The name of this plan, E Ō I Nā Leo, and its translation was provided by noted Native Hawaiian scholar Larry Kimura, Associate Professor at UH Hilo. The authors express their deep gratitude for this gift.
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1 LETTER SENT VIA U.S. MAIL ANNOUNCING AVAILABILITY OF THE DRAFT MASTER PLAN FOR REVIEW

September 10, 2021

Subject: Public Draft Master Plan for the University of Hawai‘i Maunakea Lands; E Ō I Ka Leo

Dear Stakeholder:

The University of Hawai‘i (UH) requests that you review and provide input and comments on the subject public draft of the Master Plan for the University of Hawai‘i Maunakea Lands; E Ō I Ka Leo (Listen to the Voice). In accordance with its name, this draft has been developed with input from a wide sample of stakeholders and the University of Hawai‘i (UH) now seeks feedback from the broader community. UH is accepting input on this draft plan through October 26, 2021. You may access and comment on the draft plan by visiting https://hilo.hawaii.edu/maunakea/.

Input is welcome on any section or topic of the draft Master Plan. Once you access the link above, details will be provided on the website on how to submit your comments via the online commenting tool, U.S. mail, voicemail, or online general comment form.

You are also invited to attend our virtual public forum, the details of which, including how to submit questions, will be announced at a later date.

We appreciate your input and views on this draft Master Plan as it undergoes continuing review, we look forward to receiving comments and recommendations via the methods outlined above. This plan will be updated to address the input and comments received and will then be considered in its “pre-final” form by the Board of Regents (BOR). Once approved by the BOR, the final plan will guide decisions regarding land uses on the mountain for the next twenty years.

Again, we encourage you to access and comment on the draft plan by visiting https://hilo.hawaii.edu/maunakea/.

Thank you for your consideration and participation.

Me ka‘oia‘i‘o,

Gregory C Chun

Gregory Chun, Ph.D.
Executive Director, UH Hilo Center for Maunakea Stewardship

640 North A‘ahilului Place
Hilo Hawai‘i 96720
(808) 933-0734
cms@hilo.hawaii.edu
## LIST OF U.S. MAIL LETTER RECIPIENTS

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3 EMAIL SENT ANNOUNCING AVAILABILITY OF THE DRAFT MASTER PLAN FOR REVIEW

Dear Stakeholder:

The University of Hawai‘i (UH) requests that you review and provide input and comments on the subject public draft of the Master Plan for the University of Hawai‘i Maunakea Lands: E Ō I Ka Leo (Listen to the Voice). In accordance with its name, this draft has been developed with input from a wide sample of stakeholders, and UH now seeks feedback from the broader community. UH is accepting input on this draft plan through October 26, 2021. You may access and comment on the draft plan by visiting https://maunakea.konveio.com/.

Input is welcome on any section or topic of the draft Master Plan. Once you access the link above, details will be provided on the website on how to submit your comments via the online commenting tool, U.S. mail, voicemail, or online general comment form.

You are also invited to attend our virtual public forum, the details of which, including how to submit questions, will be announced at a later date.

We appreciate your input and views on this draft Master Plan as it undergoes continuing review and we look forward to receiving comments and recommendations via the methods outlined above. This plan will be updated to address the input and comments received and will then be considered in its “pre-final” form by the Board of Regents (BOR). Once approved by the BOR, the final plan will guide decisions regarding land uses on the mountain for the next twenty years.

Again, we encourage you to access and comment on the draft plan by visiting https://maunakea.konveio.com/.

Thank you for your consideration and participation.

Me kaʻoiaʻiʻo,

Gregory Chun, Ph.D.
Executive Director, UH Hilo Center for Maunakea Stewardship

(Sent September 13, 2021 from mkmplan@hawaii.edu)
## LIST OF EMAIL RECIPIENTS

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**Press Release #2, on 10/3/2021, Regarding Virtual Public Forum**

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**Press Release #3, on 10/25/2021, Regarding end of Public Comment Period**

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6 TARGETED OUTREACH LIST FOR INPUT ON THE PUBLIC DRAFT MASTER PLAN

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<td>Michael Bruno, Provost</td>
</tr>
<tr>
<td>Vassilis Syrmos, VP</td>
</tr>
<tr>
<td>Hawaiʻinuiākea School of Hawaiian Knowledge, Dr. Jonathan Osorio</td>
</tr>
<tr>
<td>Bonnie Irwin, UH Hilo Chancellor</td>
</tr>
<tr>
<td>UH Hilo Chancellor’s Maunakea Advisory Committee</td>
</tr>
<tr>
<td>UHH Student Association</td>
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<tr>
<td>Hawai‘i Papa O Ke Ao (HPOKA)</td>
</tr>
<tr>
<td>Hanakahi Council</td>
</tr>
<tr>
<td>Hoʻolulu Council*</td>
</tr>
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<td>Maunakea Council (Maunakea President’s System-wide Maunakea Advisory Group)</td>
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<td>UH Hilo Physics &amp; Astronomy Dept.</td>
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<td>MKO Staff*</td>
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<td>MKOs (UH and Non-UH) Open Forum</td>
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<td>Tom Soifer/Bob Kirshner (TIO Board Members)</td>
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<td>Sen. Lorraine Inouye</td>
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<td>Rep. Tarnas*</td>
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<td>Mayor Mitch Roth &amp; Selected Cabinet Members</td>
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<th>Federal Agencies</th>
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<td>DLNR-Division of Forestry and Wildlife, Hawai‘i Island</td>
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<td>Mauna Kea Forest Restoration Project</td>
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<tr>
<td>E. Kalani Flores</td>
</tr>
<tr>
<td>Anonymous</td>
</tr>
<tr>
<td>Pua Kanahele*</td>
</tr>
<tr>
<td>B. Pualani Case*</td>
</tr>
<tr>
<td>Noe Noe Wong Wilson*</td>
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<tr>
<td>Kealoha Pisciotta**</td>
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<tr>
<td>Clarence “Ku” Ching*</td>
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<td>Chase Kahookahi Kanuha*</td>
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<tr>
<td>Joshua Lanakila Mangauil*</td>
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<td>Paul Neves*</td>
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<td>Community Members/Organizations</td>
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<td>Anonymous Native Hawaiian Community Member*</td>
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<td>Kupu</td>
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<tr>
<td>Mānā Up*</td>
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<td>Omidyar Fellows*</td>
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<td>Protect Mauna Kea Organization***</td>
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<td>PUEO*</td>
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<td>Sovereign Council of Hawaiian Homestead Associations (SCHHA)</td>
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<tr>
<td>Sultan Ventures*</td>
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Notes:
*No response was received to request to meet.
**Individual/organization declined to meet.
***Email was undeliverable.
7 KONVEIO WEBSITE GOOGLE ANALYTICS REPORT

The following pages provides a summary of the traffic to the https://maunakea.konveio.com/ website during the Draft Master Plan comment period. The report indicates that the outreach efforts summarized above were effective in informing the community about the opportunity to review and comment on the Draft Master Plan.
### Audience Overview

**Overview**

- **Users**: 3,979
- **New Users**: 3,979
- **Sessions**: 5,443
- **Pageviews**: 13,333
- **Avg. Session Duration**: 00:02:35
- **Pages / Session**: 2.45

#### Top Channels

- **Referral**: 38.3%
- **Direct**: 17.4%
- **Social**: 36.2%
- **Email**: 3.6%
- **Organic Search**: 1.4%

#### Country Users % Users

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<td>Mexico</td>
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<td>Japan</td>
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#### City Users % Users

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<tr>
<td>Hilo</td>
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<tr>
<td>Waimea</td>
<td>69</td>
<td>1.67%</td>
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</table>
8 INPUT RECEIVED VIA KONVEIO WEBSITE COMMENTING TOOL
The name of this plan, E Ō I Ka Leo, and its translation was provided by noted Native Hawaiian scholar Larry Kimura, Associate Professor at UH Hilo. The authors express their deep gratitude for this gift.
#001

Posted by Jennifer Shiiba on 10/26/2021 at 3:28pm [Comment ID: 488]
Agree: 0, Disagree: 0

I support Mauna Kea’s mana and home as a sacred place for Kanaka Maoli and native species to thrive for generations to come.

#002

Posted by shennessey on 10/25/2021 at 9:31pm [Comment ID: 369]
Type: Suggestion
Agree: 0, Disagree: 0

In 'ōlelo Hawai‘i, "E Ō I Ka Leo" implies that the voice you are "listening to" is singular – that there is only one voice worth hearing. ("E Ō I Nā Leo" would mean "listen to the voices.") It was made abundantly clear that UH is only listening to one voice--its own--when it silenced the public from commenting or providing oral testimony during the Maunakea Master Plan virtual forum on October 6. With limited avenues for the public to provide a voice, it was clear that this was just a public relations stunt.

#003

Posted by mcpeekm on 10/06/2021 at 11:27am [Comment ID: 107]
Type: Correction
Agree: 0, Disagree: 0

Listen to the voice is really not very accurate as many Hawaiians...the host culture has made their voice known against all and Amy construction atop Mauna Kea. 10,000+ Hawaiians and Community members have voiced their opinion. Queen Lili‘uokalani said The voice of the people is the Voice of God.

#004

Posted by Anonymous on 10/20/2021 at 4:28am [Comment ID: 201]
Type: Correction
Agree: 0, Disagree: 0

NONE OF THIS SHOULD HAPPEN, STOP DESTROYING SACRED LANDS YOU DISGUSTING EXCUSES OF HUMAN BEINGS. YOU DO NOT HAVE THE RIGHT TO DESTROY HISTORY AND CULTURE LIKE YOU HAVE FOR THE PAST 60 YEARS

#005

Posted by dgarcia2727 on 10/26/2021 at 7:38am [Comment ID: 408]
Type: Suggestion
Agree: 0, Disagree: 0

You have co-opted the use of the Native Hawaiian language to further your desecration and colonial control over Mauna Kea. You claim that your goal is to "Listen to the Voice" while actively ignoring the thousands of land defenders that showed up on the Mauna in 2014, 2015, and 2019, as well as thousands of petition signatures in
opposition to TMT, which is still considered in your plan. I recommend that you first listen to the majority of Native Hawaiians that have been showing up since 1968 against your claim to stewardship of land that does not belong to you.
Part 1: Foundations
#006

Posted by Isa Arriola on 10/21/2021 at 5:00am [Comment ID: 210]
Type: Correction
Agree: 0, Disagree: 0
Pot fabot stop the desecration of Mauna Kea, prioritizing the needs of Kanaka Maoli needs to take precedence over these plans.

#007

Posted by Michael Kahalehua on 09/13/2021 at 12:12pm [Comment ID: 39]
Type: Suggestion
Agree: 0, Disagree: 0
Aloha and e kala mai. My ohana is against any type of building on Mauna Kea. That is sacred land, and does not need any telescopes or such modern things
E Ō I KA LEO (LISTEN TO THE VOICE)

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**ACRONYMS AND ABBREVIATIONS**

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<thead>
<tr>
<th>Acronyms</th>
<th>Meaning</th>
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<td>Board of Land and Natural Resources</td>
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<tr>
<td>BOR</td>
<td>UH Board of Regents</td>
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<td>CDUA</td>
<td>Conservation District Use Application</td>
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<tr>
<td>CDUP</td>
<td>Conservation District Use Permit</td>
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<tr>
<td>CFHT</td>
<td>Canada-France-Hawaii Telescope</td>
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<tr>
<td>CMP</td>
<td>Comprehensive Management Plan&lt;sup&gt;1&lt;/sup&gt;</td>
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<tr>
<td>CMS</td>
<td>Center for Maunakea Stewardship</td>
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<td>CRMP</td>
<td>Cultural Resources Management Plan</td>
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<td>CSO</td>
<td>Caltech Submillimeter Observatory</td>
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<td>CMS</td>
<td>Center for Maunakea Stewardship</td>
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<tr>
<td>DESI</td>
<td>Dark Energy Spectroscopic Instrument</td>
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<tr>
<td>DHHL</td>
<td>Department of Hawaiian Home Lands</td>
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<tr>
<td>DLNR</td>
<td>Department of Land and Natural Resources</td>
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<tr>
<td>DOFAW</td>
<td>Division of Forestry and Wildlife (DLNR)</td>
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<tr>
<td>EA</td>
<td>Environmental Assessment</td>
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<tr>
<td>EDD</td>
<td>Environmental Due Diligence</td>
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<td>EIS</td>
<td>Environmental Impact Statement</td>
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<tr>
<td>EISPN</td>
<td>EIS Preparation Notice</td>
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<tr>
<td>ESA</td>
<td>Environmental Site Assessment</td>
</tr>
<tr>
<td>General Lease</td>
<td>General Lease S-4191 from BLNR to UH, which expires December 31, 2033</td>
</tr>
<tr>
<td>GRACES</td>
<td>Gemini Remote Access to CFHT ESPaDOnS Spectrograph</td>
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<td>GRP</td>
<td>Grouted rubble pavement</td>
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<td>HAR</td>
<td>Hawai‘i Administrative Rules</td>
</tr>
<tr>
<td>HDOT</td>
<td>Hawai‘i Department of Transportation</td>
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<td>HECO</td>
<td>Hawaiian Electric Company</td>
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<tr>
<td>HRS</td>
<td>Hawai‘i Revised Statutes</td>
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<tr>
<td>HVAC</td>
<td>Heating, ventilation, and air conditioning</td>
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<tr>
<td>IfA</td>
<td>Institute for Astronomy</td>
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<tr>
<td>‘Imiloa</td>
<td>‘Imiloa Astronomy Center of Hawai‘i</td>
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<tr>
<td>IR</td>
<td>Infrared</td>
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<tr>
<td>IRTF</td>
<td>NASA Infrared Telescope Facility</td>
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<tr>
<td>JCMT</td>
<td>James Clerk Maxwell Telescope</td>
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</tbody>
</table>

<sup>1</sup> Unless stated otherwise, the term “CMP,” as used in this document, is inclusive of (i) the *Mauna Kea Comprehensive Management Plan, UH Management Areas* dated April 2009; (ii) the *Natural Resources Management Plan for the UH Management Areas on Mauna Kea, A Sub-Plan of the Mauna Kea Comprehensive Management Plan* dated September 2009; (iii) *A Cultural Resources Management Plan for the University of Hawai‘i Management Areas on Mauna Kea, Ka‘ohe Ahupua‘a, Hāmākua District, Hawai‘i Island, State of Hawaii, TMK: (3) 4-4-015: 09, 12, A Sub-Plan for the Mauna Kea Comprehensive Management Plan* dated October 2009; (iv) the *Public Access Plan for the UH Management Areas on Mauna Kea* dated January 2010; and (v) the *Decommissioning Plan for the Mauna Kea Observatories, a Sub-Plan of the Mauna Kea Comprehensive Management Plan* dated January 2010.
STOP further damage of Indigenous lands and people. End further land “development,” which actually only causes further damage. Native Hawaiians do not want further damage to Hawaii.
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Full Form</th>
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<tbody>
<tr>
<td>KKM</td>
<td>Kahu Kū Mauna</td>
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<tr>
<td>MKMB</td>
<td>Mauna Kea Management Board</td>
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<td>MKO</td>
<td>Maunakea Observatories</td>
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<td>MKSR</td>
<td>Mauna Kea Science Reserve</td>
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<td>MKSS</td>
<td>Maunakea Observatories Support Services</td>
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<tr>
<td>MOA</td>
<td>Memorandum of Agreement</td>
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<td>MSE</td>
<td>Maunakea Spectroscopic Explorer</td>
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<tr>
<td>MUTCD</td>
<td>Manual on Uniform Traffic Control Devices</td>
</tr>
<tr>
<td>NAR</td>
<td>Natural Area Reserve (DLNR)</td>
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<td>NOI</td>
<td>Notice of Intent</td>
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<tr>
<td>NPDES</td>
<td>National Pollutant Discharge Elimination System</td>
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<tr>
<td>NRMP</td>
<td>Natural Resources Management Plan (a sub-plan of the CMP)</td>
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<tr>
<td>OCCL</td>
<td>Office of Conservation and Coastal Lands (DLNR)</td>
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<tr>
<td>OHANA</td>
<td>Optical Hawaiian Array for Nanoradian Astronomy</td>
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<td>OMKM</td>
<td>Office of Maunakea Management</td>
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<tr>
<td>PV</td>
<td>Photovoltaic</td>
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<tr>
<td>SDP</td>
<td>Site Decommissioning Plan (a sub-plan of the CMP)</td>
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<tr>
<td>SHPD</td>
<td>State Historic Preservation Division (DLNR)</td>
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<tr>
<td>SMA</td>
<td>Submillimeter Array</td>
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<tr>
<td>TMK</td>
<td>Tax Map Key</td>
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<tr>
<td>TMT</td>
<td>Thirty Meter Telescope</td>
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<td>UC</td>
<td>University of California</td>
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<tr>
<td>UH</td>
<td>University of Hawai‘i</td>
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<tr>
<td>UH Hilo</td>
<td>University of Hawai‘i at Hilo</td>
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<tr>
<td>UKIRT</td>
<td>United Kingdom Infrared Telescope</td>
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<tr>
<td>VIS</td>
<td>Visitor Information Station</td>
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<tr>
<td>VLBA</td>
<td>Very Long Baseline Array</td>
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<tr>
<td>VPA</td>
<td>Vice President for Administration</td>
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</tbody>
</table>
THE UNIVERSITY OF HAWAI‘I COMMITMENT TO COLLABORATIVE MAUNAKEA STEWARDSHIP

Aloha:

In preparing this Master Plan, we have been enlightened by the insights of Native Hawaiian cultural experts, humbled by the criticisms from disappointed and angry community members as well as past audits, and blessed with the knowledge from painful lessons learned from prior steps. We have been informed through community engagement during our decade-long rulemaking process and initiatives such as Envision Maunakea.

Consequently, in preparing this Master Plan, we have paid special attention not only to the astronomy programs on which the University of Hawai‘i (UH) focused its attention for the first three decades of our stewardship, but also to the place of honor and renown that Maunakea has in the history, culture, and hearts of the Hawaiian people.

This Master Plan incorporates this broadened focus and the major changes UH has made over the past two decades in the way we manage the Maunakea lands we are honored to steward. It differs markedly from the Mauna Kea Science Reserve Master Plan (2000) that it supersedes. Key guidance in place today, was absent when the previous Master Plan was prepared, including—the Mauna Kea Comprehensive Management Plan (CMP) and its subplans and the Maunakea administrative rules entitled Public and Commercial Activities on Mauna Kea Lands (HAR Chapter 20-26). These will better equip the managers to steward Maunakea in a way that balances the impacts of astronomy on cultural practices and the environment while amplifying community, educational, and research benefits for all.

From what we have heard from the community, it is clear that we have more work to do in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as we make decisions. In accordance with guidance from the Board of Regents, in 2019 through Resolution 19-03, the UH was directed to reorganize the existing Maunakea management structure and to address other important outstanding issues. On-the-ground authority now resides with the Center for Maunakea Stewardship (CMS) based on Hawai‘i Island. The restructuring, which covers all operating and advisory units associated with Maunakea, established clearer lines of accountability and improved transparency within UH’s management operations. The restructuring was shaped by input received during more than 90 meetings with advisory...
For decades, Kanaka Maoli have been advocating for the protection of Mauna Kea. In the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to the top to stop the desecration of their sacred mountain. Take care of what’s here on this planet before trying to explore what’s beyond. It is sacred land, respect it.

UH claims to have been informed by Hawaiian cultural experts, but clearly you have not been listening to the voices of the people who want no more construction Mauna Kea. Why should we trust the "stewardship that has damaged so much of the delicate ecosystem and has torn down places of honor?"

Bad choice of words its an attempt to invalidate any comments that don't agree with you by making it seem emotional.

The world will look to UH/Mauna Kea as a beacon of sustainable thinking as it brings into focus the two “eyes” of indigenous and industrial knowledge. One way to appreciate what each “eye” sees is by considering this:

Mathematics shows us that to define something is to confine it. Define and confine are two words for the same action. When we draw a boundary around something to distinguish it from what it’s not, we confine it within our boundary. This understanding can serve as the foundation for a question-based dialog between Western and Hawaiian knowledge systems.

How has Western science defined/confined the cosmos?
How has Hawaiian science defined/confined the cosmos? In light of each science’s limitations, how might each be helpful to the other?

We can deepen this dialog by looking at the points where indigenous and industrial cultures went their separate ways. One critical point is where metallurgy developed. This powered a quantum leap in tool-making.

The geological absence of metal in Polynesia raises a question: What form does inquiry take in a culture where metallurgy cannot be developed because the only durable tool-making materials are stone, bone, coral and shell?

The metal tools developed by Europeans include swords, plows, hammers and nails, along with the cog-and-wheel technologies that enabled combustion engines to be developed. These tools allowed humans to coerce nature into doing their bidding. Human success at this has come at an unexpected cost. We industrials are now stunned to find that we have somehow coerced nature to the point of climate change.

In the face of this crisis, more and more industrial and indigenous scientists are dialoging, in the hope of finding sustainable solutions. As UH/Mauna Kea increasingly participates in this dialog, I’d like to suggest some questions to deepen the dialog.

For example: In places like Polynesia where industrial coercion of nature has not been an option, has indigenous observation of nature evolved into something like an instrument?

We may not have a definitive answer to this question, but we do know this: Hawaiian observation of nature has been effective enough for Hawaiians to navigate thousands of miles of open ocean with no need of the maps or technologies that industrial science claims are necessary. We also know that Hawaiians regard all of nature as a map. This has allowed them to derive navigational guidance from stars, driftwood, clouds, seaweed, winds, birds, weather, the smell, taste and temperature of the ocean, interference patterns on the sea surface, the olfactory sense of an on-board pig, and the navigator’s testicles. These navigational inputs are then integrated into a picture of their canoe’s position at sea.

This raises a question: Why did Western science assume that map-technology is necessary for navigating open ocean? The answer is that several centuries ago Western science made a mistaken assumption that wasn’t known to be mistaken until computer simulations of whole systems (including oceans) revealed the mistake. The assumption was that an ocean is random and disorderly.

On the basis of this assumption, Western scientists further assumed that the only way to navigate open ocean is to superimpose a man-made order onto it. So they devised the longitude-latitude grid, along with maps and technologies to navigate this grid. Ever since, Westerners have been navigating the grid instead of the ocean. In contrast, Hawaiians navigate the ocean.

This raises a question that may further deepen the dialog between indigenous and
industrial scientists:

On what basis has Western science defined order?

My list of questions goes well beyond this, as does my concern for our planet. If I may volunteer on behalf of the UH/Mauna Kea sustainability dialog, I’d be honored. If you need to see my credentials, I can provide them: X

Mahalo for your attention.
Harriet Witt, X

#013

Posted by John on 10/26/2021 at 10:15am [Comment ID: 430]
Type: Suggestion
Agree: 0, Disagree: 0
Look we have to get pass this idea of “Gods”, Deities, The Toothfairy and Santa Claus and educate the general public on the Truth… TMT will bring jobs and much needed income to Hawaii and the Pacific Islanders. We need to spell out exactly how much money will be lost. Also the educational opportunities for those attending UH. We can NOT continue to live in the past where we “lock up” people who say there is a Universe, the earth is round, witches are not real, etc. It is just plain ignorant and unhelpful!!

#014

Posted by Abby on 10/20/2021 at 1:42am [Comment ID: 191]
Type: Correction
Agree: 0, Disagree: 0
If you were really listening to Native Hawaiians then you wouldn’t be pushing forward with your plan at all. Don’t say that you’re listening to and working with natives when you’re still only pushing your agenda.

#015

Posted by pahnelopi G mckenzie on 10/25/2021 at 9:11am [Comment ID: 288]
Agree: 0, Disagree: 0
I hear the honor you offer to the voices of the Hawaiian community and opposition. Yet i seems as you are not listening because the people shared they do not want TMT built and this is still on the table. I know you say lots of people want TMT but that is few in compared of Kanaka Maoli that clearly have stated never. TMT needs to be off the plan as far and Mauna management

#016

Posted by Anonymous on 10/13/2021 at 5:26am [Comment ID: 172]
Type: Suggestion
For decades Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea. There have been mass demonstrations in Hawaii and abroad in opposition of the TMT. Thousands have marched and occupied the mountain to stop its desecration.

#017

Posted by dgarcia2727 on 10/26/2021 at 7:52am [Comment ID: 409]
Type: Correction
Agree: 0, Disagree: 0

UH, the State of Hawaii, and the United States have no legal jurisdiction over Mauna Kea or any "ceded"/stolen lands in the Kingdom of Hawaii. Therefore, you cannot claim stewardship over Mauna Kea or any stolen lands within the Kingdom of Hawaii.

#018

Posted by Jonathan K Osorio on 10/09/2021 at 8:34am [Comment ID: 133]
Agree: 0, Disagree: 0

The balancing of community and astronomy interests and needs cannot be the only outcomes. The needs of the mountain, of the ʻāina are no less significant and real

#019

Posted by Anne Friedman on 10/26/2021 at 5:32pm [Comment ID: 490]
Agree: 0, Disagree: 0

The entire opening section is disingenuous as it explains how you’ve “listened” to Native and Indigenous voices without actually listening to them. There is no way to accomplish this project without desecrating a sacred site. It shouldn’t be done and can’t be undone. Don’t do it.

#020

Posted by Lehuakona on 10/25/2021 at 8:01pm [Comment ID: 346]
Type: Correction
Agree: 0, Disagree: 0

It is always easy for opponents to accuse an agency of failures in Seeking, considering, and acting on community input, particularly if the actions are not as the complainant wishes. From my perspective over a decade in observation, there has been strong efforts to reach out to communities, and a magnification of that effort by these groups themselves to ensure that their viewpoints are heard and narrowly focused.

#021

Posted by Lehuakona on 10/25/2021 at 7:54pm [Comment ID: 345]
Type: Suggestion
Agree: 0, Disagree: 0
Please clarify what are the impacts of astronomy on cultural practices? Are you discussing negative or positive impacts from what aspects of astronomy? The Hawaiian culture depended on the timing of astronomical events for cultural practices.
To be balanced, please then discuss the impact of cultural operations on astronomy. For instance, during the TMT demonstrations, long planned observations, such as speed of stars orbiting black holes could not be made, and science forever lost that data.

#022

Posted by **dgarcia2727** on **10/26/2021** at **8:41am** [Comment ID: 412]
*Type: Suggestion*  
*Agree: 0, Disagree: 0*

The mismanagement of Mauna Kea was more than just "missteps" Take accountability for the decades of harm and desecration to Mauna Kea and the Native Hawaiian people. This has been an issue since 1998 when an audit claimed that “little has been” to protect Mauna Kea’s natural resources which are deeply connected to Native Hawaiian livelihood.  
https://vimeo.com/247038723  

#023

Posted by **Anonymous** on **10/13/2021** at **11:40am** [Comment ID: 177]
*Type: Suggestion*  
*Agree: 0, Disagree: 0*

The indigenous people of Hawai‘i have an internationally recognized right to self determination, which includes land management. With that right Kanaka Maoli have vigorously denied and opposed any construction of the TMT on Mauna Kea.

#024

Posted by **Casey Kekiwi** on **10/12/2021** at **7:23am** [Comment ID: 157]
*Type: Suggestion*  
*Agree: 0, Disagree: 0*

The voice of the Native people need to be heard. Representation matters, who’s sitting at the decision making tables matter, voices of the “minority”, who is actually the majority matters!

#025

Posted by **Amber Espinosa-Jones** on **10/26/2021** at **6:13pm** [Comment ID: 491]
*Type: Suggestion*  
*Agree: 0, Disagree: 0*

There is no “Envision Maunakea” initiative without the full consent of Native Hawaiian people’s, the indigenous caretakers of the land. The University needs to actively decolonize its practices in 2021 and renounce support of the TMT.
If you truly consulted with Native Hawaiians, why is this project still moving forward despite the protests of those who hold these land sacred? Perhaps throw the whole plan out.
groups, staff, faculty, community members, Maunakea observatories, elected representatives, government agencies, and partners. A concerted, but ultimately unsuccessful, effort was made to discuss the restructuring alternatives with Hawaiʻi Island kiaʻi.

Our new CMS and the entire UH are fully committed to continuing this journey of deep listening, particularly in the Native Hawaiian community, as we make management and land use decisions. Our Master Plan and concurrent updates to the CMP, which broadened our focus with its cultural resource, natural resource, public access, and decommissioning subplans, are critical steps in demonstrating our commitment to continuous improvement and collaborative stewardship of Maunakea.

Efforts already underway to elevate culture and education as key priorities alongside astronomy and land stewardship have begun with the assignment of responsibility to the ʻImiloa Astronomy Center of Hawaiʻi. ʻImiloa is developing additional necessary and appropriate educational programming for those who work on and visit Maunakea and improving the interpretive experience at the Maunakea Visitor Information Station at Halepohaku.

With the work and aid of Rangers, natural and cultural resource experts, and community volunteers, such as those who have served on the Maunakea Management Board, Kahu Kū Mauna Council, and the Environment Committee, we have addressed and corrected nearly all the deficiencies that were identified in past audits and reviews, and UH is in the process of addressing those that remain such as updating plans, improving our education programs, and actively decommissioning telescopes from the mauna. The Department of Land and Natural Resources’ relatively recent independent evaluation reported that Maunakea and its natural and cultural resources are now among the best managed and protected lands in the State. The awards that we have received from the Historic Hawaiʻi Foundation and the Kona Kohala Chamber of Commerce are further affirmation of the substantial progress UH has made over the last 20 years since we began to respond in earnest to the criticisms of our early stewardship. With the approval of the Maunakea administrative rules and the internal management reorganization, UH is better prepared today to care for Maunakea.

UH remains committed to ensuring that our astronomy program is one of the best in the world, offering world-class opportunities for our students and faculty while driving economic activity that helps diversify Hawaiʻi’s economy and employment opportunities. With significant presence on three islands, UH’s Institute for Astronomy is one of the nation’s largest and finest university astronomy programs, a source of pride to Hawaiʻi, because the astronomy facilities on Maunakea stand as the most respected and productive in the world.

We believe that the lessons we have learned and the strides we have made uniquely position UH to provide balanced stewardship of Maunakea lands. As such, we are
Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings, signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea. The way to work with Native Hawaiian people is to NOT build the TMT. Period.

For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the TMT on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of their sacred mountain. This land, legally belongs to the Kanaka Maoli and therefore they should be the ONLY voices at the table getting to make decisions about this attempted destruction.

The way this reads, the way it is stated... I believe is what is creating much conflict in all issues related to UH managing land at the Mauna and Native Hawaiians not liking how things are done....what if UH wasn't centering themselves as the institution whose reputation and legacy was going to to be continued? What if this was true partnership? Most progressives at this point in time - including most university students- are coming to realize that indigenous peoples are the best land managers and conservationists. They are also the original biologists, navigators, and astronomers. Let them co-lead! This isn't about UH - this is about Hawaii, and Hawaiians, and unique ecology of our part of the South Pacific. Partnership. True partnership - co-lead all of this. Place the Hawaiians at the center of the science. Place their children starting in kindergarten at the center of this astronomy economy.

Imiloa could become the base point by which education and access 'tickets' for tourists
and non-Hawaiian residents could be distributed. Look into how Catalina Island Conservancy uses their town base office as education, registration for trail access, gift store, restaurant... There would need to be west side/Kona side site established to manage tourist traffic coming from that side.... All of this would help manage numbers of people and peak traffic, enforce a baseline level of education before accessing the Mauna, and eliminate the need for increasing the the visitor center operations at Mauna Kea. (Hawaiian native residents I leave to their own input for how they would play into managed access)

#031

Posted by jmakyoku on 10/26/2021 at 7:20pm [Comment ID: 498]
Type: Correction
Agree: 0, Disagree: 0

This paragraph privileging economic profit directly conflicts with your alleged prioritization of Maunakea in the previous paragraph. While you're pursuing a race to be the technologically best and most productive profit engine, your arrogance and hunger for power is clearly felt by the people you're sacrificing, misrepresenting, and silencing.

#032

Posted by Veronica Ohara on 09/13/2021 at 11:22am [Comment ID: 34]
Agree: 0, Disagree: 0

As a Kanaka Maoli I am greatly relieved to see that the UH is committed to astronomy on Maunakea. At this time there are college students and high school students in Hawaii, and of Hawaiian ancestry who are interested in pursuing astronomy and working at our observatories. Hawaii's astronomy program has led in scientific discoveries for over 30 years, the program was built out of the destruction of Hilo by the tsunami. Somehow we found our way, without much help, sheer determination and the belief that we could be more than a tourist destination and a military facility. I am older than astronomy on Maunakea and I appreciate all the efforts to build a scientific center in Hawaii. My hope is this will continue under dedicated leadership from the Hawaiians and scientific community.

#033

Posted by MDenepe on 10/26/2021 at 7:34pm [Comment ID: 504]
Type: Correction
Agree: 0, Disagree: 0

UH & CMS claim they are fully committed to continuing this journey of deep listening, especially to kanaka maoli, if this is true then the MKSR land would be returned to the rightful stewards of the sacred Mauna, the kanaka maoli. E O I Ka Leo- listen to the voice when they tell you it is ceded crown land & to give the land back.
And we will know that you really care about Mauna Kea when you cancel the TMT

Posted by Abby on 10/20/2021 at 1:49am [Comment ID: 192]
Type: Suggestion
Agree: 0, Disagree: 0
This is towards the University making land management decisions, the highlighter tool isn't accurate. You should not be making land management decisions at all. If you really want to listen and work with Natives, put that land back in their stewardship. You have a golden opportunity to show the world a better way to accomplish scientific advancement without destroying cultural land. If you cannot achieve your goals without destruction then that science is not ready to be explored; if the technology causes harm it shouldn't be used.

Posted by Cassidy Bennett on 10/25/2021 at 1:24pm [Comment ID: 305]
Type: Correction
Agree: 0, Disagree: 0
There has not been "balanced and beneficial land use" on Mauna Kea, both because it has been harmful and because it is on stolen land.

Posted by Jonathan K Osorio on 10/09/2021 at 12:54pm [Comment ID: 140]
Agree: 0, Disagree: 0
See previous comment

Posted by Abby on 10/20/2021 at 1:52am [Comment ID: 193]
Type: Correction
Agree: 0, Disagree: 0
They aren't doing a good job at land preservation anywhere else so that isn't much of an accomplishment, definitely not something to be proud of.

Posted by dgarcia2727 on 10/26/2021 at 9:27am [Comment ID: 418]
Type: Suggestion
Agree: 0, Disagree: 0
The people you owe loyalty and commitment to are Native Hawaiians which lands you
are working upon and profiting off of.

#040

Posted by Jonathan K Osorio on 10/09/2021 at 12:41pm [Comment ID: 137]
Agree: 0, Disagree: 0
Ultimately, the University and all of these Mauna Kea agencies will need to address and answer the question of why that effort was unsuccessful and what it means. It is also not true that the entire UH community is committed to listening

#041

Posted by dgarcia2727 on 10/26/2021 at 9:16am [Comment ID: 414]
Agree: 0, Disagree: 0
The rangers on Mauna Kea have been known to brutalize and harass Native Hawaiian land defenders while desecrating cultural sites. There is no aid these rangers provide other than more violence to Native Hawaiians.
http://kahea.org/blog/10-to-1-opposed-and-they-still-passed-it

#042

Posted by Kahea on 10/13/2021 at 8:59am [Comment ID: 175]
Type: Correction
Agree: 0, Disagree: 0
The Native Hawaiian community has held mass demonstrations both on the Mauna and nationwide, displaying our opposition to the building of TMT. The Kingdom of Hawai‘i was never legally annexed to the United States, meaning that if the TMT were to be built, it would be done so on STOLEN Hawaiian lands; a Land that Kānaka Maoli consider being especially sacred. If you were truly listening to us (Native Hawaiians) as you have stated, then this document would not exist because all efforts to build the TMT would have been put to an end years ago.

#043

Posted by jmakyoku on 10/26/2021 at 7:02pm [Comment ID: 497]
Type: Correction
Agree: 0, Disagree: 0
I criticize the very role of UH as the authority to make such decisions about how to use land it stole

#044

Posted by chuckgrigsby on 09/14/2021 at 1:07pm [Comment ID: 48]
Type: Suggestion
Agree: 0, Disagree: 0
For those of us who do not speak Hawaiian, please tell us what kia'a means.
It is 2021, with the CMP & UH having a bad track record with kanaka maoli and as so called stewards of ceded crown land yet the UH is COMMITTED to ensuring that the astronomy program is one of the best in the world at the expense of continued extractive and settler colonialism, erasure of kanaka maoli, further desecration of sacred land, & excessive police force when kapuna protect their sacred aina. If the UH truly listened as they claim in this DRAFT, then the UH would divest all involvement when it comes to ceded crown lands.

These are good things, and it is clear that none of these efforts would be made by the university or a technology consortium if it were not for the telescopes. That continually reminds us aloha 'āina of the tradeoffs., and puts TMT squarely in the calculation.
seeking a new land authorization that will, if granted, allow UH to continue along our path of continuous improvement in collaborative stewardship and management while supporting a world-class astronomy program, with fewer astronomy facilities, in a manner that honors the mauna.

If UH is removed from our overall stewardship responsibilities, whatever entity assumes control may adopt a different plan with different priorities and goals. In that case, until a new steward is selected, and a new plan adopted, we are confident that this Master Plan will continue to guide balanced and beneficial land use decisions on Maunakea, just as the CMP will continue to guide management decisions until such time as that plan may be replaced. UH is hopeful that we can maintain a role in ensuring a respectful astronomy program with the excellence that honors Maunakea.

In closing, we wish to thank the many people who have helped and continue to help us fulfill our responsibilities to Maunakea. They include the Rangers who protect everyone’s safety on the mountain, the CMS staff and many volunteers who have helped to restore and preserve the environment, the researchers who continue to expand our vision of the universe, and our faculty, students, and alumni, especially Native Hawaiians, who have all taught us important lessons. We appreciate the voices of those within the UH and in the community, including those who have disagreed with our decisions and positions; even when we are not aligned, we learn from their beliefs and their passion. Finally, we are grateful to the many stakeholders who have shared their input in preparing this Master Plan and we look forward to their continuing engagement in its implementation.

UH stands firmly behind the August 24, 2017, Board of Regents’ resolution and UH’s “commitment to the collaborative stewardship of Maunakea’s cultural, natural, educational and scientific resources, and … to move forward to collaboratively build a global model of harmonious and inspirational stewardship that is befitting of Maunakea.”

Sincerely,

Randolph G. Moore
Chair, Board of Regents

David Lassner
President
#047

Posted by CP on 10/26/2021 at 8:23pm [Comment ID: 517]
Type: Suggestion
Agree: 0, Disagree: 0
This final number needs broad agreement. 9 is better than 14. But this decision needs to be agreed upon. Adding TMT site 13, the extra road and expanding beyond the current developed concentration is a very bad idea.

#048

Posted by Veronica Ohara on 09/13/2021 at 11:29am [Comment ID: 35]
Agree: 0, Disagree: 0
The UH should not be removed from overall stewardship, this would be most counter productive. The Malama Maunakea Resoultion by the UH Board of Regents has made promises that must be kept. Most importantly it promised to advocate for the Hawaiian students, to give us a chance towards higher education, to support us in STEM fields. Secondly there was a promise to return land that was not being used in the Maunakea Scientific Reserve/Astronomy Precinct. This is a helpful measure to address the on going debate about "land" in Hawaii. Only the UH can assure us that proper care will be taken of historic properties "in situ", together with the proper agencies ancient Hawaiian sites can be cared for. The UH can work with the existing observatories to make sure stewardship remains at the highest level.

#049

Posted by Cassidy Bennett on 10/25/2021 at 1:24pm [Comment ID: 306]
Type: Correction
Agree: 0, Disagree: 0
Again, not a continuation. Native Hawaiians have put together mass demonstrations throughout Hawai'i and abroad to demonstrate their opposition to the destruction of their sacred mountain.

#050

Posted by Cassidy Bennett on 10/25/2021 at 1:19pm [Comment ID: 303]
Type: Correction
Agree: 0, Disagree: 0
Again, not a continuation. Native Hawaiians have put together mass demonstrations throughout Hawai'i and abroad to demonstrate their opposition to the destruction of their sacred mountain.

#051

Posted by Lehuakona on 10/25/2021 at 8:11pm [Comment ID: 347]
Type: Suggestion
I really hope that this does not happen. It is important to remember that UH management not only addresses these large scale and emotionally potent balances of culture, science, recreation, education, and safety. There are also the everyday large to small scale details of logistics and complicated facility management in an extremely challenging environment. How many cars are driving up today, who is doing the laundry, is there enough food, how many rangers are on duty? Are the tourists damaging cultural resources? New management entities will lack the expertise and experience to efficiently manage this logistical support. Better to stick with the existing scheme and improve it, rather than gut it and risk failures.

#052

Posted by jmakyoku on 10/26/2021 at 7:21pm [Comment ID: 499]
Type: Correction
Agree: 0, Disagree: 0
Stop fear-mongering by implying that anything else than UH is going to be worse

#053

Posted by Brandy-Alia Serikaku on 10/25/2021 at 11:48pm [Comment ID: 398]
Type: Correction
Agree: 0, Disagree: 0
This is paila kūkae. You said you listened!? Then ʻaʻole tmt. Then take down all the observatories. Then do what you listened and show you can listen. It's pathetic and racist to see a university use ʻōlelo Hawaiʻi to promote the desecration and continued disrespect towards our Hawaiian people and land. How are you so disconnected from the reality of your mismanagement and the emptiness of your words and promises? For decades we have been saying no to the pimples on the mauna, and now you have fully stepped into your caucasity, trying to convince the people of this fake state that inSPITE of the evidence of YOUR lack of management and neglectful care of Maunakea, you deserve to manage and possess these public lands. Correction. You guys suck mau loa, your writing sux, your planning sux, your vision sux, your hearing sux, you only successful at sucking, suck this muthasuckas ʻeā lā ʻeā lā ʻeā.

#054

Posted by Alexis Cohen on 10/15/2021 at 1:25am [Comment ID: 180]
Type: Correction
Agree: 0, Disagree: 0
Thank you for opening this up to the wider community for comment. My comment is concise, clear and concrete.

There should be no more building on Mauna Kea. Period.

The Native Hawaiian people have endured decades of having what is important to them --- family, culture, home --- stripped from them.
Now is your moment to make right what was wronged. More than scientifically studying
astronomy, a move to halt all construction in perpetuity will position UH as a thought
leader who will be remembered and revered as participating in true social justice work.

The Native Hawaiian people are not the only ones who will benefit.

Indigenous people are our climate leaders.

We are careening toward ecological collapse. We --- the largest planetary collective we
--- need their miraculously preserved wisdom to be part of moving forward toward
rebalance. I am not the only one who thinks this. The United Nations wholeheartedly
agrees.


This could be your legacy. Think beyond academic programming. Be bolder and better
than whomever walked before you. Take your place on the world's stage.

All eyes are watching you.
I am rooting for you.

Sincerely,
Alexis Cohen, M.A.
New York

#055

Posted by pi314 on 10/25/2021 at 5:42am [Comment ID: 277]
Agree: 0, Disagree: 0
Without the leadership of UH, there would be no astronomy on Maunakea, and all of
the tremendous benefits would be lost. No other organization would have the
motivation to maintain astronomy on the mountain. It makes no sense to place any
other group in charge, since that will inevitably lead to the loss of capability.

#056

Posted by Cassidy Bennett on 10/25/2021 at 1:12pm [Comment ID: 300]
Type: Correction
Agree: 0, Disagree: 0
There has not been "balanced and beneficial land use" on Mauna Kea, both because it
has been harmful and because it is on stolen land.

#057

Posted by Abby on 10/20/2021 at 1:55am [Comment ID: 194]
Type: Suggestion
If your program is already one of the best in the world why do you feel the need to expand even further? I understand astronomy is important, just as any field of science. Man must explore and learn, but why do we have to rush it at the expense of those who have already had so much taken from them?

#058

Posted by Heluhelu on 10/26/2021 at 10:16am [Comment ID: 431]

Apparantly you are saying better the devil you know!! UH has proven itself to be poor stewards. There is no reason to continue with an organization that has shown itself to be untrustworthy.
E Ō I KA LEO (LISTEN TO THE VOICE)

FOREWORD

Mauna Kea, kuahiwi kū haʻo i ka mālie.

Mauna Kea, standing alone in the calm.²

This ʻōlelo noʻeau (Hawaiian proverbs and poetic sayings) recognizes and expresses the sentiment that Maunakea is a source of inspiration to many people. Steadfast always, the mauna (mountain) compels us to gaze upward in search of the unknown, thereby engendering a sense of wonderment and hope.

Maunakea is linked to the Hawaiian people, their culture, cosmology, and for some the mauna is sacred. Its resources serve as the source for a diverse range of spiritual, research, educational, recreational, and subsistence experiences that define the significance of the mauna. Its extraordinary blend of topographic and atmospheric qualities make Maunakea the most desirable location for ground-based astronomy in the northern hemisphere, and the exceptional combination of alpine and sub-alpine ecosystems in a tropical environment make it ecologically unique as well. If there is truth to the idea that the nature of “place” shapes who we are as a community, Maunakea certainly stands alone as a preeminent example of this.

The quest to understand their beginnings is an inherent drive in all humans, and it has led virtually all cultures to develop rich stories and beliefs regarding their origins. For early Hawaiians, Maunakea was the origin – the first-born island. For modern astronomy, Maunakea provides a window on the origins of the Universe. Integrating these diverse and rich perspectives is both the purpose and challenge with this plan and thus its name, E Ō I Ka Leo (Listen to the Voice), for it is in listening deeply to the many values attached to Maunakea that the knowledge of who we are will be revealed, and our humanity affirmed.

The mauna stands alone, calm in the midst of all forms of storm. It reminds us that our varied interests, as diverse and sometimes divisive as they may be, are in fact woven as lei (garland) through the innate human drive to understand our beginnings, and it is that lei which connects us all as one community.

Strengthening Connections to Place

He aliʻi ka ʻāina; he kauwā ke kanaka.

The land is a chief; man is its servant.³

Foundational values that guide UH’s stewardship and inform E Ō I Ka Leo derive from key tenets of the Hawaiian worldview, which holds that cultural and natural lands are one and the same. In this worldview, ʻāina is not a commodity but rather an esteemed elder in the Hawaiian family.

²Pukui, 1983, No. 2147
³Pukui, 1983, No. 531
Yes, one and the same for us as ʻōiwi...you are overstepping the boundaries here by universalizing our beliefs, and abusing/exploiting our connection to this place by claiming it as your own.

Desired by whom?

Your verbiage minimizes the voice and opinions of Native Hawaiians by stating that the mauna is sacred to "some". I would consider your wording of this. To the Hawaiian people, Maunakea is sacred. That is all that need be said.

If you recognize Maunakea as a sacred site and the place of origin for Native Hawaiians, why are you extending your master lease? Give the land back to Native Hawaiians by allowing them to determine their own stewardship of Mauna Kea.

Again, you have portrayed Native Hawaiian beliefs/spirituality and culture as archaic and ancient, while astronomy is "modern". The perspective you take on primary stakeholders (the Native Hawaiian community) places their history as unimportant in the modern day, but these beliefs on origin of Native Hawaiian people are not old. They are current, valid beliefs about the origin of their people.
Please stop making my people and culture sound "prehistoric" - that is racially charged. The reference to "early Hawaiians" is a poor choice of words and exposes what you think of Native Hawaiian culture and religion as something relegated to the past. Native Hawaiians are a living people. We still exist and clearly still see Mauna Kea as our origin place. Indigenous science and knowledge is valid and is telling us to take care of the earth. Mauna Kea is our sacred place of origin - we do not need your colonial science desecrating that land through mountaintop removal, in a conservation area that is home to endemic species found nowhere else on earth, to figure it out for us.

#065

Posted by Jonathan K Osorio on 10/09/2021 at 12:59pm [Comment ID: 142]
I would say that for many the mountain is sacred and you could make this admission without really damaging your principal argument. By insisting that its "some" you make your prejudices in this obvious.

#066

Posted by Crisy Hurst on 10/19/2021 at 10:34pm [Comment ID: 190]
The title of this page implores you to do exactly what is being asked. Listen to the people- The indigenous people of Hawai‘i have an internationally recognized human right to self-determination, and over the past 12 years have clearly exercised that right and said ‘A’ole (NO) to the building of TMT on Mauna Kea, which is 100% stolen Hawaiian Land.

#067

Posted by mcpeekm on 10/06/2021 at 11:36am [Comment ID: 109]
Type: Correction
For all

#068

Posted by Rachel Kameali‘i Nazara on 10/25/2021 at 10:07pm [Comment ID: 371]
Whose voice? As an ʻōiwi I am completely against this "project." I hope those of you who are reading this are listening to my voice, and prior voices that have been opposed in the past and continue to be opposed to this project today.

#069

Posted by Veronica Ohara on 09/13/2021 at 11:54am [Comment ID: 37]
Thank you for citing Pukui.

#070

Posted by **Veronica Ohara** on **09/13/2021** at **11:53am** [Comment ID: 36]

Agree: 0, Disagree: 0

As a Kanaka Maoli I firmly believe that astronomy and my culture can co-exist on Maunakea. Our most sacred chants, echo of the origins of the cosmos, even the most illustrious Mary K. Pukui acknowledges this in her book, “The Echo of Our Song”. Astronomy, especially TMT on Maunakea will allow us to literally see back to the beginning of time, before the formation of our solar system. Though I don't consider Maunakea to be the "mother of us all", I do think the atmospheric qualities available at 13,803 feet give us a rare opportunity to better understand our place in the universe. The cosmic aspects of Hawaiian chants can be conjoined with modern mathematics and astrophysics to give the world a clearer understanding of who we are. More importantly what we will learn can help us to better understand and take care of the planet earth. Astronomers know better than anyone else how rare and irreplaceable the earth is.

#071

Posted by **Rachel Kamealiʻi Nazara** on **10/25/2021** at **10:09pm** [Comment ID: 372]

Agree: 0, Disagree: 0

While it may be a “source of inspiration to many,” it remains a foundation for nā ʻōiwi (the indigenous people) and reminds us of our kuleana (rights/responsibility) to our lāhui (nation/race/people.) In effect, it is inappropriate for us to be asked to allow for any continued desecration of this sacred space.

#072

Posted by **Rachel Kamealiʻi Nazara** on **10/25/2021** at **10:21pm** [Comment ID: 375]

Agree: 0, Disagree: 0

"Place" as defined by?...

#073

Posted by **Jonathan K Osorio** on **10/09/2021** at **1:00pm** [Comment ID: 143]

Agree: 0, Disagree: 0

Really? What does this mean to you?

#074

Posted by **pahnelopi G mckenzie** on **10/25/2021** at **9:29am** [Comment ID: 292]

Agree: 0, Disagree: 0

I appreciate all you have said and agree with it. I find it interesting that you will quote Pukui and yet if she was alive i am sure she would speak out against the destruction that the telescopes have done to this sacred mountain. How can you claim He aliʻi ka
ʻāina; he kauwā ke kanaka and yet still promote these telescopes which is the opposite of this noʻeau

#075

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:24pm [Comment ID: 376]
Agree: 0, Disagree: 0
Why does the origin of "the Universe" matter more than the origin of our people, especially when one considers that this "place" is Hawaiian above all else?

#076

Posted by HiloResident on 10/06/2021 at 11:46am [Comment ID: 110]
Type: Correction
Agree: 0, Disagree: 0
We know from geology that this is not true. This should be acknowledged.

#077

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:28pm [Comment ID: 377]
Agree: 0, Disagree: 0
The universalism being used to justify your perspective is exploitative at best. Using the symbol of a lei to justify your aim as just another "diverse" perspective is disappointing to say the least.

#078

Posted by dgarcia2727 on 10/26/2021 at 9:40am [Comment ID: 424]
Agree: 0, Disagree: 0
If you recognize that land is not a commodity and an esteemed elder, why do you want to continue the desecration of these lands with projects like TMT and the existing telescopes?

#079

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:16pm [Comment ID: 373]
Agree: 0, Disagree: 0
The "wonderment" of the unknown by some should not supersede that which we know as nā ʻōiwi. Indigenous knowledge should matter in indigenous spaces!

#080

Posted by Heluhelu on 10/26/2021 at 10:22am [Comment ID: 434]
Type: Correction
Agree: 0, Disagree: 0
Not alone-covered in 13 existing telescopes. The focus on Mauna Kea should be preservation of sacred sites and appropriate maintenance of the 13 existing telescopes.
Astronomy is great, but is at this point another tourist viewpoint. Nothing discovered in these telescope has lead to an improvement in the lives of the Kanaka Maoli or indeed the residents of these islands. UH should be working on creating a sustainable economy not more desecration.

#081

Posted by chuckgrigsby on 09/14/2021 at 1:20pm [Comment ID: 49]
Agree: 0, Disagree: 0
And for others of us, the telescopes are what makes the mauna sacred.

#082

Posted by Lcoelho23 on 10/13/2021 at 4:32am [Comment ID: 170]
Agree: 0, Disagree: 0
Maunakea is sacred for many reasons.
-It’s a Native Hawaiian Burial ground
-Its a place where Native Hawaiians go to be and communicate with the spirits of their ancestors
-Its a place that will help heal the people!
system. The Hawaiian relationship to the land is one of reciprocity; people serve the land which in turn provides for the people. In this view, it is the collective responsibility of UH, Native Hawaiians, the Hawai‘i Island community, and the astronomy facility staff who benefit from Maunakea’s remarkable viewing conditions, to behave in ways that sustain Maunakea’s gifts of spirit, life, discovery, learning, and connection for future generations. The purpose of E Ō I Ka Leo is to help all fulfill their responsibilities to the mauna and to one another.

Part of this responsibility is to integrate the knowledge and traditions of the ancestors into our plans and practices wherever we can, for example, the Kumulipo (an important Hawaiian creation account) describes Maunakea as the first-born mountain son of Wākea (sky father) and Papa (earth mother), who were also progenitors of the Hawaiian race. Maunakea is symbolic of the piko (umbilical cord) of the island-child, Hawai‘i, and that which connects the land to the heavens (Maly, Piko Kaulana:v).

Paupaniākea is another name for Wākea referenced in the Kumulipo. The name may mean “End of the closing up of light” or “Opening up of light” (Beckwith, Hawaiian Mythology:294) which in either case accurately describes some of the unique spiritual and astronomical qualities associated with the summit area. As Pukui and Elbert note ‘Āpapalani refers to the “Legendary upper stratum and abode of the gods [or] chiefs of the highest rank, as nīʻaupiʻo.” (Pukui-Elbert:28). In researching these names Pualani Kanahele notes:

“‘Āpapalani is the space above the earth’s atmosphere where the oxygen is thinner. On the mountain it is where the greenery subsides and disappears, thins out like the oxygen. The space below where the daily rain clouds meet the mountain is ‘Āpapanu‘u. Therefore, we have two nomenclatures, the very top is Paupaniākea and ‘Āpapalani below.”

It is UH’s intent that this Master Plan serve as a framework for aligning land use decisions, management actions, and educational programs in a way that strengthens everyone’s connections to this special place by integrating traditional and contemporary knowledge and practice where possible. Achieving balance in the development and management of the resources can be accomplished only when there is a greater understanding and appreciation of the many values held by the community regarding Maunakea.

History, Voice, and Vision

* I ka ‘olelo no ke ola, i ka ‘olelo no ka make.
   
   In language there is life, in language there is death.4

   Words can heal, words can destroy.

Historians write from a worldview that is shaped by their backgrounds, experience, and values. In Hawai‘i, for many years this meant that American historians often neglected and even denigrated traditional Hawaiian values and culture that has changed substantially in recent decades with

4 Pukui, 1983, No. 1191
#083

Posted by Veronica Ohara on 09/13/2021 at 11:56am [Comment ID: 38]

Agree: 0, Disagree: 0

I am happy to see you refer to Pukui and Elbert when it comes to astronomy on Maunakea.

#084

Posted by jmakyoku on 10/26/2021 at 7:26pm [Comment ID: 501]

Type: Correction

Agree: 0, Disagree: 0

Pretending all these views carry equal weight is an injustice, as Hawai‘i is a deeply racialized society with an military and economic power structure that has exploited the land and people for decades.

#085

Posted by ku ching on 10/07/2021 at 11:11am [Comment ID: 128]

Agree: 0, Disagree: 0

Responsibilities to one another?

Sorry folks, Hawaiians do not have responsibilities to the university! However, on the other hand, the university has responsibilities to Hawaiians - primarily because they are beneficiaries of the Public Trust that Mauna Kea is part of. So - as the Hawai‘i Supreme Court has interpreted - beneficiaries have benefits! Yet the university, other than paying lip service to Hawaiian culture and Hawaiians, treat Hawaiians adversely continuously. Where are the benefits for Hawaiians (when you keep on trying to create policies and rules that are adverse to them)? But please make it clear in this document - "The university does not and cannot regulate Hawaiian culture and its practices" - and thus this - and Hawaiians who are cultural practitioners are NOT subject to these rules!

#086

Posted by Rachel Kameali‘i Nazara on 10/25/2021 at 10:39pm [Comment ID: 379]

Agree: 0, Disagree: 0

As 'ōiwi we have kuleana not just to "future" generations, but to past generations as well. Our kūpuna/mākuʻa (ancestors/elders) taught us better than to think only of ourselves. When thinking of them as well as our future people, there is no way we can support the perspectives being pushed here...unless of course we are wanting to offend our people by metaphorically slapping them in the face by supporting this project.

#087

Posted by Jonathan K Osorio on 10/09/2021 at 1:22pm [Comment ID: 144]
I think that this description, especially to the continually pointing to stewardship and reciprocity still treats the mountain as an object--of usefulness, of beauty, of care. What happens when you think of Mauna Kea as a subject?

#088

Posted by Kassidy Wartz on 10/26/2021 at 1:54am [Comment ID: 399]
Type: Suggestion
Agree: 0, Disagree: 0
As stated, this place is sacred. That should be the end of this document and conversation, but sadly because our voices and presence are both not respected, it is not. It is a privilege for anyone to be upon this land that the Native Hawaiian/Indigenous Peoples to this land hold important. Before the telescopes were built, not even Native Hawaiian medicine people were allowed to be on this mountain. Why does the University feel that their business on Mauna Kea is more important than that? This document acknowledges this but needs to act accordingly and stay off the land. Stop the desecration of a sacred place!

#089

Posted by Stefanie Allen on 10/10/2021 at 2:33am [Comment ID: 149]
Type: Suggestion
Agree: 0, Disagree: 0
If the TMT is built, would it belong to NASA or the people of Hawaii?

I come from Indiana. There are manholes in the bottom of the White River. Sewage and industrial waste flow into that river. The city of Indianapolis smells like a toilet and the air is difficult to breath.

I read that one of NASA's arguments is that the TMT would "create jobs." Will these jobs pay a living wage? For all workers? Even janitors? Otherwise someone stands to profit of the labor of others.

And the TMT will have to have plumbing.

How can you build the TMT without harming the environment? You will have to dig sewage pipes and that sewage will have to go somewhere.

In history, it has happened over and over and over again.

People who have a lot of money buy land, build an operation, and tell the community "it's okay, I'm helping you!" Then they hire the community members and pay them poorly, overwork them, take advantage of them. On top of that they pollute their air with smog and pollute their waters.
It doesn't matter if it's for "science" or "education"

People and the environment are the ones paying the ultimate price in the end.

It has happened so many times in history. Will history repeat itself?

Hawaii is a great nation. The U.S.A. has done so much harm to Hawaii. So again, it's important to consider who exactly wants and is building the TMT. And even more importantly, who stands to be harmed in the making of the TMT. You cannot lie. Their will be casualties. Unless there is a way to magically dispose of industrial waste. Unless every laborer is paid well and kept safe.

And even then there are still casualties.

The people of Hawaii have spoken and continue to tell you that Mauna Kea is sacred. And can you possibly understand what that means? And can you understand what it would mean to bulldoze the land and put in your sewage pipes. I cannot because I'm from Indiana, but I'm not trying to build a TMT on Mauna Kea. But being from Indiana, I've seen and smelt enough pollution to understand the pain and suffering that comes from unchecked industrialization. My dad works hard to keep the electricity running through half the city, and he barely gets paid enough to drive to work and back.

I've also studied history and the trauma that the U.S.A. has caused to so many.

This plan is long and wordy. And from the news it sounds like you're saying "maybe, maybe not but trust us"

How can anyone trust you if you can't even make up your mind about building the TMT?

Ultimately, I should think Mauna Kea, if it belongs to anybody, it belongs the people of Hawaii and they don't need a lengthy document to prove that.

#090

Posted by jmakyoku on 10/26/2021 at 7:24pm [Comment ID: 500]
Type: Correction
Agree: 0, Disagree: 0
Who gave UH and astronomy staff permission to demand the land provide for them?

#091

Posted by Lei Kihoi on 10/26/2021 at 8:07am [Comment ID: 411]
Agree: 0, Disagree: 0
1. The current report does not address the amount of percentage the university gets from the profits of Maunakea to run the university
2. what is the current status of the advisory group that was just appointed by the governor with regards to making decisions in collaboration with the board of regents number
3. assuming the board of regents continues as the ultimate decision maker with regards to Maunakea, it is important to have an appointed NATIVE HAWAIIAN with voting rights. 4. Being that Maunakea ceded lands, Hawaiians should have 20% of revenues and free tuition at UH

#092

Posted by kingsam2 on 10/06/2021 at 12:55am [Comment ID: 104]
Type: Suggestion
Agree: 0, Disagree: 0
This entire paragraph seems irrelevant, inflammatory and designed to appeal to certain political point of view. There seem to be a lot of broad, sweeping conclusions being made that have nothing to do with management of Mauna Kea. Furthermore, if the point is to lead up to the context of the TMT protests, this entire paragraph would need to be re-worded to explain the lies, deceit, and bullying that have been the hallmarks of the TMT protests. To write this paragraph in this fashion ties gives the protests a legitimacy that they do not have by giving an official stamp of approval on the protesters' narrative that the TMT fight is connected to perceived injustices of the past. The opposite is true. TMT honors Hawaiian culture and history, and has frankly bent over backwards to provide reparations to Native Hawaiians.

#093

Posted by Kyla-Marie Kahulamakamaeʻokalani Turner on 10/25/2021 at 11:08pm [Comment ID: 384]
Type: Suggestion
Agree: 0, Disagree: 0
I think, just commenting culturally, the Hawaiian relationship to the land goes deeper than reciprocity. It is one of kinship, because, as stated before, the ʻāina is elder to us. It's not so much a working relation, as it is a familial one. When we take care of our family, our family takes care of us. It is more like that I believe.

#094

Posted by kingsam2 on 10/05/2021 at 11:18pm [Comment ID: 103]
Type: Correction
Agree: 0, Disagree: 0
Please provide a citation for this statement. As far as I am aware, Maunakea is not mentioned in the kumulipo.

http://www.ulukau.org/elib/cgi-bin/library?e=d-0beckwit2-000Sec%E2%80%941haw-50-20-frameset-book%E2%80%941-010escapewin&a=d&d=D0&toc=0

Maly, at pages 7-8 (PDF 32-33) describes out certain *other* chants, specifically the
birth chant of Kaukeaula, discuss the entire island chain being born from Wakea and Papa, but there is no specific emphasis on Mauna Kea apart from the rest of the island chain. The attachment of "mauna kea" to "mauna a wakea" is an interpretation, but it does not seem to be made clear in the chant. The chant is more likely referring to mountains generally.


#095

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 11:08pm [Comment ID: 385]

Agree: 0, Disagree: 0

"...land use decisions, management actions, and educational programs" as determined by who? Considering that there must be some hierarchy of "the many values" you mention, it appears obvious to me that the values of us as ʻōiwi should matter more because we are in Hawaiʻi. I know colonials and their neo-colonial counterparts continue to label this place as America, but this is not America.

#096

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 11:10pm [Comment ID: 387]

Agree: 0, Disagree: 0

Are you not continuing this practice by writing this justification for your project?

#097

Posted by Jonathan K Osorio on 10/11/2021 at 8:25am [Comment ID: 155]

Agree: 0, Disagree: 0

I wonder if you have Kumu Pua Kanahele's endorsement to use her descriptions for this plan

#098

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 11:09pm [Comment ID: 386]

Agree: 0, Disagree: 0

"...land use decisions, management actions, and educational programs" as determined by who? Considering that there must be some hierarchy of "the many values" you mention, it appears obvious to me that the values of us as ʻōiwi should matter more because we are in Hawaiʻi. I know colonials and their neo-colonial counterparts continue to label this place as America, but this is not America.

#099

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:42pm [Comment ID: 380]

Agree: 0, Disagree: 0

Who is "we" you are speaking of? Whose ancestors? And whose plans/practices
exactly?

#100

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:59pm [Comment ID: 382]
Agree: 0, Disagree: 0
Are you attempting to equate our spirituality with your "astronomical" research? If so, what system of valuation are you implementing here? In my eyes the two are incomparable because the perspective by which each finds its root is different. Again, since this is Hawaiʻi, shouldn't our cosmology have more value than yours considering "sense of place?"

#101

Posted by dgarcia2727 on 10/26/2021 at 9:50am [Comment ID: 425]
Type: Suggestion
Agree: 0, Disagree: 0
It is culturally insensitive to use Hawaiian cosmology and spirituality to advance your exploitative projects and so-called stewardship of Maunakea. As you mention, the summit of Maunakea is a place for gods and spiritual beings. It is not a place for non-Native Hawaiians to reside let alone operate out of.

#102

Posted by Rachel Kamealiʻi Nazara on 10/25/2021 at 10:49pm [Comment ID: 381]
Agree: 0, Disagree: 0
It appears that you have interpreted the Kumulipo to your benefit. It is not simply that Maunakea is an "island-child." It is one of many hiapo (elder siblings) of our people, and we therefore cannot treat it as anything less. Our cultural understanding informs us of the huge debt we owe to our hiapo, therefore making it no less than an offense to objectify the mauna as you aim to by continuing to build upon it.

#103

Posted by Kathy Shimizu on 09/15/2021 at 10:27am [Comment ID: 55]
Type: Suggestion
Agree: 0, Disagree: 0
Perhaps it is the University and the forces behind the observatories that need to weave into the Hawaiian Culture. Begin with the culture first, not the other way around.
Hawaiian voices increasingly expressed and heard. As a result, historical events and political injustices experienced by the Hawaiian people are now well-documented, as are the devastating impacts those experiences have had on the well-being of Hawaiians. The broadened discussion by voices of indigenous peoples has given rise to a movement that seeks to rectify harm caused by these past injustices.

The resonance of the native Hawaiian kāhea (call) to compensate for past injustices is clearly reflected in the ongoing conflict over the development of Thirty Meter Telescope (TMT) and with what is viewed as over-development on Maunakea for astronomy in general. At the same time, other community voices have consistently spoken in support of astronomy on Maunakea as an important element of the island’s future economic and educational base. This has motivated many in the community to pursue a vision for Hawai‘i of a more diversified economy that includes greater support for research, education, and technology and less dependence on tourism.

UH believes that whether one supports or opposes astronomy on Maunakea in general and/or TMT in particular, and regardless of whether one believes that UH is the most appropriate agency to manage the upper reaches of the mountain, if Hawai‘i is to achieve its goals of building a more diverse and sustainable future for this and future generations, the path forward is through a knowledge-based economy inclusive of disciplines grounded in science and technology guided by the values of the community. The central question for Maunakea then becomes “do the values of our community allow for Maunakea to be a place where a component of this future (astronomy) is pursued beyond 2033 when conducted under a comprehensive management plan?”

How one answers that question is a function of the diverse and sometimes conflicting views one holds regarding land use, governance, and stewardship. This diversity of opinion was most recently observed in the findings of the Department of Land and Natural Resources’ evaluation of UH’s implementation of the Maunakea Comprehensive Management Plan, which stated that “…the opinions of members of the public regarding UH stewardship of Maunakea has often depended upon whether they support or oppose telescope development on the mauna.”

Unfortunately, E Ō I Ka Leo cannot resolve past historical injustices and the consequences inflicted upon and experienced by Native Hawaiians because of them. Neither can it resolve the fundamental question of whether State and Federal policy should continue to endorse astronomy on Maunakea. While both are critical topics for the State, these are policy issues that UH alone cannot decide, and their resolution is beyond the scope of this Master Plan. What E Ō I Ka Leo attempts is to incorporate the diverse values held by the community into a framework that supports discourse and decisions leading to a balance of interests and responsibilities and a unifying vision for Maunakea as a unique source of learning.

1) There are other options to consider for moving away from dependence on tourism. Food sovereignty, for example. Social programs to help Kanaka grow food and build small businesses for essential products that keep our money in the islands rather than sending overseas.
2) We don't need to be #1 in astronomy research. This competition mindset is a toxic foundation of colonial society that needs to be dismantled. Focus on upgrading the telescopes that are there while making amends with the Native community. This compromise, the promise of harmony is far more vital to our future than any telescope.

Wording here implies equal support and opposition, which to my understanding is clearly not true, especially in reference to the primary stakeholders here, the Native Hawaiians who consider Maunakea sacred.

How can true management and caring take place when the fox puts itself in charge of the henhouse? Who manages the fox?

Are you saying that the economic impact of astronomy in Hawai'i will equate anything near the 20% impact that tourism currently has? While yes, we as Hawaiians (as well as some locals) want less tourism here, it feels like you are conveniently using our desires against us in an attempt to persuade us to go along with your desecration (a.k.a. development) on our Maunakea.

As an educator, I personally say yes. The real education, the real example all of this
can be, however, is an example of how colonizers can appropriately empower and partner with indigenous communities to allow them to lead us into the next phase - it not just about astronomy, technology, etc. UH, Hawaii, and ultimately the Hawaiian people could become one of the first living examples of how to do this 'right'. To be this case study would become what universities and governments would seek to learn from.

#109

Posted by **Pua Brown** on **10/25/2021** at **2:43pm** [Comment ID: 325]

*Type: Correction  
*Agree: 0, Disagree: 0

Yes, there should be a more diversified economy. Tourism, military, the agrochemical industry, real estate, and astronomy/telescopes have all been part of the lack of diversified economy that has not changed and only gotten worse over the last 50 years! Why would more telescopes bring more diversity to our economy? Do you think more tourism and military will also diversify the economy?

#110

Posted by **Pua Brown** on **10/25/2021** at **1:37pm** [Comment ID: 307]

*Type: Correction  
*Agree: 0, Disagree: 0

This betrays the majority opinion of the Hawaiian people that have been screaming, "no more! Enough is enough!" 20,000 people marched in a single day to demonstrate our opposition to TMT on Mauna Kea. How many marched in support of further desecration? Stop using our home and our most sacred land for your science experiments. From experimental pesticides and herbicide resistant seeds to bombing Kaho'olawe for target practice to building these monstrosities on Mauna Kea - aole. Enough is enough. The few in power is deciding what the future of Mauna Kea should look like and ignoring the majority opinion. Don't hide behind "diversity."

#111

Posted by **Anonymous1** on **10/26/2021** at **10:40am** [Comment ID: 440]

*Type: Suggestion  
*Agree: 0, Disagree: 0

E O I Ka Leo is not responsible for resolving past injustices. It is responsible to not incur further injustice. Of course, there is trans-generational trauma compounded by current injustices that are beyond the power of UH. However, its "unifying vision" should include the interests of the Native community, not only as a "source of learning" but for the cultural and spiritual reverence that Mauna Kea deserves. The vision is not unified if only UH interests are considered.

#112

Posted by **Veronica Ohara** on **09/13/2021** at **12:19pm** [Comment ID: 40]

*Agree: 0, Disagree: 0
Astronomy and the University of Hawaii cannot be expected to be responsible or answer for the injustices to the Hawaiian people. In fact, I am astounded that the Hawaiian Ethnic Studies and the law school at UHM have been allowed to mount an unending assault on the UH Astronomy and Physics Departments. My old alma mater is turning a blind eye to a clear conflict of interest; are the tax dollars to be used to destroy a UHM institution? How is it possible that Williamson B. C. Chang, Osorio, Takamine Holt, K. Beamer be allowed to use their exalted office, chair, professor position to turn young minds against astronomy? Against their own school, place of employment and their own people. It's outrageous. Freedom of speech is important but making Kanaka afraid to pursue their studies in astronomy is entirely another. For far too long these professors have abused their position and the result is Kanaka are discouraged from pursuing astronomy. This is not pono, it's not how open minded societies function.

I've been dismayed to see certain books chased out of print by the Hawaiian Ethnic Studies classes. Even more troubling are the revisionist history I see repeated as a mantra, spoon fed across social media with every upside down reggae colored "Hawaiian" flag.

But I suppose it's not much different from what is happening across the nation with education. The problem is what I am seeing generated from UHM ethnic studies is far different from what I learned under Pua Anthony when the program began in the "70s. I see a twisting of fact, a re-interpretation of our history according to Sam Kamakau, David Malo and John Papa I'i, not to mention Fornander, Pukui and more. I suppose you cannot limit what these professors teach but at least Beamer and all should be reminded that the Battle of Kuamo'o was the end of the Kapu System and after that we were free of it. I don't think we will return to the old gods anymore than the luna system at the old plantations of Castle and Cook. The University of Hawaii and astronomy cannot be held accountable for the sufferings of the Hawaiian race. It's not reasonable.

#113

Posted by kingsam2 on 10/06/2021 at 1:10am [Comment ID: 105]
Agree: 0, Disagree: 0
It is odd to give these grievance and victimhood claims pride of place in the "history" section. I recommend this section start off with a description of how the construction of the telescopes was celebrated with no opposition when they were first constructed, and then eventually lead into a description of how the current objections to UH's management have more to do with TMT than any real failures by UH in the last 20 years.

#114

Posted by Olivia Nohealani Guarna on 10/26/2021 at 3:12pm [Comment ID: 484]
Agree: 0, Disagree: 0
While I wholeheartedly agree that Hawai’i needs to diversify its economy to become
less dependent on the tourism industry, astronomy on Mauna Kea is just another industry that exploits Hawaiian culture.

#115

Posted by HiloResident on 10/06/2021 at 11:54am [Comment ID: 113]

Type: Suggestion
Agree: 0, Disagree: 0

Perceived injustices - to be clear. If history did not happen exactly the way it did, none of us would be alive to have this particular discussion.

#116

Posted by Jonathan K Osorio on 10/09/2021 at 1:26pm [Comment ID: 145]

Agree: 0, Disagree: 0

This is not something that passively took place or somehow suggests an evolution of western consciousness. That haole hear our voice is the result of risk, passion and sacrifice. That we hear the voice of our ancestors in our āina may well be an evolution of consciousness.

#117

Posted by Michael Mack on 10/09/2021 at 12:46pm [Comment ID: 138]

Type: Suggestion
Agree: 0, Disagree: 0

As a Hawaii resident I wholeheartedly support TMT and other projects like it. I believe that the best way to build a robust local economy is through science and technology. While that may be difficult in many disciplines we have been blessed tremendous advantage in astronomy, and for our sake and the sake of future generations we should take full advantage of it.

I also believe that the future of mankind as a species will eventually depend on our ability to migrate to and survive on other planets and in space. I think our ability to do that will strongly depend on investments that we make to understand the universe. The TMT will advance this understanding, and Mauna Kea is the best location for it. It will not be as effective at other locations.

I think the issue of TMT is central to the plan, so it's important to elaborate on why we should build it. It's not just because it's good for our economy. The knowledge we gain with TMT has larger implications.

Thank you!
-Mike

#118

Posted by chuckgrigsby on 09/14/2021 at 1:33pm [Comment ID: 50]
Excellent explication of the issues and of the position of UH on the terrain of all the issues.

#119

Posted by Lehuakona on 10/25/2021 at 8:20pm [Comment ID: 348]
Agree: 0, Disagree: 0
These sections in the foreword are beautifully written, and quite eloquent. Thank you for these insights.

#120

Posted by Heluhelu on 10/26/2021 at 10:25am [Comment ID: 435]
Agree: 0, Disagree: 0
You cannot correct the past, but you can correct what you do in the future. Your place should be to stop the continued abuse of Mauna Kea. That is in your power to do.

#121

Posted by Pua Brown on 10/25/2021 at 2:44pm [Comment ID: 326]
Type: Correction
Agree: 0, Disagree: 0
Over development is pervasive throughout Hawai‘i - the development of our sacred sites and destruction of our cultural resources has had a huge impact on the health and well-being of the Hawaiian people. Currently, Native Hawaiians make up over half the homeless population and 10 percent of the population. Do you think that further desecration of our most sacred 'Aina against our wishes will address this disparity and lack of opportunity in Hawai‘i? Do you think Kanaka Maoli want to be employed by an industry that doesn't recognize our rights, knowledge, religion and cultural practice as valid? Mauna Kea is sacred and should be left alone. https://www.honolulu.gov/rep/site/ohou/PIC2020PITCountReportFinal.pdf

#122

Posted by Cassidy Bennett on 10/25/2021 at 1:48pm [Comment ID: 310]
Type: Suggestion
Agree: 0, Disagree: 0
Native Hawai‘ian voices are what should be prioritized here. There is not equal support and opposition - the majority of residents oppose TMT. And "other community voices" - settler colonialists - should not be prioritized in this conversation.

#123

Posted by Gerald F Kalisik on 10/10/2021 at 4:27pm [Comment ID: 152]
Agree: 0, Disagree: 0
Yes, Mauna Kea needs to be shared by all in the community.
#124

Posted by **Rachel Kamealiʻi Nazara** on **10/25/2021** at **11:12pm** [Comment ID: 388]

Agree: 0, Disagree: 0

How exactly are you addressing injustice through this project?

#125

Posted by **Abby** on **10/20/2021** at **2:24am** [Comment ID: 195]

Type: Typo

Agree: 0, Disagree: 0

So to sum up the first few pages: you included the cultural significance of the mountain to the Native people, and share parts of their culture like poems to say how beautiful and awesome of a place the mountain is, then you cut to “we don’t care if you disagree the only way to achieve anything is with our technology!” That is a colonizer mindset, and what you are attempting to do is further colonization. In the future when the world has recognized Indigenous voices and lifted them up to where they should be, and that day will come, the world will not look at this university as a great pioneer for science. The world will look at you as just another institution who refused to respect people’s rights, it will look at your establishment with more contempt than it already does. As a second point I would like to point out that chemical spills are not sustainable. If sustainability was a concern to this university you wouldn’t be attempting further expansion. Hawaii was sustainable before colonizers stepped on its land. You are going backwards while trying to obtain the future.

#126

Posted by **HiloResident** on **10/06/2021** at **11:53am** [Comment ID: 112]

Type: Suggestion

Agree: 0, Disagree: 0

The Master Plan seems to use Hawaiian and native Hawaiian interchangeably. Suggest defining these terms instead of leaving the definition open to interpretation.
Extending the Reach

ʻAʻohe pau ka ʻike i ka hālau hoʻokahi.
All knowledge is not taught in the same school.6

One can learn from many sources.

In 2016, UH collaborated with the astronomy-community in sponsoring the Envision Maunakea Initiative, a series of conversations led by its community partner, Friends of the Future. These conversations identified the aspirations of community members regarding what Maunakea means to them and how they would like to see it stewarded. The intent was to improve UH’s understanding of why Maunakea is important to people and to use this feedback to inform UH and astronomy community’s plans for the future. The conversations were intimate and, in many instances, deeply personal, with the shared experiences documented in The Report of the Hui Hoʻolohe.7

Two key insights revealed by that collaboration have informed this plan. First, all groups agreed that it is a privilege to experience Maunakea, whether that be as a cultural practitioner, recreationalist, tourist, astronomer, commercial tour operator, or other. Maunakea uniformly is described as moving minds and spirit, and lives have been changed because of one’s relationship to the mauna even if for only a single experience. Second, the mauna is the teacher while each of us brings with us a set of values, a knowledge base, and tools that shape our experience of it, in the end it is the mauna that teaches us both what we came to learn and that which it decides we need to learn.

Maunakea is not just a valuable astronomical resource, it is a unique natural, biocultural, and social ecosystem that has much to teach us about our origins, future, human nature, history, ʻike Hawaiʻi (traditional knowledge), climate, and so much more. E Ō I Ka Leo proposes to broaden the focus of UH’s facilities and resources at Halepōhaku to support the educational and research opportunities that Maunakea offers in fields other than astronomy. The exact nature of the educational opportunities that will be offered are still to be developed, but in concept would be supported by Halepōhaku serving as a multi-disciplinary field station for research and teaching. Facilities and programs offered there would serve as a venue for focused, customized, high-touch, educational programming for college and secondary school students; community, professional, affinity groups; and the general public. It would be a place for integrating multiple disciplines and addressing diverse topics.

Foundational future educational programming and field work would be building a solid cultural base of ʻike Hawaiʻi and nohona Hawaiʻi (traditional practices) underpinning all offerings and opportunities. CMS and ʻImiloa are partnering to develop this programming in collaboration with other Hawaiian cultural resources across UH and in the community with a common goal of inspiring the intellectual and personal growth of all those who are privileged to visit, learn, and work there.

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6 Pukui, 1983; #203
7 Envision Maunakea, 2018
#127

Posted by chuckgrigsby on 09/14/2021 at 1:36pm [Comment ID: 51]
Agree: 0, Disagree: 0
The mauna is a mountain, just like lots of other mountains on the globe. Anthropomorphizing mountains is not helpful in the context of making public policy decisions.

#128

Posted by Veronica Ohara on 09/13/2021 at 12:39pm [Comment ID: 41]
Agree: 0, Disagree: 0
Agreed, more disciplines can be developed. I would like to see a conservation program for historic sites developed for interested university students. Currently the Maunakea Rangers and other staff do an outstanding job in taking of existing sites, they are to be commended. Currently it appears anyone can leave things on Maunakea and sadly the fragile ecosystem is being hurt. The trash left up on Maunakea by the TMT protesters remains and some construction has taken on a permanent aspect. Do you remember that a few years ago Mr. P. Dedman and others constructed a pile of rocks and placed disinterred human remains near Area E of the Astronomy Precinct. To this date no charges have been brought forward even though this action went against so many facets of Hawaiian culture. Even the dead have rights. Sadly, the law is not equally applied in Hawaii.

#129

Posted by Connie on 10/25/2021 at 1:04am [Comment ID: 275]
Type: Correction
Agree: 0, Disagree: 0
This is sacred land to Native Hawaiians. This land does not belong to us therefore we do not have the right to use it as we please; no matter how noble we feel the reason may be. This is not your land. You cannot use it for your research.

#130

Posted by Abby on 10/20/2021 at 2:29am [Comment ID: 196]
Type: Correction
Agree: 0, Disagree: 0
Allowing natives to use their land for spiritual and cultural practices is not the only issue here and will not solve the problem. The problem is your construction of a new telescope is assaulting their sacred site, and they view it as such. There is no way to sustainably build tmt and respect native Hawaiians.

#131

Posted by Anonymous on 10/25/2021 at 7:31pm [Comment ID: 343]
Type: Suggestion
Agree: 0, Disagree: 0

This is a great argument for moving the entire University of Hawaii Astronomy program (IFA) to Hilo, rather than Manoa. This would bring money and jobs to the community (many more than TMT would). It would also make a statement that Maunakea is THE center of Astronomy in Hawaii, not O'ahu. This would also expose the leaders (and students) of UH's Astronomy program to the local culture.

#132

Posted by Kathy Shimizu on 09/15/2021 at 10:42am [Comment ID: 56]

Type: Suggestion
Agree: 0, Disagree: 0

Educational opportunities should be determined and included in the final document. Who is benefit from these educational opportunities? Who selects these people? I believe our part Hawaiian kids should be groomed from younger years with some kind of alliance with the astronomers. I am a retired teacher, and our kids need the help to get connected and keep connected. People that are at an advantage in accessing educational opportunities are prevalent in the Mayan. Some handholding has to be done until we can wean our kids to function in this Western society.

#133

Posted by chuckgrigsby on 09/14/2021 at 1:49pm [Comment ID: 52]

Agree: 0, Disagree: 0

"... not just ...". Let's get the context right. No human "traditional knowledge" correctly identified that the Milky Way is not the same thing as the universe. In fact, we have only known about the true scale of the universe for about 100 years. We only know about that scale from detailed astronomical observations conducted using a telescope. Because none of us were alive 100 years ago, we tend to take it for granted that astronomical knowledge has always "been there" just like it is now. The old ways die hard, but they must die in the face of new information. Mauna Kea is not the oldest source (per the Hawaiian tradition), it is much younger than most of the earth. When we learn new truth, we need to place old myth in its appropriate new context. We are at an amazing time in the history of humanity. Much of our current scientific knowledge has been developed in the past 140 years (I use that number because it is twice my personal age). The growth of modern scientific knowledge is a wonder (at least to me) that rivals the view of the Milky Way from the top of Mauna Kea. Having been to the top of Mauna Kea and to the tops of other fourteeners, I can state with certainty that the view, while majestic, is typical of the views from high mountains. But the highest mountain of all is the one we have created from ignorance in such a short time, and the view from that mountain is truly stupendous.

#134

Posted by Lcoelho23 on 10/13/2021 at 4:21am [Comment ID: 168]

Type: Suggestion
Native Hawaiians will benefit greatly if they go back to their roots and use Maunakea lands for basic cultural and spiritual practices. They need to use these lands to help heal the people.

#135

Posted by Anonymous on 10/22/2021 at 10:17pm [Comment ID: 217]
Type: Suggestion

These educational opportunities should be taught by actual Kanaka Maoli who have deeply rooted connections to the Mauna, not just those with the blood but no actual deeply rooted connections. They must show their dedication to educating the community at large and be approved by the Kanaka Maoli community.
Ancestral Ways, New Beginnings

_Hahai no ka ua i ka ululā‘au._

Rains follow the forest.  

Knowing this, Hawaiians hewed only what was needed.

Hawaiians understand how special Maunakea is as both a source of inspiration and for the value of its unique natural resources. Guided by this perspective, this plan helps demonstrate UH’s relationship to Maunakea as a significant cultural and historical landscape where astronomy is a legally permitted use, commitments are honored, and use of its resources are balanced in order to achieve a sustainable future for the diverse values our community ascribes to this special place.

In recognition of this, E Ō I Ka Leo seeks to ‘āwili (weave) the diverse values Maunakea represents, striving to find balance amongst the community’s many approaches to understanding our origins and encouraging people to collaboratively protect this special place. Finding balance is a never-ending, constantly evolving journey that aligns well with UH’s overall purpose. Accordingly, E Ō I Ka Leo establishes a framework for moving forward with the understanding that, as with all sail plans, the navigators must constantly be aware of, adapt, and adjust to changing winds and seas that we encounter during our journey.

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8 Pukui, 1983, #405
#136

Posted by **Sydney Davis** on **10/12/2021** at **6:47pm** [Comment ID: 162]

_Agree: 0, Disagree: 0_

Just because something is legal, it does not make it right or necessary or wanted. Native Hawaiians have been advocating for decades for protection of Mauna Kea. If you are truly concerned with stewardship, you will take advice from indigenous communities all over the world and cease unnecessary building on stolen lands. The astronomy equipment already on mauna Kea is enough, it is not your mountain to control and desecrate.

#137

Posted by **Chelsey Crabbe** on **10/13/2021** at **3:08am** [Comment ID: 167]

_Type: Suggestion_

_Agree: 0, Disagree: 0_

How are we to explore the sky with open-mindedness and curiosity if we cannot respect our fellow humans on this planet? The summit of Mauna Kea is equally an utmost sacred place to the people of Hawaii and to those exploring the sky. However, why do these two group need to diverge? The meaning of aloha aina, respecting the land like a family member in one big community ecosystem, is a principle we all must adopt and protecting Mauna Kea is a step forward in that direction.

#138

Posted by **Abby** on **10/20/2021** at **2:37am** [Comment ID: 197]

_Type: Typo_

_Agree: 0, Disagree: 0_

Legal does not equate to ethical.
1 MISSION, VISION, VALUES, GOALS, OBJECTIVES, AND STRATEGIES

Maunakea is important to diverse communities on Hawai‘i Island, on the other islands that make up the state, and beyond. Part 1 of this plan describes the University of Hawai‘i’s (UH):

- **Mission and Purpose on Maunakea** – the reason for its presence on Maunakea.
- **Vision for Maunakea** – what it seeks to accomplish as a result of its actions on Maunakea.
- **Core Values** – the precepts that guide the way people behave as they try to implement the vision and carry out UH’s mission on Maunakea.
- **Goals and Objectives** – concise statements of what needs to be done to accomplish the mission, fulfill the vision, and promote the core values.
- **Strategies** – the overall approach that UH will use in attempting to reach the identified goals and objectives.

These are the foundations upon which UH’s Master Plan for Maunakea, *Hōʻoia A Ka Pūlī* (truths revealed from the dark night), rests and which have guided the decisions that are reflected in it. Part 2 of this Master Plan, discusses the facilities and land uses that UH believes may occur within the UH Maunakea Lands over the period of this Master Plan. Part 3 of the Master Plan presents the review process and design guidelines that facility and land use proposals will need to navigate.

The content of this Master Plan, including UH’s mission, vision, and goals, were informed by extensive outreach and consultation with diverse parties over a period of many months, which is summarized in Appendix A. Implementation of the plan will help UH succeed in its primary mission and achieve its intended purpose in a way that is consistent with its core values.

1.1 UH’S MISSION AND PURPOSE ON MAUNAKEA

UH’s mission and purpose on Maunakea, and therefore CMS’ mission, is:

> Sustainably steward Maunakea for the benefit of our communities, Hawai‘i, and the world, as a publicly-accessible learning landscape where all who visit learn, and those who seek something more discover through rich multi-cultural experiences and engaging multi-disciplinary discourse. Provide equal opportunities across the schools of the UH system and community partners to engage with the mauna in ways that perpetuate and advance knowledge, wisdom, and values while fostering mutual understanding and respect.

As mentioned above, this mission statement captures why UH operates on Maunakea. It draws on existing mission statements of those UH programs and units that directly oversee and/or engage in actions on Maunakea and whose direction, interests, and concerns this plan supports. Appendix B provides a summary of the existing mission statements of those UH programs and units.
#139

Posted by Casey Kekiwi on **10/12/2021** at **7:25am** [Comment ID: 158]

Type: Suggestion
Agree: 0, Disagree: 0

I agree! Create a truly educational experience by showing the Hawaiian Culture, Belief, and even Sciences!!

Teach about star navigation up there.

#140

Posted by Kaʻiu Kimura on **10/18/2021** at **12:18pm** [Comment ID: 187]

Type: Correction
Agree: 0, Disagree: 0

I thought this name changed…

#141

Posted by Anonymous on **10/22/2021** at **10:26pm** [Comment ID: 218]

Type: Suggestion
Agree: 0, Disagree: 0

Community partners should abide by the customs from the Kanaka Maoli community, especially stakeholders who most likely do not know anything about Kanaka Maoli culture or have never set foot in Hawai'i or outside of the popular, visited areas.

#142

Posted by Eli on **10/13/2021** at **11:56am** [Comment ID: 178]

Agree: 0, Disagree: 0

For decades, Kanaka Maoli have been advocating for the protection of Mauna Kea. There have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the TMT (thirty meter telescope) on Mauna Kea. Over half a million indigenous and residents of Hawai‘i, and others around the world oppose the building of the TMT. A look into history will show that it might be best to listen to the actual people of the land.

#143

Posted by Anonymous on **10/22/2021** at **10:31pm** [Comment ID: 219]

Agree: 0, Disagree: 0

Given the continuous history of colonization and disrespect and erasure of Kanaka Maoli, non-Kanaka and especially non-locals and non-residents should first respect Kanaka Maoli and their culture before demanding Kanaka Maoli respect others who are visiting.
#144

Posted by **mellow023** on **10/25/2021** at **6:03pm** [Comment ID: 339]

*Agree: 0, Disagree: 0*

I strongly doubt the values of this master plan and its claims of taking care of the mountain because the Comprehensive Management Plan has not been enough in protecting the mauna in Natural or Cultural perspective. None of the 13 existing telescopes have been decommissioned when called to. Trash was never taken out, left accumulating on the Mauna. Chemical waste spills were not treated correctly. The values of this document do not align with the people, so if you truly are listening to the people, you should stop this master plan DRAFT.

#145

Posted by **mellow023** on **10/25/2021** at **6:03pm** [Comment ID: 338]

*Agree: 0, Disagree: 0*

The mauna is not a place for people to go. Mauna Kea is wao akua and cities are wao kanaka. We should not be holding commercial tours or films. Mauna Kea is a temple and should be treated as such. She deserves peace and protection, which this document lacks. Moreover, asking non-Hawaiian residents to pay a fee puts a lot of kanaka maoli living on turtle island in this category. Why should kanaka maoli pay an entrance fee when coming home. Moreover, there is an overwhelming opposition to the TMT project from kanaka maoli and allies, and these are the voices that should be prioritized to prevent further damage done by settler colonialism.

Also, TMT should never be used to change the economy of Hawai'i. Yes, Hawai'i economy could benefit from sources other than tourism, but it should not be in forms of oppression like TMT. Hawai'i’s economy should build from community efforts and gifts, using those to create sustainable and in harmony with Mother Earth.

#146

Posted by **William K Rosehill** on **09/12/2021** at **2:36pm** [Comment ID: 31]

*Agree: 0, Disagree: 0*

I am Kahuna Kukulu Wa‘a (Expert Ancient Canoe Builder). This is the lost (forgotten) term used to identify canoe builders of Old. Kahuna Kalai Wa‘a has been misused in recent times and is a term taken from Kalai Kī‘i, to carve Kī‘i. A canoe is built, not carved.

As Kahuna Kukulu Wa‘a, I favor TMT and all scientific, educational, and astronomical efforts to advance "Ike" (Knowledge) of the Hawaiian people, their culture, and the world. Ike has always been of utmost importance to the Hawaiian people. Adzes were hewn from Mauna Kea basalt. Without utilizing Mauna Kea’s pahoehoe resource, the Hawaiian culture would not have evolved. For without canoes, who would the Hawaiians be?

The adze quarries symbolize use of Mauna Kea resources to further Ike relative to canoes astronomy, and navigation. They must be preserved for future educational opportunities for Kahuna Kukulu Wa‘a and students.
I have been building koa canoes since 1975 in Kona. I am a Hawaiian Forest Restoration Consultant by profession. By education, I am a Kamehameha Kapalama graduate of 1968 and earned a BS degree from UH Manoa in Tropical Agriculture. If I can be of further assistance, please contact me.

Bill Rosehill
1.2 UH’S VISION FOR MAUNAKEA

Upon adoption of this Master Plan by the BOR, UH’s vision for the lands that it manages on Maunakea will be:

Maunakea, a revered mountain, where landscape, community, and culture combine to inspire discovery, renewal, and world-class education and research.

Astronomy was the original motivation for UH’s involvement with Maunakea, and we anticipate that it will remain central to our activities on Maunakea. At the same time, the decades-long relationship has deepened and evolved to the point where today its Vision is much broader than was initially the case. At the heart of its Vision for the UH Maunakea Lands is the recognition that being allowed to carry out research on Maunakea requires one to mālama Maunakea, a place deeply rooted in culture and rich in ancestral knowledge. Accordingly, UH’s renewed Vision recognizes that Maunakea’s cultural landscape and natural resources must receive the same respect as scientific research if astronomy is to continue and that preservation, education, and research should reinforce, rather than conflict, with one another. It also recognizes that UH must continue to observe the rights of cultural practitioners and be sensitive to the unique importance and symbolism that these lands have to Native Hawaiians.

Managing this precious area, UH recognizes that it must protect the area’s values:

- A culturally significant landscape and a recognized historic district with many contributing historic properties; who for some it is a wahi pana (storied/legendary place) and for others it is considered wao akua (realm of the gods).
- The premier location for astronomy in the Northern Hemisphere due to its unique topographic, weather, and astronomical conditions.
- Rare subalpine and alpine ecosystems in a tropical zone where species have uniquely evolved and adapted deserving of understanding and protection against human and environmental threats.
- A destination for Hawai’i residents and visitors seeking cultural, educational, recreational, and exploration experiences.

This Master Plan and the Comprehensive Management Plan (CMP) reflect and contribute to the achievement of the vision by creating the physical and administrative environment that supports exploration of humanity’s most basic of questions— who are we and from where do we come? The plan seeks balance among the diverse views that various members of society and culture hold regarding this question. The plan provides a framework to enable UH and the State to benefit from worldwide resources while sustainably stewarding Maunakea for the public’s benefit.

1.3 CORE VALUES ASSOCIATED WITH MAUNAKEA

The specific core values, i.e., precepts, that guide UH’s actions on the lands that it manages on Maunakea, are:

- Mālama (care for). Maunakea is a significant cultural and natural landscape. It is wahi pana and, to many, wao akua where ‘ike Hawai‘i and traditional Native Hawaiian cultural
The notion that Maunakea’s value is rooted in being a tourist destination for anyone--visitors or residents alike--is inherently colonial and part of the Manifest Destiny that supported such "exploration experiences" in the 18th and 19th centuries and to this day. Maunakea’s value should be determined by the stories and histories of people indigenous to this place, the Kanaka Maoli. We know Maunakea to be important because it is the center of our cultural and spiritual worlds. To relegate it to a "destination" or even a "premier location for astronomy" is to dilute its inherent value drastically. It cannot be both.

It is a fact that there are two lichens (Pseudephebe pubescens and Umbilicaria pacifica) that are endemic (specifically) to Mauna Kea - and at least one - Pseudephebe - occurs on the proposed TMT site. While Pseudephebe was mentioned in the first TMT Contested Case Hearing (including that any construction was to avoid the location of Pseudephebe colonies) - in the second TMT Contested Case Hearing - every attempt was made to NOT mention Pseudephebe, and in fact, testimony of the university expert not only did NOT include Pseudephebe in his "list" of lichens on the parcel, but tried to NOT discuss its rarity and occurrence on the parcel, or that earlier testimony suggested building away from it. Pseudephebe should be listed as endangered. However, the strategy involved seems to be clear - to hide important facts so the TMT can be built! Which suggests that this proposed document is full of smokescreens (to enable astronomy to prosper on the mountain, despite the cries and practices of cultural practitioners)!

If you were actually doing this, you would not be forcing more construction without the consent and against the will of the Native Hawaiian people. I think any steward of Mauna Kea should recognize, affirm and protect the delicate ecosystems and cultural and spiritual integrity of Mauna Kea. That said, you contradict yourself by planning on supporting more telescopes and the construction of TMT.
Thank you for this opportunity to comment. I am a UH alum and current staff. Beyond going through the formalities of community feedback, I would love to see UH and the state compromise more to the benefit of Native Hawaiian people and culture. The vast majority of respected Hawaiian cultural practitioners—those who have devoted their lives to studying and practicing Hawaiian values—have clearly argued for the halt of more telescope construction and the rest and restoration of the mauna. Hawai‘i needs to honor the native land and people and prioritize the good of the land and people over Western capitalist interests. For decades, including with many previous telescopes, Hawai‘i has prioritized outside interest and capitalism instead, to the detriment of much of the local and Hawaiian communities and land, and still, the state struggles with financial stability—this is not working. Even academic interests such as the pursuit of Western scientific knowledge should not come at the cost of ignoring the protests of the host culture. UH and the state must stop ultimately disregarding Hawaiian cultural community leaders—there is talk of a "balance" of interests, but there is no balance when one side's interest is prioritized repeatedly. UH and the state are guests in Hawai‘i and must use their power to do what is just and right by our community, especially Native Hawaiians. What is just and right is being clearly set forth, in this case, by the largest group of Hawaiian leaders to have united in decades, and we need to trust their knowledge and opinion. There are other things the state can and should invest in to make money. UH and the state have benefited hugely from the telescopes for decades and should be grateful for that. It is time to give back selflessly and move on to a more sustainable pursuit that is built through true partnership with the Hawaiian community from the start. Me ke aloha, EC

#151

Posted by Abby on 10/20/2021 at 2:41am [Comment ID: 198]

Earth, we come from Earth. Humans, we are humans. That question has been answered already through basic science, mythology and legends, and both written and oral histories and traditions. To further explore that question mankind does not need another telescope.

#152

Posted by James O Juvik on 10/06/2021 at 12:02pm [Comment ID: 116]

Rapid alpine climate change (warming trends is clearly documented at 11,000 ft on adjacent Mauna Loa (NASA MLO) over the past 65 years) need to be more seriously monitored on the UH summit lease lands, and where possible mitigation measures implemented. A plan to instrument a research grade network of meteorological environmental station was developed some years ago but never implemented,
### #153

Posted by **Anonymous** on **10/22/2021** at **10:50pm** [Comment ID: 224]

*Agree: 0, Disagree: 0*

Not only the public's benefit, but first and foremost, above all else, is for the benefit of Kanaka Maoli, their ancestors and descendants, and their culture.

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### #154

Posted by **dgarcia2727** on **10/26/2021** at **11:10am** [Comment ID: 451]

*Type: Correction*

*Agree: 0, Disagree: 0*

There is no sustainable stewardship without those who have ancestral connections to the land that's being stewarded. In this case it would be Native Hawaiians not UH or the State of Hawaii who have only caused harm to Mauna Kea.

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### #155

Posted by **Anonymous** on **10/22/2021** at **10:43pm** [Comment ID: 221]

*Agree: 0, Disagree: 0*

For one to malama Mauna Kea, ALL must malama, which means every single person even remotely involved in this plan and intending to visit this sacred place must abide by the customs from Kanaka Maoli the way they honor the mauna, especially those not from home or who have no connection to the land whatsoever.

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### #156

Posted by **Joy Yoshina** on **10/26/2021** at **12:23pm** [Comment ID: 473]

*Type: Correction*

*Agree: 0, Disagree: 0*

What is UH's definition of wao akua and wahi pani? We should avoid all religious bias - if anything, only use wahi pani (legendary place). Too much emphasis on Hawaiian culture, religion, beliefs.

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### #157

Posted by **Lisa Akana** on **10/25/2021** at **11:07pm** [Comment ID: 383]

*Type: Suggestion*

*Agree: 0, Disagree: 0*

I an recall during the Perseid meteor shower Hawaii 2019 watching from the visitors center area, countless numbers of headlights of huge tour 4 wheel drive tour buses and vans driving to the summit area, they kept coming for hours. We felt sad and worried for the Mauna and the road. It did not seem to be a careful or respectful way to protect Mauna Kea. Science is important, Mauna Kea is sacred an it can be exploited and physically worn down. That was just one night on the Mauna and it did not bode well for the future of UHH stewardship of Mauna Kea.
Everyone must not only be sensitive to the topic, but practice cultural humility and make the effort to learn more and follow the rules and customs of Kanaka Maoli culture and not just know or be aware of their practices.

Part of the answer to this question in relation to Mauna Kea, as was briefly mentioned earlier in this plan, is in the Kumulipo. As well as where did we come from in terms of astronomy? Look towards the ancestors of Kanaka Maoli and how they have learned astronomy the natural way before machines and other materials were invented. By understanding, learning, and incorporating that, you can partially answer that question.

There is no sustainable stewardship if it is not led by those who are deeply connected to the land. In this case, it would be Native Hawaiians not UH or the State of Hawaii who have only caused harm to Maunakea in the past.

If you are sensitive to the unique importance of Mauna Kea to the Hawaiian people, you wouldn’t build a gigantic building on a place so sacred. And yet you won’t stop. Native Hawaiians have been constantly an afterthought, a people that have gotten in the way of development. And yet you forget that this is our land!!! Imagine demolishing the Notre Dame church in Paris. A place so sacred and full of history. That is like the mauna to us. ‘A’OLE TMT!!!

Given that Mauna Kea is such a prime site for education as well as a strongly connected place for Kanaka Maoli, astronomy should be taught the way Kanaka Maoli and their ancestors have learned to chart the stars: with their eyes and natural environment, not with huge machines or light pollution. The best tools are the ones
readily made available to you and the ones there already.

#163

Posted by Heluhelu on 10/26/2021 at 10:27am [Comment ID: 436]
Agree: 0, Disagree: 0
As long as TMT is included in your plans you are not respecting the people of Hawai‘i.
practices were born and are exercised. It is where species have evolved to adapt to the unusual conditions existent on the mauna and where geography and climate come together to create unmatched astronomical viewing conditions. It is also where residents and visitors come to recreate. UH respects cultural practice and honors its privilege, commitment, and responsibility to support access to and use of resources that is balanced across the many values ascribed to Maunakea.

- **Kuleana** (responsibility or privilege). The UH Maunakea Lands are held in trust by the State for the benefit of Hawai‘i’s people. Access to these lands shall be managed in a manner that balances the public’s right to access with UH’s obligation to: (i) protect and conserve their natural, cultural, and scientific resources; (ii) responsibly manage actions and activities; and (iii) protect public health and safety.

- **ʻIke Hawai‘i; Nohona Hawai‘i** (traditional knowledge; traditional practices). Our stewardship and educational programming will integrate traditional knowledge and practice to strengthen our care for Maunakea’s resources and people’s understanding and connection to place.

- **Mau loa** (a long view). UH will responsibly steward the physical, scientific, and biological resources present on Maunakea so that their vital ecosystem functions continue for future generations.

- **Laulima** (cooperation). As a public resource, UH is committed to broaden participation of Native Hawaiians and the community in its planning and programs for Maunakea. We encourage all people to come together in shared responsibility to collaboratively protect and learn from this special place.

- **Kūpono** (trustworthy). Stewardship of the mauna and ensuring that Maunakea’s unique astronomical resources remain available for the continued advancement of science, education, and astronomy requires organizational and economic stability. UH will seek to maintain a level of trust and decision-making certainty that allows the continuation of responsible stewardship in partnership with the public, stakeholders, and the astronomy community.

These core values were developed with consideration for the values of other UH programs and units that either oversee actions on Maunakea, conduct actions on Maunakea, or are otherwise tied to UH activities on Maunakea. These include the values expressed in various UH system, UH Hilo, and ‘Imiloa plan documents (Appendix B).

### 1.4 GOALS AND OBJECTIVES

The goals and objectives described below are concise statements of what needs to be achieved to fulfill the vision expressed in Section 1.2, accomplish the mission and purpose expressed in Section 1.1, and promote the core values in Section 1.3.

#### 1.4.1 RESPONSIBLY STEWARD MAUNAKEA FOR PRESENT AND FUTURE GENERATIONS

Referred to as the “Stewardship Goal,” UH is committed to steward Maunakea by working with all Maunakea stakeholders to further a collective understanding of, respect for, and protection of
#164

Posted by **Abby** on **10/20/2021** at **2:45am** [Comment ID: 199]

*Agree: 0, Disagree: 0*

Your values do not align with your actions.

#165

Posted by **ku ching** on **10/07/2021** at **11:49am** [Comment ID: 131]

*Agree: 0, Disagree: 0*

The rights of cultural practitioners in Trust far outweigh the university’s obligations by contract (that is further restricted by a termination date)!

By the way - if the university is so righteous, Why is the university NOT IN COMPLIANCE with Section 2.2.4 of the Decommissioning Subplan of the Mauna Kea Comprehensive Management Plan (as it pertains to the TMT Sublease and bonding or surety requirements)? You can email me your response to this question! In fact, the question necessitates a public response!

#166

Posted by **Veronica Ohara** on **09/13/2021** at **12:52pm** [Comment ID: 42]

*Agree: 0, Disagree: 0*

My understanding is the astronomy community is committed to taking care of the mountain, and the future generations of Hawaii. The Maunakea Scholars Program is an excellent example of the long view, cooperation and indicates the trust we can place in them. No other group of observatories have worked so hard to make viewing time, and help from the best astronomers in the world available to high school students. Even more, students from high schools all across our islands. Also since the pandemic began the local astronomy and space community have printed face shields, sewed face masks, participated in school supply drives, and helped hospitals on the Big Island. The astronomy community participates on every level when it comes to families in need in Hawaii.

#167

Posted by **Anonymous** on **10/22/2021** at **11:01pm** [Comment ID: 228]

*Agree: 0, Disagree: 0*

What do you mean by "broaden participation"? Please be specific and describe how much participation will be made by Kanak Maoli specifically. Will they have a seat and voice at the table and will they actually be heard and respected or will they be token figureheads for visibility and not serve as actual consultants for the management and protection of the mauna? They should be the first people to turn to for resources in the management and care of the mauna over anyone else.
UH speaks on the core values and goals surrounding the construction of the TMT on Mauna Kea, and yet there is undeniable irony around this, as the construction itself lacks true values and stewardship of land. If UH truly believes this is sacred Native Hawaiian land, AS HAS BEEN BULLETED IN THIS DRAFT, there would be no building of a monstrous telescope to being with (in addition to 12 previously existing ones, that have not been decommissioned). You speak of privilege and responsibility right here in the opening pages of this master plan, and yet those who are heading this project are not being responsible towards the land and its native people, nor are they acknowledging the real privilege here. Privilege to take and take and take from native and indigenous people, pretend to care, and then go ahead and keep taking. Privilege to use the language of native communities against the very wishes of these same NATIVE communities. Privilege to extend these open comment sessions, knowing they will be hugely, if not entirely, overlooked in the end if it doesn't agree with their original plan. Privilege to continue the oppressive patterns of colonization for the "betterment" of those who are already sitting in the seats of privilege. I strongly advise the University of Hawai'i to reconsider this project as it is the utmost form of disrespect to our native and indigenous communities.

I don’t support use of “recreate” in the vision. The mauna summit area needs to be approached with reverence and awe. Snowboarding, filling the truck bed with snow, running and sliding around, throwing rocks, and goofing off have no place above Halepohaku. Hiking with care and absorbing the views are fine. Huge crowds of tourists stomping around is not.

And what is this "traditional knowledge" you mention here that I have only seen for the first time this far into the document? You've superficially touched upon the ongoing debate over this sacred place, but not how Mauna Kea was traditionally used by Kanaka Maoli for astronomy.
first time this far into the document? You've superficially touched upon the ongoing debate over this sacred place, but not how Mauna Kea was traditionally used by Kanaka Maoli for astronomy.

#172

Posted by **pi314** on **10/25/2021** at **5:53am** [Comment ID: 279]

*Agree: 0, Disagree: 0*

Another neglected goal and objective is to continue to support the low-land use, high-paying support infrastructure for astronomy and related work. Millions of dollars of external non-academic funding each year support various businesses that were developed to provide support to the astronomical research community. Without the local astronomical research and expertise, this funding would disappear, along with the hundreds of jobs on Hawaii, Maui, Kauai, and Oahu.

#173

Posted by **MalamaHawaii** on **10/04/2021** at **9:43am** [Comment ID: 85]

*Agree: 0, Disagree: 0*

These are worthy goals but UH and the state need to remain focused on the scientific purpose and the boost to the state. If listening to the Native Hawaiian voices continues to mean no progress ever without endless debate, if it continues to mean that a loud minority overrules science, reason and the majority of the community wishes, this will be a futile plan, never to be implemented. Listening to Native Hawaiian voices has become synonymous with never taking action, in trying to mediate age-old grievances which have nothing to do with Mauna Kea. These delays have already affected the state’s reputation with scientists, affected the economy and given a few loud speakers even more confidence that they can stop progress. Hawaii needs to move forward, not endlessly stall. Yes UH needs to be a better steward. Yes, protecting the natural resource that is Mauna Kea is important and yes, allowing bona fide, legitimate cultural practices to take place is important. But let’s not continue to fall into the trap that every move forward is impeded by a few individuals and the latest “culturalpractice” that they invent.

#174

Posted by **CP** on **10/26/2021** at **8:41pm** [Comment ID: 520]

*Type: Suggestion
Agree: 0, Disagree: 0*

Along the lines of earlier comments- even if UH continues being the primary steward appointed by the State for this next round - the Kuleana should be that is moving away from being that sole 'leader' - moving into a transition phase of sorts, taking their responsibility as one of being in the role of transitioning leadership management away from colonizer systems and back into indigenous leadership. Words, intention and really visioning into the future critical.
Posted by HiloResident on 10/06/2021 at 11:58am [Comment ID: 114]
Type: Suggestion  
Agree: 0, Disagree: 0
Is there any evidence to support this claim?

#176

Posted by Anonymous on 10/22/2021 at 11:05pm [Comment ID: 230]  
Agree: 0, Disagree: 0  
Are any of the stakeholders of Kanaka Maoli descent with an actual deeply rooted connection to the mauna? Those who should have a say and control over this are Kanaka Maoli themselves.

#177

Posted by Anonymous on 10/22/2021 at 11:04pm [Comment ID: 229]  
Agree: 0, Disagree: 0  
None of the Kanaka Maoli and kia‘i that are fighting for the mauna have been considered in this. When overseeing and conducting actions on the mauna, who knows the mauna better than Kanaka Maoli themselves, who have been here for longer than any of us currently alive.

#178

Posted by Anonymous on 10/22/2021 at 10:53pm [Comment ID: 225]  
Agree: 0, Disagree: 0  
First and foremost, above all else, it is the right of Kanaka Maoli to access this sacred site before any others as they have deeply rooted connections to this land and the mauna before any of us currently alive were born. Putting their needs and concerns first is the only right way of approaching this.
Maunakea’s cultural landscape and diverse natural and astronomical resources. UH recognizes that Maunakea is a distinctive and revered mountain and acknowledges Native Hawaiians unique responsibilities to the care of the mountain through their religious and cultural practices. Accordingly, in carrying out the astronomical research that is the single most important reason for its position on the mountain, UH:

1. Embraces its responsibilities to Native Hawaiians, respecting their religious and cultural practices;
2. Dedicates itself to the protection of the landscape and the flora and fauna that have evolved in its isolated ecosystems;
3. Dedicates itself to the pursuit of the many non-astronomy research and educational activities for which Maunakea is especially well-suited; and
4. Will limit astronomical research facilities and projects to only those for which Maunakea is particularly well-suited.

Objectives under this Stewardship Goal include:

- Guide human activities on the mountain in a way that minimizes their adverse effects and is sustainable.
- Protect, maintain, and restore the cultural landscape and natural resources by implementing the CMP management actions.
- Affirm and protect Maunakea as a wahi pana and wao akua.
- Provide educational and other programs to ensure public activities are conducted in a manner that respects Native Hawaiian practices, does not unduly impact the environment, protects and sustains resources, and maintains human health and safety.
- Build relationships between the mauna, its special caretakers, and the broader community.
- Limit permitted commercial activities to those which support the stewardship of Maunakea’s resources.

UH commits itself to doing its utmost to ensure that present and future generations can reach their own understanding of the connections and complexities of Maunakea’s cultural landscape, historic sites, and natural resources. Accordingly, it will strive to protect these rich resources. UH will not work alone in pursuing these commitments. Instead, it will continue to develop community partnerships that support hō‘ihi (respect) by all who visit, work, and engage in cultural practices on Maunakea. It will also continue to enhance an understanding of and respect for the beliefs and practices of kanaka maoli (Native Hawaiian), whose relationship with the mauna is historic and is significant to their health and welfare. Increasing the engagement of Native Hawaiian students, Hawai‘i Island residents, and residents of the State of Hawai‘i in stewardship is a primary means for broadly sharing the many lessons Maunakea has to offer our community, and UH will proactively seek the funding and other support needed to do that.
#179

Posted by Anonymous1 on 10/26/2021 at 11:05am [Comment ID: 449]

Type: Suggestion
Agree: 0, Disagree: 0
Add: Submit construction plans to Native Hawaiian community for approval upon majority vote.

#180

Posted by Abby on 10/20/2021 at 2:48am [Comment ID: 200]

Agree: 0, Disagree: 0
If your entire organization left that land there would be no actual loss. Take that in for a moment. The land would continue to grow and flourish as it should. If you have to minimize harm you are still doing harm.

#181

Posted by Uilani Naipo on 10/26/2021 at 6:38pm [Comment ID: 492]

Type: Suggestion
Agree: 0, Disagree: 0
I prefer to see this list 1-4, that #2 be listed 1st.

#182

Posted by HiloResident on 10/06/2021 at 12:02pm [Comment ID: 115]

Type: Suggestion
Agree: 0, Disagree: 0
We are not a faith-based state and I don't believe anyone should be forced to respect anyone else's beliefs or religion. This should be rephrased to embrace the tolerance of people's individual beliefs.

#183

Posted by shennessey on 10/25/2021 at 11:24pm [Comment ID: 390]

Type: Suggestion
Agree: 0, Disagree: 0
"Affirming and protecting Maunakea as a wahi pana and wao akua" requires ceasing all development and plans for development on the mountain. Wahi pana cannot remain sacred with colonial and unlimited development, not to mention the literal realm of the gods, which should not have people in them at all. It is not possible to maintain both the goal of 1.4.1 Responsibly steward Maunakea for present and future generations and 1.4.2 Maintain the university's status as leaders in astronomy--because responsibly stewarding Maunakea does not involve development.
Outreach and decentralizing education efforts will both limit the need for expansion of facilities at the Mauna and reach a larger pool of locals and tourists at places and times where they may be more receptive to learning. Spending substantial funds to build buildings and parking lots in a sensitive place is not the only way to increase visitor education efforts.

#185

This should be the primary goal.

#186

again, list this in the recommended order: 3rd bullet item, 2nd, 4th, 1st, 5th, 6th

#187

As a Hawaii resident and more importantly a native of this ʻāina, I do not consent to building the Thirty Meter Telescope on Maunakea.

#188

Building the Thirty Meter Telescope seems to contradict the Stewardship Goal.

#189

The goals should also include responsible economic use - the observatories provide higher paying jobs for local people with significantly less overall environmental impact. If one measures environmental impact per dollar, a hotel resort is far worse than any site on Maunakea. The total impact on the land is much less, and such employment is not subject to the vagaries of the world economy, as we have seen with the COVID-19 pandemic. Over $100 million dollars per year in the near future is not a small amount of
help to the struggling Hawaii Island economy.

#190

Posted by CP on 10/26/2021 at 8:49pm [Comment ID: 523]
Type: Suggestion
Agree: 0, Disagree: 0
The details of these statements are where conflict comes up. This needs to be very clear on what this actually looks like. Developed with the thoughts of those who currently critique UH integrated.

#191

Posted by Ren Star on 10/26/2021 at 10:48am [Comment ID: 446]
Type: Suggestion
Agree: 0, Disagree: 0
If this involves building on the land, it is not respecting the land, the people, or the planet. Use technology to find a way to utilize existing facilities and optimize those in a way to improve research, instead of building on sacred or otherwise untouched land simply for the sake of research/education. Being the best university means achieving without causing harm, even when some deem "it is well-suited". It is not well-suited if it violates in any way the planet or the Hawaiian people. We need to learn how to meet our needs without harming the planet or communities.

#192

Posted by Anonymous on 10/22/2021 at 11:12pm [Comment ID: 231]
Agree: 0, Disagree: 0
One of the many non-astronomy educational activities must include the accurate education of Kanaka Maoli history and culture taught by actual Kanaka Maoli with deeply rooted connections to the 'aina. If one of the goals that have been advertised and used to persuade support for this plan is to open more jobs for residents, then this would be the perfect opportunity to employ actual Kanaka Maoli with deeply rooted connections who will properly care for the land and share the true history of the land and culture.
1.4.2 MAINTAIN THE UNIVERSITY’S & MAUNAKEA OBSERVATORIES’ STATUS AS WORLD LEADERS IN ASTRONOMY

Referred to as the “Astronomy Goal,” UH endeavors to maintain its’ and the Maunakea Observatories’ (MKOs) status as world leaders in astronomy. Maunakea is an extraordinary site for ground-based astronomical observations, arguably the single best site on Earth. This was what first brought UH to Maunakea and allows UH to support stewardship and other educational/research efforts there. If the Astronomy Goal is not realized, the other goals will suffer proportionally.

The astronomers who conduct research with the existing Maunakea astronomy facilities, in partnership with UH, are world-leading sources of scientific knowledge about the Universe, and UH seeks to ensure the continuation of astronomy on Maunakea for years to come so that its students, faculty members, and associated scientists have the greatest opportunity to participate in research that is critical to fully understanding humanity’s place in the cosmos. UH’s efforts will enable Maunakea to continue to be a place where researchers from diverse cultures and institutions collaborate and expand the boundaries of discovery. UH is confident this goal can be achieved while reducing the impact from astronomy facilities, including reducing the number of facilities in the MKSR, so long as the area is administered in a way that allows existing facilities to be modified to accommodate changing technologies or the sites are recycled for use by more advanced astronomy facilities from time to time.

Objectives under the Astronomy Goal include:

- Facilitate UH’s attraction and retention of leaders in the field of astronomy by providing continued access to their own and their partners’ facilities on Maunakea.
- Maintain UH’s leadership position in astronomy on Maunakea through its cooperative agreements with the MKOs and its own facilities.
- Facilitate an appropriate mix of observational and support facilities that are collectively able to help answer important scientific questions.
- Maintain the physical and administrative environment necessary to continue cutting-edge astronomy on Maunakea.
- Protect astronomical viewing resources by avoiding, minimizing, or mitigating activities that directly conflict with astronomical research.
- Guide the location, character, size, mass, color, and other physical attributes of astronomical facilities in ways that minimize potential adverse effects on the environment while optimizing their productivity.
- In partnership with the MKOs, foster community relationships that strengthen engagement and contribute to building a shared vision for astronomy on Maunakea.

This goal and associated objectives recognize that Maunakea’s astronomical viewing conditions are a resource worthy of preservation and utilization and that observations made using Maunakea astronomy facilities consistently generate widely recognized discoveries that are beneficial to all humankind. UH will continue supporting the vision of a knowledge-based economy sought by the
One could argue that if the Astronomy Goal IS realized, the other goals WILL suffer proportionately, particularly the goals of protecting Mauna Kea as wahi pana and wao Akua. If this reasoning is to justify defying the Kanaka majority and building TMT, UH will have divided, not unified, Hawaii residents. UH should not have the power to decide what is best for Mauna Kea. Let every project be voted on, giving Kanaka Maoli the right to reject any project for any reason. This is justice.

Add: Seek approval from Kanaka Maoli for all construction projects on Mauna Kea.

Let the leaders of opposition to any project organize the democratic process. If UH doesn't want to cause further injustice, give Kanaka the power to say no. This balance of power is more important than the Astronomy Goal.

Native Hawaiians do not consent to more telescope s being built on this land and the current telescopes are already causing catastrophic damage to the land

In favor of this section. The knowledge gained from Maunakea’s astronomical
resources belong to all of humanity, present and future. We are all one people on a
place called Earth. With all due respect to our political boundaries, Hawaiian community
values, and indigenous rights, the mauna existed long before people claimed it as their
territory. Taking the long view- mau loa, there may be global problems facing humanity
which require
the knowledge from these astronomical resources required for all peoples' survival.

#198

Posted by Sylvia Dahlby on 09/19/2021 at 3:12pm [Comment ID: 62]
Agree: 0, Disagree: 0
I support the UH's goal of maintaining the Astronomy District and Hawai's leadership in
global astronomy. I also applaud UH's commitment to reduce the number of telescopes
to no more than nine currently operating astronomy facilities on Maunakea by
December 31, 2033.

#199

Posted by Lehuakona on 10/25/2021 at 8:31pm [Comment ID: 349]
Type: Suggestion
Agree: 0, Disagree: 0
Please clarify what the specific impacts are from the facilities, particularly now that they
have been constructed. It seems best to make use of them into the future, given the
challenges and investments of their births on the mountain.

#200

Posted by dgarcia2727 on 10/26/2021 at 11:27am [Comment ID: 457]
Agree: 0, Disagree: 0
To what extent will UH go to achieve its astronomy goal? There needs to be more
transparency around this.

#201

Posted by randivalm on 10/24/2021 at 9:50am [Comment ID: 259]
Type: Suggestion
Agree: 0, Disagree: 0
Subject to being attuned to and balancing the other goals and objectives, this goal is of
paramount importance to us. Access to these facilities and the associated scientific
discoveries are among the key factors that influenced my husband's and my decision to
relocate to the Big Island in 2018, and we have since been deeply distressed by the
activist-type activities that have occurred in an attempt to quash astronomy and
innovation under the guise of honoring the Native Hawaiian culture and community.
While the Native Hawaiian culture and community are of keen importance, honoring
that culture and community and advancing astronomy in this one-of-a-kind location are
not mutually exclusive objectives. Mauna Kea existed well before there was a Native
Hawaiian community, and that community, along with the balance of residents here,
should recognize the unique opportunities to advance astronomy for the benefit of the world and to be identified as a world leader in this critical scientific field. Along those lines, we strongly believe based on our interactions within the community on the Big Island that the majority of residents - both Native Hawaiian and non-Native Hawaiian alike - very much support the University of Hawaii and Maunakea Observatories, and that those who have vehemently opposed these facilities are the loud vocal minority, some of whom don't even reside here and others who presumably have no other work or family obligations such that they can spend days, weeks, and even months protesting and adversely impacting the experiences of, and respect for science held by, the balance of residents on the Big Island. We remain hopeful that once we retire from our full-time work, we can become more involved in furthering the observatories’ goals and objectives.

#202

Posted by CP on 10/26/2021 at 8:54pm [Comment ID: 525]

Type: Suggestion

Mauna Kea and Environmental protection first. Technology can develop to those standards being first priority.

Per earlier comment- what if Mauna Kea became the first astronomical site with indigenous approval? A new rating system? That whatever trade offs might be made in securing the ‘current trending leading technology’ would be gained in the progressive social, cultural, environmental focus?

#203

Posted by Ren Star on 10/26/2021 at 10:52am [Comment ID: 448]

Type: Suggestion

Please stop considering building here. This is still unacceptable even with "considerations". The entire point is to leave the island alone and evolve our existing facilities and knowledge to work without needing to build at all.

#204

Posted by Anonymous on 10/22/2021 at 11:23pm [Comment ID: 233]

UH can maintain their leadership position by not needing machines or buildings at all. Incorporate the practice that ancient Kanaka Maoli have used to study the stars without the need for machines. Use the natural machines of human brains to study them. We don't need bigger machines just to show the world that UH is at the top of the astronomy field. Kanaka Maoli have been ahead of their time by only needing their brains and eyes at their disposal and not needing to rely on machines.

#205
Because Mauna Kea is planned site for this, first and foremost this place is connected to Kanaka Maoli culture. Before the collaboration from people of different cultures and backgrounds, a solid understanding and education, as well as a working practice of cultural humility and learning, of the host site and culture is the first thing that should be done before this sort of collaboration.
elected leaders of the State and County for more than 50 years, and that continues to be a part of Hawai‘i’s economic future.9

1.4.3 **DIVERSIFY EDUCATIONAL PURSUITS AND EXPAND RESEARCH OPPORTUNITIES**

Referred to as the “Education Goal,” UH will diversify its educational pursuits and expand research opportunities on Maunakea beyond astronomy for UH, for partner institutions and groups, and for the broader community. In addition to being an exceptional site for astronomy, Maunakea’s landscape, resources, and infrastructure provide opportunities for researchers in a myriad of physical and social sciences, including indigenous knowledge. UH will actively encourage and invite researchers and students to use it, facilitating Halepōhaku in support of their research and teaching so that they may learn from the natural, cultural, and social environment within and surrounding the UH Maunakea Lands.

Specific objectives under the Education Goal are to:

- Maintain the physical and administrative environment necessary to grow research and learning in diverse fields on Maunakea.
- Foster collaborations between leaders and researchers from diverse fields, cultures, institutions, and the community to enrich and extend the knowledge gained from work on Maunakea through multi-disciplinary research and cross-cultural discourse.
- Facilitate the foregoing by repurposing the Halepōhaku facilities as a Multi-Disciplinary Field Station to support a broader range of education and research.

The Education Goal and associated objectives recognize that the UH System is the state’s primary higher education provider, and that creating greater opportunities for educational and research programs on Maunakea can benefit and unite the System’s three universities, seven community colleges, and community-based learning centers across the state. Further, these Maunakea-specific objectives support UH’s overall efforts to expand its support of the science- and knowledge-based economy that is sought by Hawai‘i’s elected leaders.

While UH will continue its strong support for and involvement in astronomy on Maunakea, it will simultaneously strengthen its support of research and educational programs in indigenous, natural, and social sciences. UH also recognizes that kanaka maoli’s timeless knowledge regarding Maunakea, reflected in their observations shared in *mo‘olelo* (narrative story) and *mele* (song or chant), are no less significant than other knowledge and these will be acknowledged, protected, and expanded within UH’s management and curriculum. UH will incorporate Maunakea into its programming across departments within UH Hilo and across schools in the UH System.

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9 In 1964 the Hawai‘i State Legislature passed Senate Concurrent Resolution 16 (SCR 16) stating that the “State of Hawai‘i and its citizenry are most desirous and willing to co-operate and aid in the promotion of our nation’s space program and research to the benefit of the County of Hawai‘i, the state and the nation.”

The Hawai‘i 2050 Sustainability Plan (2021) and Hawai‘i Statewide Comprehensive Economic Development Strategy (2016), which draw on HRS § 226-10, 226-103, and 226-108, emphasize that it is the State’s policy to promote economic diversification and innovation to retain a workforce educated in science, technology, engineering, and mathematics (STEM).
#206

Posted by Uilani Naipo on 10/26/2021 at 7:01pm [Comment ID: 496]
Type: Suggestion
Agree: 0, Disagree: 0
This educational goal does not require to be part of this master plan in my opinion. This appears to be a scope creep as a way to hold space (ie, Hale Pohaku).

#207

Posted by Anonymous on 10/22/2021 at 11:36pm [Comment ID: 238]
Agree: 0, Disagree: 0
Funding for and accessibility to these programs and subjects should be expected increase substantially, then, through this statement, as well as the visibility and inclusion and consultation of Kanaka Maoli in these subjects.

#208

Posted by James O Juvik on 10/06/2021 at 11:27am [Comment ID: 108]
Type: Suggestion
Agree: 0, Disagree: 0
I spent many decades from the early 1970s taking /uhh and /uhm students to the upper slopes of Mauna kea for environmental/cultural field trips including climatological research, feral ungulate impact, alien species removal efforts and assessing human impact. Before the development of extensive infrastructure we stayed in the "stone cabin", origionally build by territorial forester Bill Bryan and the CCC in the late 1930s as a "public park facility" Once UHM Astronomy took over we were denied access to any overnight "non Astronomy" access to Halepohaku. Over several decades (1980-2010) I made repeated attempts (demands?) to have some under-used facilities there designated as a "field station" for educational use by UHH. To no avail! I am happy to learn you are now willing to repurpose these facilities at this late date (even if largely because Astronomers now mostly work remotely).

#209

Posted by 72@Honolii on 10/09/2021 at 11:33am [Comment ID: 134]
Type: Suggestion
Agree: 0, Disagree: 0
If the National Science Foundation becomes involved, will they abide by the master plan? You speak of oversight, but is there an authority that consistently monitors adherence to the plan? These details are left wanting.
Posted by Anonymous on 10/05/2021 at 10:26pm [Comment ID: 102]
Type: Correction
Agree: 0, Disagree: 0
Take out the extra "is" here.

#211

Posted by Veronica Ohara on 09/13/2021 at 1:04pm [Comment ID: 43]
Agree: 0, Disagree: 0
I am pleased to see UH will continue support for astronomy and Hawaiian culture. Recently observatories have been busy with Hawaiian language programs, we see them on social media. Just to be clear young Hawaiian astronomers have been working hard to make these available to everyone.

#212

Posted by Sylvia Dahlby on 09/19/2021 at 3:15pm [Comment ID: 63]
Agree: 0, Disagree: 0
I support UH Hilo Educational Telescope at Halepōhaku and outreach efforts.

#213

Posted by Anonymous on 10/22/2021 at 11:25pm [Comment ID: 235]
Agree: 0, Disagree: 0
The natural environment includes no development or buildings because that directly conflicts with the natural environment.

#214

Posted by Charlie Johnston on 09/27/2021 at 12:46pm [Comment ID: 81]
Type: Suggestion
Agree: 0, Disagree: 0
Science always seems aloof, we all reap the reward of science, but except for an elite few, most of us never have the chance to really experience science. Observatories are so few, and so many scientists book time that for the average person, there is NO chance to ever see the stars through an observatory.

We have a historic opportunity to meld Science with people. Here on the Big Island the fight over the observatories has caused a rift, partly because we the people don't see any benefit from science. Sure money can be spent to buy "goodwill" but bribes only work so much.

Why not take one of the observatories that is to be decommissioned, and instead dedicate it to the people of Hawaii? it is our island that will feel the effects of the observatories, that will see them daily, why can we not also have the experience of the observatories? If one observatory was reserved for the use of Hawaiian residents only, our children can experience science, can become fascinated with it. instead of there
being big white buildings that we can not touch, we the people of Hawaii can become part of experience, instead of just looking in through the locked gate.

#215
Posted by dgarcia2727 on 10/26/2021 at 11:32am [Comment ID: 458]
Type: Suggestion
Agree: 0, Disagree: 0
During my time as a student at UCSB, the most enriching experiences were when my morals weren’t in direct conflict with my education. You shouldn’t put your students and faculty in this difficult position where they have to decide between their education and a violation of Indigenous people’s rights.

#216
Posted by Anonymous on 10/22/2021 at 11:38pm [Comment ID: 239]
Agree: 0, Disagree: 0
This statement recognizes and is aware that Kanaka Maoli’s knowledge and deeply rooted connection is timeless and viewed as something valuable to be expanded in this management and curriculum. Therefore, including Kanaka Maoli at the table as indigenous and cultural consultants for the mauna and listening to and following their recommendations should be upheld.

#217
Posted by Anonymous on 10/22/2021 at 11:24pm [Comment ID: 234]
Agree: 0, Disagree: 0
As well as sought by Kanaka Maoli, first and foremost.

#218
Posted by Anonymous on 10/22/2021 at 11:27pm [Comment ID: 236]
Agree: 0, Disagree: 0
The first objective under this goal should be to ensure the teachings of the true history of the host culture where this project will take place, which is Kanaka Maoli culture towards non-natives, non-locals, and non-residents. And this teaching should be conducted by actual Kanaka Maoli with deeply rooted connections to the 'aina and culture.

#219
Posted by Anonymous on 10/22/2021 at 11:33pm [Comment ID: 237]
Agree: 0, Disagree: 0
This directly conflicts with what’s stated in the "Extending the Reach" section very early in this document: "the mauna is the teacher". The associated objectives must keep that in mind and rephrase this with that as the central focus. UH may be the vehicle for education, but they are not the teacher. The mauna is the teacher and we must learn
from her first before we can dare say that we will spread her teachings to others.
1.4.4 **SEEK BALANCE AND MUTUALLY BENEFICIAL RELATIONSHIPS AMONG MAUNAKEA’S STAKEHOLDERS**

Referred to as the “Balance Goal,” the goal is to seek balance and mutually beneficial relationships among those learning from, practicing on, and visiting Maunakea. UH firmly believes that astronomy, education, cultural practices, science-based environmental management, research, and responsibly-conducted public activities can coexist. There will inevitably be a need for trade-offs, but UH believes these can be made in ways that lead to mutual respect and advance sustainable stewardship.

Specific objectives under the Balance Goal are as follows:

- Maintain a physical and administrative environment that considers, provides for, and invites all manner of exploration, discovery, learning, cultural practices, and science on the mountain.
- In partnership with the Native Hawaiian community, determine the feasibility of, and develop plans for, establishing a hālau for ceremony and education on the mauna.
- Offer opportunities for compatible cultural, educational, scientific, and recreational activities and programs that are consistent with human health and safety, promote proper stewardship, and preserve resources.
- Seek opportunities for mutually respectful and beneficial collaboration among cultural practitioners, educators, and scientists.
- Involve community members and organizations in planning, policy development, and evaluation of UH’s stewardship of Maunakea.

The Balance Goal and associated objectives acknowledge that a wide range of purposes and practices are possible and that the cultural, educational, and scientific value of Maunakea extends far beyond astronomy. UH will continue to provide for and integrate cultural practitioners, scientists, educators, and the public through its collaborative, cooperative, and community-based stewardship program.

1.5 **STRATEGIES**

To achieve the goals and objectives set forth above, UH will pursue the following strategies with respect to its Maunakea Lands:

1. Involve the community in the decision-making process early and often through the CMS volunteer advisory groups (e.g., Mauna Kea Management Board (MKMB), Kahu Kū Mauna Council (KKM), and Environment Committee (EC)) and other outreach activities.

2. Seek diverse community representation on the CMS volunteer advisory groups.

3. Strive to address shortcomings to build stakeholder confidence and trust so that UH may be provided the opportunity to continue and improve its management, stewardship, and research beyond 2033.

4. Allow the establishment of only those new facilities that (i) support the mission, vision, goals, and objectives of this Master Plan; (ii) are consistent with the CMP; (iii) would
How is silencing the comment section and not allowing oral (virtual) testimonies during a "public forum" (on October 6) "involving the community"?

It is insufficient to have advisory groups when it is unclear what kind of power those groups have. It would be far more in line with the stated values of this mission to give a rotating seat on the board of directors to an elected member of the community council or some other vote making role. Otherwise, the position remains very paternalistic about "listening" instead of taking real input. Additionally, volunteer groups do not account for the time and work people have to put in to participating. If community groups aren't to be given clearly defined power, they should instead be compensated for their consultancy.

There has to be a stronger commitment rather than just "involve" ... how much are you willing to demonstrate to this - are you willing to say that at the next election, the Hawaii county voters/votes can be 51 percent of the decision-making on the top (3) items (to be defined), ... for example TMT, ...

This should be a part of the multidisciplinary use and education goals. Not a separate lower priority after thought.

ADD: Involve leaders of opposition to collaborate in the decision making process.
#225

Posted by Kali Linder on 10/25/2021 at 7:11am [Comment ID: 284]

Type: Correction
Agree: 0, Disagree: 0

UH should not "offer opportunities" for cultural practice. Native Hawaiians should be able to access Mauna Kea for cultural practices as needed when needed and rather should be offering UH "opportunities" to do research. UH needs to change perspective and approach. UH has long been abusing their power on the Mauna (and elsewhere) quite contrary to it's mission & vision. Enough already; it's time for a change.

#226

Posted by HiloResident on 10/06/2021 at 12:07pm [Comment ID: 117]

Type: Suggestion
Agree: 0, Disagree: 0

Be careful that this doesn't become an effort to support a particular religion using public lands and funds.

#227

Posted by Anonymous on 10/22/2021 at 11:40pm [Comment ID: 240]

Agree: 0, Disagree: 0

How will there be mutual respect and trade-offs if other parties hold more power over the others? That cannot be a balance if these stakeholders have more pull than Kanaka Maoli who have roots in these lands before anyone else who are currently alive.

#228

Posted by Anonymous on 10/22/2021 at 11:49pm [Comment ID: 243]

Agree: 0, Disagree: 0

There should be a board consisting of entirely Kanaka Maoli leaders and stewards with strong deeply rooted connections to the land and the mauna that should oversee the stewardship of Mauna Kea and should make decisions as to how to care for the land.

#229

Posted by Uilani Naipo on 10/26/2021 at 7:30pm [Comment ID: 503]

Type: Suggestion
Agree: 0, Disagree: 0

I think these objectives should be threaded into how the other goals are considered/measured/achieved/merited and NOT be made as separate goal to maintain balance.
Is there a plan to incorporate educational institutions into the studies being done? I.e. OHA, Kamehameha Schools, Ali Like, The Hawaiian Studies Dept. of UH...
I find it hard to believe that the Keiki of Hawaii lack the intellectual capacity to become premier researchers instead of nonnatives. Look at your demographics; perhaps you need to cast a wider net to find them.

#231

I support establishing a UH Hilo-led “Multi-disciplinary Field Station” at Halepōhaku to support field studies and learning experiences across disciplines. I agree that it's important to provide mechanisms to seek and consider input from the native Hawaiian community and the broader community in the decision-making framework.

#232

What does this mean by "compatible"? What if certain aspects are not "compatible" with the vision UH has for Mauna Kea? Will they simply be ignored to go forward with this plan because they do not align with the vision? We cannot pick and choose "compatibility" and "consistency" for this. All aspects must be accepted and compatible. The plan itself must align with what Mauna Kea stands for as a sacred place for Kanaka Maoli.

#233

How will UH involve the community in the decision-making? Will emails be sent out? Bulletins, announcements through the TV news, push notifications? How will UH ensure that all communities in Hawai‘i receive these notifications and invitations for making decisions regarding the mauna? If UH is committing themselves to involving the community, UH should ensure that all communities have equal access to these notifications and invitations to make decisions. For example, if there is a meeting going to be held regarding a decision to be made for the mauna, will the meeting only be in-person, will it be a hybrid, will it only be held in the afternoons or during weekdays? How will UH ensure that people from the community will be able to access and attend in any decision-making process? Keep in mind the privileges certain people and communities have over others, especially in Hawai‘i.

#234
Posted by **Samuel Gillie** on **10/26/2021** at **1:45pm** [Comment ID: 476]
Type: Suggestion
Agree: 0, Disagree: 0

In 3. Delete "to address shortcomings" too broad and undefined term

#235

Posted by **Pua Brown** on **10/25/2021** at **2:06pm** [Comment ID: 315]
Type: Correction
Agree: 0, Disagree: 0

You have had over 50 years of an opportunity to build trust and listen to the community. You have categorically failed to be a good steward of Mauna Kea. You have failed and do not deserve another opportunity. There is zero trust felt by Kanaka Maoli about the UH's management of Mauna Kea and your intentions when it comes to protecting Native Hawaiian rights or our interests.

#236

Posted by **Anonymous** on **10/22/2021** at **11:47pm** [Comment ID: 242]
Agree: 0, Disagree: 0

Who exactly are these "community members and organizations"? They should be Kanaka Maoli first and foremost because they are the ones who know the mauna the most and know the proper way to care for her. They are the original stewards of the mauna, and they should be treated as consultants for the stewardship of the mauna.
greatly benefit from Maunakea’s unique cultural landscape or unique natural resources; (iv) are consistent with applicable rules regulations, and permits; and (v) avoid, minimize, or mitigate adverse effects on existing facilities and practices.

5. Continue to sustainably steward Maunakea through the implementation of the CMP and this Master Plan. This shall include habitat restoration efforts.

6. Manage access to the UH Maunakea Lands in a phased and adaptive manner that (i) protects and conserves the cultural landscape, natural resources, and astronomical viewing conditions; (ii) responsibly manages activities to minimize potential adverse effects on the landscape and resources; (iii) protects public health and safety; and (iv) preserves the feeling of wilderness and sanctity in the summit region.

7. Work with the Native Hawaiian community to identify measures, policies, and facilities that will further reduce adverse effects to the cultural landscape and cultural practices and perpetuate ‘ike Hawai‘i (traditional knowledge) and nohona Hawai‘i (traditional practices).

8. Decommission a sufficient number of existing astronomy facilities to ensure that the number of operating astronomy facilities in the MKSR is no more than nine by December 31, 2033, and do not exceed that number throughout the remainder of the time covered by this Master Plan.

9. Execute agreements between UH and the entities that operate Maunakea astronomy facilities so that the parties to these agreements collectively provide the financial support and other resources needed to (i) provide public benefits for the community and state, with a focus on the Native Hawaiian community; (ii) implement the CMP and this Master Plan; (iii) provide education regarding Maunakea’s cultural landscape and natural resources; (iv) support the UH astronomy programs; and (v) maintain necessary infrastructure.

10. Facilitate the development of a new astronomical facility on Astronomy Site 13 and upgrade or repurpose up to three existing astronomy facilities in the MKSR over the 20-year period of this Master Plan.

Strategy 10 recognizes that there is some uncertainty regarding the Thirty Meter Telescope (TMT) project, which is permitted for Astronomy Site 13. Mauna Kea Access Road was blocked from July 16 through December 26, 2019, and construction of the TMT project was paused indefinitely. The U.S. National Science Foundation (NSF) is now considering funding that project; their funding may trigger federal review of the project prior to construction restarting. Should the TMT project not proceed on Maunakea, this Master Plan will continue to guide UH decisions on Maunakea including the future of Astronomy Site 13.

11. Actively pursue ideas and interest within and beyond the UH System for (i) the establishment of educational pursuits and curriculum that would utilize Maunakea as a learning laboratory; and (ii) ways the facilities, interactions occurring, and resources on Maunakea can be leveraged to provide for and support those diverse educational opportunities.

12. Repurpose substantial portions of Halepōhaku as a Multidisciplinary Field Station that supports diverse environmental and cultural educational activities.
#237

Posted by Uilani Naipo on 10/26/2021 at 7:49pm [Comment ID: 510]
Type: Suggestion
Agree: 0, Disagree: 0
I don't believe anyone UH or otherwise should be exploring opportunities to further increase footprint or access to the mauna till you know how to take care of it.

#238

Posted by HiloResident on 10/06/2021 at 12:12pm [Comment ID: 118]
Type: Suggestion
Agree: 0, Disagree: 0
There should not be an arbitrary number of telescopes located in the science reserve. If the telescopes can justify their benefit to the community, they should be allowed to operate.

Also make sure that the planned UH Hilo educational telescope is not included in the count for MKSR facilities.

#239

Posted by CP on 10/26/2021 at 9:08pm [Comment ID: 528]
Type: Suggestion
Agree: 0, Disagree: 0
This is a major component of what UH managing this into the future will need to focus on. Make this prominent and detailed, not vague. Flexible to change (master plans cover a lot of time many things evolve in that time), but very clear as to what fair compensation is.

#240

Posted by Nasreen Broomand on 10/26/2021 at 4:20am [Comment ID: 400]
Type: Suggestion
Agree: 0, Disagree: 0
No TMT on Mauna Kea ever! Desecrating sacred land is not worth it.

#241

Posted by Pua Brown on 10/25/2021 at 2:32pm [Comment ID: 323]
Type: Correction
Agree: 0, Disagree: 0
If you are trying to listen to our voices, and clearly also attempting to appropriate 'olelo Hawai'i judging by the title of this draft, why can't you hear the voice of the Native Hawaiian people who have been shouting at you, "NO MEANS NO"? No, you DO NOT have our consent to build more telescopes on Mauna Kea. Have we not been chanting
loud enough when we led ceremony on Mauna Kea 3 times a day for over 8 months, in
the freezing rain and hail? We have led countless demonstrations, marches, UH
student-led sit-ins, and an 8 month occupation of Mauna Kea to TELL YOU A'OLE
TMT. No thirty-meter telescope on Mauna Kea. Enough is enough. No means no.
There will be no new construction on Mauna Kea and the UH's lease is up in 2033.

#242

Posted by Kali Linder on 10/25/2021 at 7:13am [Comment ID: 285]
Type: Suggestion
Agree: 0, Disagree: 0
TMT will not be built on the Mauna nor should any new construction of telescopes.
Decommission those already on the Mauna that are outdated/no longer in use. And/or
update if possible.

#243

Posted by Anonymous1 on 10/26/2021 at 11:56am [Comment ID: 470]
Agree: 0, Disagree: 0
A'ole TMT

#244

Posted by Olivia Nohealani Guarna on 10/26/2021 at 3:04pm [Comment ID: 482]
Type: Suggestion
Agree: 0, Disagree: 0
Kanaka Maoli have a right to self determination and have made explicitly clear their
dissent to the TMT being built on Mauna Kea. I am Native Hawaiian and I oppose the
TMT project.

#245

Posted by Lehuakona on 10/25/2021 at 8:48pm [Comment ID: 354]
Agree: 0, Disagree: 0
This proposal adds value and greater purpose to an already built facility and gives it life
into the future, benefitting all the communities. Such a research station is greatly
needed to improve local educational opportunities.

#246

Posted by Melinda Sonoda-Pale on 10/04/2021 at 6:25pm [Comment ID: 95]
Type: Correction
Agree: 0, Disagree: 0
Obviously you weren't listening when thousands of Hawai‘i residents and native
peoples said NO to TMT.
Posted by Pua Brown on 10/25/2021 at 2:07pm [Comment ID: 316]
Type: Suggestion
Agree: 0, Disagree: 0
Stopping bombing our 'Aina!

#248

Posted by Anonymous on 09/16/2021 at 2:47pm [Comment ID: 61]
Type: Suggestion
Agree: 0, Disagree: 0
"UH Maunakea Lands" can't exist in the paradigm of the first 2 pages of bs you've written. Give up your lands and eliminate your Maunakea facilities.

#249

Posted by CP on 10/26/2021 at 9:02pm [Comment ID: 527]
Type: Suggestion
Agree: 0, Disagree: 0
What is actually meant by decommission? Re-purpose is understood. Decommission meaning full decommission and environmental restoration?

The number 9 - is this a number that all leading Hawaiian community organizations and kapuna have bought in on? I like it better than 14 but the Hawaiians need to feel mostly good about this.

And additionally, the number is great but locations and size are most important. Proximity to cultural sites, expanding development area these are the important details.

#250

Posted by drkthomp on 10/25/2021 at 8:57pm [Comment ID: 357]
Type: Suggestion
Agree: 0, Disagree: 0
The insistence of developing the TMT despite disapproval from the very voices your earlier fluff text claimed to support shows a gross gap between your words and your actions, and a lack of care for the true sacredness of the site.

#251

Posted by AKC on 10/25/2021 at 4:31pm [Comment ID: 337]
Type: Suggestion
Agree: 0, Disagree: 0
More than half a million people from the Kanaka Maoli community and their allies have contested the development of the TMT or any further astronomical facilities atop Mauna Kea. Their testimonies at hearings, petitions, marches, and occupation of the summit express a fundamental opposition to large scale construction projects. If you have any
intention of "listening to the voice", as you claim, the absolute least you could do is revise article 10 by changing the word "facilitate" to "terminate" and halting the construction of astronomical facilities altogether.

#252

Posted by sam nelson on 10/24/2021 at 4:05pm [Comment ID: 261]
Type: Suggestion
Agree: 0, Disagree: 0
I would support more telescopes on the mountain. Mauna Kea is a perfect place for astronomy, and I would support expanding the number of telescopes.

#253

Posted by CP on 10/26/2021 at 9:10pm [Comment ID: 529]
Type: Suggestion
Agree: 0, Disagree: 0
When I look at the map I see site 13 as an extension of the currently developed area-requiring more road, more development. And it is so controversial. Why the need to develop a new area? Especially with so much opposition. Let it go. Do better.

#254

Posted by Lehuakona on 10/25/2021 at 8:42pm [Comment ID: 352]
Type: Suggestion
Agree: 0, Disagree: 0
I strongly disagree with this goal. It is a result of politics, misinformation, and a failure to understand the differences among the telescopes in their capacities and scientific observations. What mother, having given painful birth to her children, could choose among their diversity which one should be eliminated? This goal serves neither science or cultural concerns. Removal of the telescopes will cause more environmental and thus cultural harm than leaving them in place. It was a meaningless, ignorant, and unsatisfactory concession to opponents, and should be re-examined.

#255

Posted by pi314 on 10/25/2021 at 5:55am [Comment ID: 280]
Agree: 0, Disagree: 0
I strongly disagree that the number of astronomical sites should be limited to 9. It was a big mistake to remove any telescopes. They should be upgraded over time. The overall benefit of astronomy to the State is overwhelmingly positive, and artificially limiting the number of telescopes makes no sense.

#256

Posted by Lehuakona on 10/25/2021 at 8:44pm [Comment ID: 353]
Agree: 0, Disagree: 0
This is an important goal. Mauna Kea will not fully achieve it's potential in astronomy without upgrades to technology.

#257

Posted by **Lcoelho23** on **10/13/2021 at 4:24am** [Comment ID: 169]
Type: Suggestion
Agree: 0, Disagree: 0
Find another spot for TMT. The ancient Hawaiian Gods won't let it work.

#258

Posted by **pahnelopi G mckenzie** on **10/25/2021 at 11:46am** [Comment ID: 295]
Agree: 0, Disagree: 0
No construction should start. Deconstruction of the old telescopes but god willing no new construction will ever happen

#259

Posted by **CP** on **10/26/2021 at 9:12pm** [Comment ID: 530]
Type: Suggestion
Agree: 0, Disagree: 0
Yes! But please dont focus all education at the site - or even worse and education center at the site. Bring Mauna Kea and astronomy into the community. Into schools, classrooms, tourist areas. Create partnerships that are flexible and adaptable.

#260

Posted by **Cassidy Bennett** on **10/25/2021 at 1:39pm** [Comment ID: 308]
Type: Correction
Agree: 0, Disagree: 0
Despite widespread resistance and disapproval from the Hawaiian community - which you acknowledge above - there is still a plan to develop TMT here.

#261

Posted by **Samuel Gillie** on **10/26/2021 at 1:48pm** [Comment ID: 477]
Type: Suggestion
Agree: 0, Disagree: 0
Delete "Native Hawaiian" all communities should be included.

#262

Posted by **sam nelson** on **10/24/2021 at 4:07pm** [Comment ID: 262]
Type: Suggestion
Agree: 0, Disagree: 0
If the TMT is not built, I would suggest not decommissioning some of the other
Your refusal to take the TMT plans off the table completely signifies your disregard for the vast opposition to the plans.

I do not suggest moving ahead with the development of TMT on Astronomy Site 13 due to concerns and widespread opposition from the Native Hawaiian community. As of a 2019 Civil Beat Poll the majority of Hawai‘i residents now oppose TMT on Mauna Kea, if the goal of this plan is to “Listen to the Voice” I would expect to see empirical evidence that a majority of voices now support TMT if its development is to continue.

This access management must include the right for Kanaka Maoli to practice their religious and spiritual customs first and foremost.
13. Transition from temporary and ad hoc visitor facilities and uses (e.g., portable restrooms and undesignated parking) in the MKSR to appropriately sized, dedicated facilities for these purposes.

14. Develop flexible, minimal-impact night sky viewing capabilities at Halepōhaku that support UH Hilo education programs and community outreach.

15. Facilitate the conversion of all wastewater facilities in the MKSR to zero-discharge.
Progressive sustainable design in all of this. Sometimes progressive simple. Not fancy.

A star gazing program is a rare attraction, valuable for cultural and scientific education and employment, for tourism, and to demonstrate why Mauna Kea is such a unique and excellent site for observations.

This is an important goal, particularly for safety reasons, but also to add to visitor enjoyment, increase employment and education opportunities culturally, environmentally and astronomically.

This should have already happened. Are you joking? What is currently happening to wastewater in the MKSR? Where is it being discharged?
2 BACKGROUND AND CONTEXT

2.1 PURPOSE OF THIS MASTER PLAN

The purpose of this Master Plan is to guide UH’s consideration and prioritization of proposed land uses within the UH Maunakea Lands in a manner that is consistent with UH’s mission and purpose, promotes its vision for the lands that it manages, and contributes to the achievement of UH’s goals and objectives. Specifically, this Master Plan is intended to guide:

1. The planning, siting, and design of new facilities and improvements;\(^{10}\)
2. Alterations and other material changes to existing facilities that will cause a permanent change to the land; and
3. Decisions that UH may be involved in regarding which existing astronomy sites will remain operational.

It consolidates and clarifies UH’s use and development policies for the subject lands and is intended to guide UH’s decision-making related to them over a 20-year period.\(^ {11}\)

As stressed throughout this document, this Master Plan is intended to work in concert with, not to replace or override the CMP. The CMP will remain the guiding document with respect to management of the cultural landscape and natural resources on Maunakea while this Master Plan speaks to the specific nature of the land uses that UH anticipates will be discontinued, continued, or established. The provisions of this plan:

- Are consistent with commitments UH has made regarding facility siting, decommissioning, and other matters, and comply with the provisions of existing permits, leases, and subleases that the DLNR and UH have granted.
- Provide clear guidelines for those proposing new or modified uses and facilities within the UH Maunakea Lands.
- Support UH’s efforts to protect and conserve natural and cultural resources and processes, which are a function of its implementation of the CMP.
- Promote public health, safety, and welfare.
- Are consistent with applicable components of the CMP.

---

\(^{10}\) Proposed uses within UH Maunakea Lands that disturb the land, such as installing, recycling, modifying, or decommissioning facilities, structures, infrastructure (e.g., roads and utilities), and other improvements fall under the definition of “land use” under Hawai‘i Administrative Rules (HAR) § 13-5-2, Conservation District.

\(^{11}\) UH presently holds a General Lease from BLNR under which it grants rights to non-profit entities to construct, operate, and maintain astronomy facilities within the MKSR, in exchange for, among other things, access to world class facilities and research coordination. The General Lease expires at the end of 2033, before the Master Plan’s 20-year planning horizon. This Master Plan is essential to the University’s management efforts at least until 2033. After 2033, if the University is not granted a land authorization that includes the MKSR, whatever entity takes the University’s place might adopt some, all, or none of this Master Plan in its planning efforts.
You aren't listening to the Native Hawaiian people if you are already planning on building new facilities. Kanaka Maoli have an internationally recognized right to self-determination. According to the United Nations Declaration on the Rights of Indigenous Peoples, you need free prior and informed consent to develop our lands. More constructions will continue to cause irreparable harm to OUR Mauna. This is our sacred temple. Do we not matter? Our religion and culture doesn't matter? These lands are to be held in trust by the state for the betterment of the conditions of Native Hawaiians. This is pretty egregious that after everything that happened in 2019, after stopping the bombing of Kaho'olawe, after the illegal overthrow of our Queen, forced assimilation through your schools that physically punished our people from speaking our own language, now you are destroying our most sacred land. UH has not kept any of the original conditions for this lease. Why should you continue past 2033? Your lease is coming up and if you listen to the Native Hawaiian people, there will be no new construction on Mauna Kea, you will leave Mauna Kea and decommission all telescopes that are on Mauna Kea.
UH will evaluate all new proposals for facilities and uses for their consistency with this Master Plan. The programs and projects identified and discussed in this Master Plan are concepts that UH is considering but has not approved, adopted, or funded. The approval of this Master Plan by the BOR does not constitute the approval or permitting of any programs or projects discussed herein. Any future programs or projects are also subject to additional applicable government approval(s) and environmental review(s).

Proposed facilities and developments within UH Maunakea Lands must meet the following criteria:

- Compliance with applicable University policies, as amended, related to real property held by UH, such as RP 10.201.
- Consistency with the mission, vision, goals, and objectives of this Master Plan (Part 1, Chapter 1).
- Consistency with the CMP and promotion of resource conservation and sustainability.
- Extent to which the proposal will:
  - Benefit from the conditions present within the UH Maunakea Lands,
  - Not significantly harm Maunakea’s resources, and, if applicable,
  - Employ world-class technology, research techniques, and design.
- Consistency with:
  - The requirements of the HRS Chapter 183C, and HAR Chapter 13-5, regarding land uses within the State Conservation District;
  - The terms and conditions of CDUPs that have been issued that are relevant to the proposal; and
  - The Design Guidelines set forth in Part 3, Chapter 7, or, where inconsistent, provide adequate justification for any variance from those guidelines that is being sought.

- Extent to which any reasonably foreseeable negative impacts to existing astronomy facilities can be avoided, minimized, or mitigated.

2.2 LAND AREA OVER WHICH THIS MASTER PLAN APPLIES

This Master Plan covers “Mauna Kea lands,” which are subsequently referred to as “UH Maunakea Lands.” As defined under Hawai‘i Revised Statutes (HRS) § 304A-1901, the term “UH Maunakea Lands” means:

… the lands that the University of Hawaii is leasing from the board of land and natural resources, including the Mauna Kea Science Reserve, Hale Pohaku, the connecting roadway corridor between Hale Pohaku and the Mauna Kea Science Reserve, and any other lands on Mauna Kea that the University of Hawaii leases or over which the University of Hawaii acquires control or jurisdiction.

The UH Maunakea Lands presently consist of two parcels that UH leases and the portion of a third parcel over which UH holds an easement (Figure 2-1):
#271

Posted by pahnelopi G mckenzie on 10/25/2021 at 11:50am [Comment ID: 296]

Agree: 0, Disagree: 0
How does leasing land give right to build and destroy?

#272

Posted by Anonymous on 10/23/2021 at 12:08am [Comment ID: 248]

Type: Correction
Agree: 0, Disagree: 0
Hāwaiʻi with an 'okina. If 'okinas and kahakōs can be added to other words to ensure they are spelled correctly, Hāwaiʻi surely can be spelled correctly as well.

#273

Posted by Anonymous1 on 10/26/2021 at 12:09pm [Comment ID: 472]

Type: Suggestion
Agree: 0, Disagree: 0
ADD: Approval of Native Hawaiian community through vote of majority.

Let the leaders of opposition to any project organize their democratic process.

#274

Posted by Anonymous on 10/23/2021 at 12:05am [Comment ID: 246]

Agree: 0, Disagree: 0
Rephrase this to not cause ANY harm to Mauna Kea. UH will be scrutinized closely for management and stewardship of the mauna. Just because an action does not significantly harm the land right away does not mean it still doesn't harm it in any way, and the damage may not be seen immediately, but it can grow over time.

#275

Posted by Anonymous on 10/23/2021 at 12:06am [Comment ID: 247]

Agree: 0, Disagree: 0
Similar to the last comment regarding "not significantly harm Maunakea". Even if you may not see the damage does not mean it will not happen.
• Parcel TMK 4-4-015:009 via General Lease S-4191, which expires December 31, 2033. This parcel is 11,287.854-acre and is called the Mauna Kea Science Reserve (MKSR).

• Parcel TMK 4-4-015:012 via General Lease S-5529, which expires in 2041. This 19.261-acre parcel is known as Halepōhaku.

• Portion of parcel TMK 4-4-015:012 under a non-exclusive roadway easement. This easement, which encompasses 70.798 acres, contains the roadway between the two leased parcels.

Over the life of this Master Plan the specific area that falls within UH Maunakea Lands may change. This Master Plan is only binding on those UH Maunakea Lands that remain under the authority of UH. For example, if UH Maunakea Lands were reduced, this Master Plan would govern only those lands still authorized for use by UH, without the need to amend this Master Plan.

2.3 MASTER PLAN IMPLEMENTATION

This Master Plan will be implemented through the governance structure approved by the BOR, which may be modified over the anticipated 20-year life of this Master Plan. The BOR delegated responsibility for the governance and management of UH Maunakea Lands to UH Hilo, which is advised by the Mauna Kea Management Board (MKMB) and Kahu Kū Mauna Council (KKM).12 UH Hilo has, in turn, created the Center for Maunakea Stewardship (CMS) to administer the lands. This governance structure is established through policies adopted by the BOR and is outside the scope of this Master Plan.

UH’s general lease for the Mauna Kea Science Reserve expires in 2033, UH is seeking a new land authorization, but there is no guarantee it will be renewed. If UH does not obtain a land authorization that allows for its continued management and use of the UH Maunakea Lands, whatever entity assumes control may adopt a different plan with different priorities and goals. However, unless and until such a change occurs, the provisions of this Master Plan will guide land use decisions on Maunakea.

12 Under the 2000 Master Plan, MKMB was "encouraged to establish special committees on culture, environment and education, as needed, to assist it in its functioning." A long active, and currently active, special committee is the Environment Committee, which provides expertise to MKMB on environmental issues.
#276

Posted by Veronica Ohara on 09/13/2021 at 1:18pm [Comment ID: 44]
Agree: 0, Disagree: 0

I support this "Master Plan" and hope the UH's general lease for the Mauna Kea Science Reserve will be renewed, granted, allowed to continue. I am especially pleased to see a greater commitment to the Hawaiian culture and the education of the students. The UH will play a better role in management of the land and work more closely with the observatories, who must understandably follow the constraints of their universities and countries. I am very appreciative of their outreach, I know it's hard and uncomfortable for many people but their efforts are not unnoticed. Please find a way to ensure astronomy in Hawaii will continue for many years to come.

#277

Posted by Anonymous on 10/23/2021 at 12:09am [Comment ID: 249]
Agree: 0, Disagree: 0

The management should be governed and overseen by Kanaka Maoli as the original stewards of the land.

#278

Posted by James O Juvik on 10/06/2021 at 11:51am [Comment ID: 111]
Type: Suggestion
Agree: 0, Disagree: 0

The management plan should seek to remove alien plants/animals from the road corridor (70 acre) between Halepohoku and the summit region lease area, and further restore roadside native plant communities in the distinctive ecological zones (altitudinal) between 9,500-13,000ft. This should be undertaken in concert with adjacent land management by the DLNR and include alien ungulate, feral cat, mongoose and rodent removal, as well as alien invertebrate control. Since this roadside area is where almost all summit visitors (students, cultural practitioners, local recreational users and tourists), can experience the vertical ecozones on the mountain - such efforts can provide a valuable educational experience, in contrast to the last two centuries of widespread human disturbance on the mountain.

#279

Posted by Anonymous on 10/23/2021 at 12:13am [Comment ID: 250]
Agree: 0, Disagree: 0

Exactly what is said very early in this document is the exact same statement and sentiment as those who say, "If Hawai'i was not annexed by the U.S., another country would have." Through this sentence in the document, UH is stating that they are the best entity to control and manage Mauna Kea. Since this is the case, UH must ensure and adopt the best practices to managing and protecting the mauna, which includes full participation and consultation from Kanaka Maoli.
Figure 2-1: UH Maunakea Lands

Source: Planning Solutions, Inc. (PSI)
2.4 RELATIONSHIP BETWEEN THIS PLAN AND OTHER PLANS

The only active plans relevant to UH decision-making regarding its Maunakea Lands are: (i) this Master Plan, which is approved and adopted by UH; and (ii) the CMP, which is approved and adopted by the BLNR and the BOR. This Master Plan supersedes all previous Master Plans.

This Master Plan does not replace the CMP, which may be amended from time to time. On the contrary, it and the CMP are consistent with and complement one another and are intended to be implemented together. All the uses and facilities that are envisioned in this Master Plan can be designed and implemented so that they are fully consistent with the management actions described in the CMP.

This Master Plan addresses the planning, siting, and design of new facilities and significant material changes to existing facilities. The CMP addresses management of activities and resources. Examples of the differences between the elements addressed in the two plans are shown in Table 2-1. Specific information concerning recreational, commercial, and astronomy activities are presented in subsections 2.4.1 through 2.4.3.

Table 2-1: Examples of Distinction between Master Plan and CMP Content

<table>
<thead>
<tr>
<th>Master Plan</th>
<th>CMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>• New uses/facilities within the UH Maunakea Lands</td>
<td>• Management actions</td>
</tr>
<tr>
<td>• Exterior modification of astronomy facilities</td>
<td>• Natural resource management</td>
</tr>
<tr>
<td>• Recycling of astronomy sites</td>
<td>• Cultural resource management</td>
</tr>
<tr>
<td>• Roadway improvement/modification</td>
<td>• Recreational activity management</td>
</tr>
<tr>
<td>• Facility design standards</td>
<td>• Access management procedures</td>
</tr>
<tr>
<td>• Project review process</td>
<td>• Commercial tour management</td>
</tr>
<tr>
<td></td>
<td>• Decommissioning and site restoration process</td>
</tr>
</tbody>
</table>

2.4.1 RECREATIONAL ACTIVITIES IN THE PLANS

Management of recreational activities is addressed in the CMP and in Hawai‘i Administrative Rules (HAR) Chapter 20-26, Public and Commercial Activities on Mauna Kea Lands (the UH Maunakea Rules or HAR Chapter 20-26). This includes activities such as hunting, hiking, and snow play. If UH or another party seeks to develop new facilities that support recreational activities, such as a new trail or parking lot, then the provisions of this Master Plan would apply to the proposed land use in addition to all other applicable regulations.

2.4.2 COMMERCIAL ACTIVITIES IN THE PLANS

Management of commercial activities is addressed in the CMP and HAR Chapter 20-26. This includes visits to the UH Management Area by permitted tour companies and film production activities. These activities utilize existing facilities (e.g., roads and parking areas) and do not generally result in the development of new facilities or related land uses. If UH or another party seek to develop new facilities that support commercial activities, such as parking spots for star gazing, then the provisions of this Master Plan would apply to the proposed land use in addition to all other applicable regulations.
what does this mean to be amended from time to time? and who had the right to be involved in this time to time amendments?

Will UH create policies regarding how these companies and productions will use the land? If UH is committing themselves to being stewards of the land, then they must also hold these companies accountable to abide by these rules or else they should not be permitted to use or even visit these lands at all.

If UH or another seeks to develop this, they will be met with the same opposition. Kanaka Maoli must be consulted on these matters first and foremost. This statement directly conflicts with the entire section stated at the very beginning of this document regarding the ongoing debate surrounding Mauna Kea. If this "debate" has only been surrounding the Thirty Meter Telescope, envision the "debate" and opposition that will erupt through additional development of the mauna past this project.
2.4.3 ASTRONOMY FACILITY DECOMMISSIONING AND SITE RESTORATION IN THE PLANS

As detailed elsewhere in this Master Plan, by the end of the term of the current general lease (December 31, 2033), UH is committed to limiting the total number of operating astronomy facilities to nine (9) in the MKSR. This Master Plan addresses how astronomy facilities that will continue beyond the end of 2033 will be identified (Section 4.3.2.2 and Appendix D); those facilities that will not continue beyond the end of 2033 will need to be decommissioned before the end of 2033. The CMP provides for the site decommissioning and restoration process to be followed once an astronomical facility decides to cease operation. Specific steps related to decommissioning a facility and the restoration of the astronomy site on which it was erected, if that is the path selected, are outlined in the CMP.

2.5 CAPITAL IMPROVEMENT APPROVALS AND FUNDING

The Master Plan provides a framework within which to consider the concepts discussed and also future proposals that could achieve the same goals and objectives of the Master Plan. The implementation of the capital improvements (the facilities) envisioned in this Master Plan will require additional planning and then investments. This Master Plan does not make any final decisions on any facilities or land uses. The programs and projects identified and discussed in this Master Plan are concepts that UH is considering and/or may be proposing but which it has not approved, adopted, or funded. The approval of this Master Plan by the BOR does not constitute the approval or permitting of any programs or projects discussed herein. There are many ways to contribute to achieving this plan’s goals; the facilities and projects mentioned in this plan are but one concept of how UH and other entities, e.g., astronomical research organizations, may proceed. All facilities and land uses suggested herein, or that may be considered in the future, may need additional applicable government approval(s) and environmental review(s).

Investments in and funding for facilities on Maunakea typically come for a variety of partners. Similarly, operating and management resources are derived from a wide variety of sources. It is the astronomy facilities that provide significant resources, not just to operate and maintain their facilities, but to implement the CMP and operate and maintain shared infrastructure, such as the Mauna Kea Access Road and the Visitor Information Station. Many of the astronomy facilities on Maunakea are multinational partnerships and any new astronomy facilities (e.g., modification and recycling projects) are likely to be multinational partnerships.

UH will continue to seek innovative methods to fund non-astronomy capital improvements and the operation and maintenance on Maunakea public areas. The astronomy facilities and UH will provide certain resources while other potential resources include (i) commercial tour and film fees, (ii) entrance fees for non-Hawai‘i residents, (iii) federal, state, or private grants, (iv) federal and/or state expenditures, and (v) other opportunities.
Positive changes for the future and encompasses the needs of everyone

"commercial tour and film fees" seem directly at odds with stewardship goal on Pg. 1-4 in Section 1.4.1, particularly protecting Maunakea as a wahi pana and wao akua, and ensuring that public activities are conducted in a manner that respects Native Hawaiian practices.

Caught between the abusive mismanagement of the past and having a hopeful change of the future. Build trust with the Native Hawaiian. The emotional and mental damage that University of Hawai'i and DNLR has done, still hurts. NO TMT!!! All Hawaiians should have access to Mauna Kea at all times, especially native practitioners. No more telescopes to be built. Current telescopes is an eyesore, like a manmade cyst on an infant's pure skin. Use and care of the telescopes that are currently working. Malama them first. Keep your words of decommissioning. Educate visitors, the truth of care and overthrow, and have them pay a fee. All funds should support non profits, Hawaiian charters schools, Hawaiian communities, assist in kick starting grassroots organizations. I havent had much time into reading/keeping up with the latest. I'll look into this a bit more when time allows. Mahalo for your time.

Commerical tours and films seem to directly contradict other sections that include stewardship goals (Pg. 1-4, Section 1.4.1).

In your stewardship goal section, you mentioned that you wish to respect Native Hawaiian practices and build relationships between the mauna and its special
caretakers. You also mention that you hope to further a knowledge based economy within Hawaii, instead of the current exploitative relationship with the tourism industry. However, now you mention that there will be entrance fees for non-Hawai‘i residents, and fees from commercial tour and film fees. You still wish to capitalize off of the Mauna and work within the tourism industry to profit and maintain your so-called stewardship of the Mauna.

#288

Posted by Jonah Bobilin on 10/21/2021 at 2:01pm [Comment ID: 212]

Type: Suggestion

Agree: 0, Disagree: 0

Item (i) and (ii) should be carefully examined if they are to be implemented moving forward. Commercial tour fees could be used as justification to increase activity involving the tourist industry on Mauna Kea, however this document has specifically described UH activity on the mountain as a means to diversify the local economy, invest in science/technology, and move away from a dependence on tourism.

Film fees could be used as justification to increase activity involving commercial film production which tends to negatively impact the environment and does not seem in particular alignment with the "Objectives Under this Stewardship Goal" listed in Section 1.4.1.

Item (ii) raises the possibility of entrance fees for non-Hawai‘i residents. If implemented, an exemption should be made for indigenous Hawaiians in the diaspora who may not be residents of the State of Hawai‘i, but may still wish to visit the mountain for spiritual reasons.

#289

Posted by Lehuakona on 10/25/2021 at 9:09pm [Comment ID: 359]

Agree: 0, Disagree: 0

I do not think the plan should commit to the assumption that decommisioning will be the best choice for these sites in the future. The Fossil fuel consumption involved is a great cost to the environment and will only be worse in the future, as well as likely a great deal more costly. Better to reuse and enhance what is already built.

#290

Posted by Anonymous1 on 10/26/2021 at 12:41pm [Comment ID: 475]

Agree: 0, Disagree: 0

There are many good intentions in this masterplan, an attempt to respect and honor Mauna Kea as a cultural, historical, and spiritual place of reverence. I like the balance goal, and the idea of education programs outside of astronomy. These are good starts. I know that UH is not responsible for the injustices of the past, neither is UH responsible for the current and systemic genocide of Kanaka Maoli. It is a difficult thing to navigate.
However, UH has inherently been part of a corrupt system upon which our colonial society was built, and has the opportunity to reinvent itself in a way that aligns with justice, equity, and the balance of power. After reading this masterplan, I think there is a desire for such reinvention.

I suggest that the Astronomy Goal to be "the best" or "cutting-edge" be de-prioritized in favor of being in harmony with Kanaka Maoli --not just with some, but with the majority. Our Western ideas of competition and monetary gain has led human kind to the brink of extinction. We must realize that Indigenous people are carrying ancient wisdom that can bring us back into balance in ways that all our Western education has failed. It's not enough to have good intentions. We must give Indigenous people everywhere the power to steward their own lands, and for UH it means giving Kanaka Maoli the power to disapprove of any project for any reason.

Nothing is more important than building the foundations of society upon justice, harmony, and peaceful co-existence. As the corrupt foundations of past continue to crack and crumble, I pray that we become like the wise man who built his house on the rock, not the shifting sands.

I have faith in UH and E O I Ka Leo to do the right thing for the people of Hawaii.
Aloha no

#291

Posted by **jmakyoku** on **10/26/2021** at **7:35pm** [Comment ID: 506]

Type: Correction

Agree: 0, Disagree: 0

No. You will not denigrate Maunakea for people to sightsee and commercialize. The Stewardship Goal objectives include minimizing the adverse effects of human activities, and yet you want to increase the flows of people through the environment

#292

Posted by **Kyle H Ngiratregd** on **10/23/2021** at **12:19pm** [Comment ID: 256]

Type: Suggestion

Agree: 0, Disagree: 0

Maunakea is sacred to my people and they do not consent to TMT. Please stop all construction, plans to construct TMT on Maunakea. I do not consent for TMT to be built on Maunakea. Mahalo.

#293

Posted by **pi314** on **10/25/2021** at **6:00am** [Comment ID: 281]

Agree: 0, Disagree: 0

The number of sites should NOT be limited to 9. It should be increased. Maunakea is the single best site on the planet for astronomy. Limiting the number of sites to 9 is limiting the potential for scientific discovery for all mankind. That should weight heavily on everyone. 13 was a reasonable number with demonstrated limited impact.

#294
Posted by HiloResident on 10/06/2021 at 12:16pm [Comment ID: 119]
Type: Suggestion
Agree: 0, Disagree: 0
UH should not be in the business of arbitrarily limiting the number of facilities.

#295

Posted by Anonymous1 on 10/26/2021 at 12:41pm [Comment ID: 474]
Agree: 0, Disagree: 0
There are many good intentions in this masterplan, an attempt to respect and honor Mauna Kea as a cultural, historical, and spiritual place of reverence. I like the balance goal, and the idea of education programs outside of astronomy. These are good starts. I know that UH is not responsible for the injustices of the past, neither is UH responsible for the current and systemic genocide of Kanaka Maoli. It is a difficult thing to navigate. However, UH has inherently been part of a corrupt system upon which our colonial society was built, and has the opportunity to reinvent itself in a way that aligns with justice, equity, and the balance of power. After reading this masterplan, I think there is a desire for such reinvention. I suggest that the Astronomy Goal to be "the best" or "cutting-edge" be de-prioritized in favor of being in harmony with Kanaka Maoli --not just with some, but with the majority. Our Western ideas of competition and monetary gain has led human kind to the brink of extinction. We must realize that Indigenous people are carrying ancient wisdom that can bring us back into balance in ways that all our Western education has failed. It's not enough to have good intentions. We must give Indigenous people everywhere the power to steward their own lands, and for UH it means giving Kanaka Maoli the power to disapprove of any project for any reason. Nothing is more important than building the foundations of society upon justice, harmony, and peaceful co-existence. As the corrupt foundations of past continue to crack and crumble, I pray that we become like the wise man who built his house on the rock, not the shifting sands. I have faith in UH and E O I Ka Leo to do the right thing for the people of Hawaii. Aloha no

#296

Posted by Olivia Nohealani Guarna on 10/26/2021 at 3:08pm [Comment ID: 483]
Type: Suggestion
Agree: 0, Disagree: 0
This is a good suggestion so long as it also exempts Native Hawaiians who are not residents (i.e. nobody from the Native Hawaiian diaspora will pay fees to enter).

#297

Posted by Anonymous on 10/23/2021 at 12:28am [Comment ID: 253]
Agree: 0, Disagree: 0
UH should view and approach these documents as if applying for a grant, with more
specific details and transparency for those reviewing it. Though detailed as it is so far, it is still broad that it does not specify entities, organizations, communities, or processes to certain things that must be fleshed out before this can be approved or even considered.
The name of this plan, E Ō I Ka Leo, and its translation was provided by noted Native Hawaiian scholar Larry Kimura, Associate Professor at UH Hilo. The authors express their deep gratitude for this gift.

Prepared for:
University of Hawai‘i

Prepared by:
Planning Solutions, Inc.
Ho‘okuleana, LLC

September 2021
#001

Posted by Anonymous on 10/20/2021 at 4:29am [Comment ID: 202]

Type: Correction
Agree: 0, Disagree: 0
STOP DESTROYING NATIVE SACRED LAND FOR YOUR CAPITALIST EXPLOITATION

#002

Posted by Elizabeth Jennys on 10/13/2021 at 2:49am [Comment ID: 166]

Type: Suggestion
Agree: 0, Disagree: 0
Mains Kea is a sacred site and should not be built on. Native Hawaiians have been saying so for years. They oppose this structure, and their voices and rights should be respected.

#003

Posted by Ivy Iaea-McIntosh on 10/26/2021 at 2:34pm [Comment ID: 481]

Agree: 0, Disagree: 0
Aloha Everyone,

ʻO wau ᵁ Ivy Iaea-McIntosh I am kanaka ʻōiwi and I was born and raised on Kauaʻi. I am an Early Childhood Educator and committed to the overall health/wellbeing of kānaka ʻōiwi.

Here is my statement.

First of all, I would like to say that this should not be considered consultation. I am not here to “consult” with the institution of the colonizer on how to desecrate our sacred Mountain.

Second, I would like to inform you that I am recording this.

Thirdly I would like to read the statement to you that 235 other people submitted (as of today) in opposition to the proposed Draft UH Master Plan.

• For decades, kanaka maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawaiʻi and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

• There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.
• There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.

• Over half a million kanaka maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea.

• There were 31 Mauna Kea protectors arrested on April 2, 2015 and 38 respected elders arrested on July 17, 2019. They were arrested for standing in opposition to the building TMT and the desecration of Mauna Kea. There were many more arrests.

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• There were 31 Mauna Kea protectors arrested on April 2, 2015 and 38 respected elders arrested on July 17, 2019. They were arrested for standing in opposition to the building TMT and the desecration of Mauna Kea. There were many more arrests.

• On September 12, 2021, the UH released its draft Master Plan for Mauna Kea to the public. YET despite decades of Hawai'i’s native people saying NO to any further development and 12 years of strong community opposition to the building of TMT atop Mauna Kea the UH (a publicly supported institution of higher learning) continues to make the building of TMT and development a priority.

• The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands.

• Furthermore, the UH has no jurisdiction to block access to the Mauna Kea summits and should not be allowed to extend their lease beyond the current lease expiration of 2033. No means no!

• Lastly, the Kanaka Maoli people and the wider community are being asked to comment on multiple plans related to lease extensions on Mauna Kea within a very short period of time. The US military was recently asking for comments on the Pōhakuloa Training Area EIS and the UH is asking for comments on the Hōkū Kea Telescope and the Caltech Submillimeter Observatory decommissioning while simultaneously asking for comments on their Mauna Kea Master Plan all under the cover of Covid-19 restrictions. Shame on the UH!
An additional point I want to bring up is the lack of access to hard copies of the Master Plan and the Appendixes. This was brought to my attention by a Kūpuna on Moku o Keawe (Hawai‘i Island) and is an issue for other Kūpuna who do not have access to the online system.

#004

Posted by Donna R. Goodale on 10/03/2021 at 4:11pm [Comment ID: 84]
Type: Suggestion
Agree: 0, Disagree: 0

I am in favor of the plan as delineated here.
Part 2: Physical Plan
Respect the land! TMT will not be built on Mauna Kea EVER.
PART 2: PHYSICAL PLAN

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Which voice is UH really listening to? Their investors and their own. UH already knows what the true voice, the voice of the kānaka ʻōiwi, have to say and that is NO to TMT. Making it like you are playing "nice" with the people of this ʻāina is ridiculous and disrespectful.
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<th>Meaning</th>
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<tbody>
<tr>
<td>AURA</td>
<td>Association of Universities for Research in Astronomy</td>
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<tr>
<td>BLNR</td>
<td>Board of Land and Natural Resources</td>
</tr>
<tr>
<td>BOR</td>
<td>UH Board of Regents</td>
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<tr>
<td>CDUA</td>
<td>Conservation District Use Application</td>
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<tr>
<td>CDUP</td>
<td>Conservation District Use Permit</td>
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<tr>
<td>CFHT</td>
<td>Canada-France-Hawaii Telescope</td>
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<tr>
<td>CIP</td>
<td>Capital Improvement Project</td>
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</tbody>
</table>
| CMP      | Comprehensive Management Plan
| CMS      | Center for Maunakea Stewardship |
| CRMP     | Cultural Resources Management Plan |
| CSO      | Caltech Submillimeter Observatory |
| CMS      | Center for Maunakea Stewardship |
| DESI     | Dark Energy Spectroscopic Instrument |
| DHHL     | Department of Hawaiian Home Lands |
| DLNR     | Department of Land and Natural Resources |
| DOFAW    | Division of Forestry and Wildlife (DLNR) |
| EA       | Environmental Assessment |
| EDD      | Environmental Due Diligence |
| EIS      | Environmental Impact Statement |
| EISPN    | EIS Preparation Notice |
| ESA      | Environmental Site Assessment |
| General Lease | General Lease S-4191 from BLNR to UH, which expires December 31, 2033 |
| GRACES   | Gemini Remote Access to CFHT ESPaDOnS Spectrograph |
| GRP      | Grouted rubble pavement |
| HAR      | Hawai‘i Administrative Rules |
| HDOT     | Hawai‘i Department of Transportation |
| HECO     | Hawaiian Electric Company |
| HRS      | Hawai‘i Revised Statutes |
| HVAC     | Heating, ventilation, and air conditioning |
| IfA      | Institute for Astronomy |
| ‘Imiloa  | ‘Imiloa Astronomy Center of Hawai‘i |
| IR       | Infrared |
| IRTF     | NASA Infrared Telescope Facility |
| JCMT     | James Clerk Maxwell Telescope |

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<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>KKM</td>
<td>Kahu Kū Mauna</td>
</tr>
<tr>
<td>MKMB</td>
<td>Mauna Kea Management Board</td>
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<tr>
<td>MKO</td>
<td>Maunakea Observatories</td>
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<tr>
<td>MKSR</td>
<td>Mauna Kea Science Reserve</td>
</tr>
<tr>
<td>MKSS</td>
<td>Maunakea Observatories Support Services</td>
</tr>
<tr>
<td>MOA</td>
<td>Memorandum of Agreement</td>
</tr>
<tr>
<td>MSE</td>
<td>Maunakea Spectroscopic Explorer</td>
</tr>
<tr>
<td>MUTCD</td>
<td>Manual on Uniform Traffic Control Devices</td>
</tr>
<tr>
<td>NAR</td>
<td>Natural Area Reserve (DLNR)</td>
</tr>
<tr>
<td>NOI</td>
<td>Notice of Intent</td>
</tr>
<tr>
<td>NPDES</td>
<td>National Pollutant Discharge Elimination System</td>
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<tr>
<td>NRMP</td>
<td>Natural Resources Management Plan (a sub-plan of the CMP)</td>
</tr>
<tr>
<td>OCCL</td>
<td>Office of Conservation and Coastal Lands (DLNR)</td>
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<tr>
<td>OHANA</td>
<td>Optical Hawaiian Array for Nanoradian Astronomy</td>
</tr>
<tr>
<td>OMKM</td>
<td>Office of Maunakea Management</td>
</tr>
<tr>
<td>PV</td>
<td>Photovoltaic</td>
</tr>
<tr>
<td>SDP</td>
<td>Site Decommissioning Plan (a sub-plan of the CMP)</td>
</tr>
<tr>
<td>SHPD</td>
<td>State Historic Preservation Division (DLNR)</td>
</tr>
<tr>
<td>SMA</td>
<td>Submillimeter Array</td>
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<tr>
<td>TMK</td>
<td>Tax Map Key</td>
</tr>
<tr>
<td>TMT</td>
<td>Thirty Meter Telescope</td>
</tr>
<tr>
<td>UC</td>
<td>University of California</td>
</tr>
<tr>
<td>UH</td>
<td>University of Hawaiʻi</td>
</tr>
<tr>
<td>UH Hilo</td>
<td>University of Hawaiʻi at Hilo</td>
</tr>
<tr>
<td>UKIRT</td>
<td>United Kingdom Infrared Telescope</td>
</tr>
<tr>
<td>VIS</td>
<td>Visitor Information Station</td>
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<tr>
<td>VLBA</td>
<td>Very Long Baseline Array</td>
</tr>
<tr>
<td>VPA</td>
<td>Vice President for Administration</td>
</tr>
</tbody>
</table>
INTRODUCTION

This part of the Master Plan, Part 2, discusses the facilities and land uses that UH believes may occur within the UH Maunakea Lands over the period of this Master Plan. Part 1 of the Master Plan provides important context for understanding the scope of facilities and land uses discussed in Part 2. Part 3 of the Master Plan presents the review process and design guidelines that facility and land use proposals will need to navigate.

Any project proposed within the UH Maunakea Lands that meets the definition of “land use” under the DLNR’s Conservation District Rules (HAR Chapter 13-5) will need to obtain certain approvals (from UH, DLNR, and perhaps others); proposals that are not a land use may also require approvals (from UH and perhaps others), but are not the subject of this Master Plan. In general, cultural practices and recreational activities do not involve land uses and are therefore not subject to this Master Plan. The proposals that are “land uses” and that UH believes may be advanced over the period of this Master Plan are discussed in Part 2 of this Master Plan. Only facilities and developments that UH believes are consistent with its mission, vision, goals, and objectives outlined in Part 1 are included. To that end, conservation-related actions, facilities to support public access and activities, astronomy facilities, and equipment to collect data and conduct research are the principal land uses presented in this Master Plan for the UH Maunakea Lands. The inclusion of a facility or land use in this Master Plan does not mean that it will be officially proposed during the period of this Master Plan. This Master Plan also includes a framework for UH to consider proposals not identified in this Mater Plan (see Part 3).

Proposals considered land uses will first need to be reviewed and approved by UH (see Part 3 of this Master Plan). In addition, common requirements for such proposals include satisfying environmental disclosure requirements (e.g., HRS Chapter 343), obtaining regulatory approvals (e.g., HRS Chapter 6E), and acquiring a Conservation District Use permit or approval.

Proposed facilities and developments within UH Maunakea Lands must meet the following criteria:

- Compliance with applicable University policies, as amended, related to real property held by UH, such as RP 10.201.
- Consistency with the mission, vision, goals, and objectives of this Master Plan (Part 1, Chapter 1).
- Consistency with the CMP and promotion of resource conservation and sustainability.

---

13 The Conservation District Rules apply because UH Maunakea Lands are within the State of Hawai‘i Conservation District, Resource subzone.

14 Activities within the UH Maunakea Lands are governed by HAR Chapter 20-26 entitled “Public and Commercial Activities on Mauna Kea Lands” and may be subject to other regulatory requirements. All facilities, land uses, and activities also need to consider the CMP, which is about the management of the UH Maunakea lands.

15 As defined in the current Conservation District Rules, these types of facilities and developments would fall into the following land use categories: Land and Resource Management, Astronomy, Public Purpose, Data Collection, and Signs.
It should be added that the community should be consulted with any new projects or plans. UH should not be the sole decider in what gets built on Mauna Kea.
• Extent to which the proposal will:
  - Benefit from the conditions present within the UH Maunakea Lands,
  - Not significantly harm Maunakea’s resources, and, if applicable,
  - Employ world-class technology, research techniques, and design.

• Consistency with:
  - The requirements of the HRS Chapter 183C, and HAR Chapter 13-5, regarding land
    uses within the State Conservation District;
  - The terms and conditions of CDUPs that have been issued that are relevant to the
    proposal; and
  - The Design Guidelines set forth in Part 3, Chapter 7, or, where inconsistent, provide
    adequate justification for any variance from those guidelines that is being sought.

• Extent to which any reasonably foreseeable negative impacts to existing astronomy facilities
  can be avoided, minimized, or mitigated.

An overarching requirement for any proposal is consultation and outreach with impacted
communities and interested persons, including native Hawaiian practitioners, the Hawai’i Island
community, and existing users.

The following Part 2 chapters discuss the facilities and developments that UH believes may occur
on UH Maunakea Lands over the period of this Master Plan by area and topic.

The facilities and land uses identified and discussed in this Master Plan are possible future
programs and projects that UH is considering but has not approved, adopted, or funded. The
approval of this Master Plan by the UH Board of Regents (BOR) does not constitute the approval
or permitting of any land use discussed herein.
Suggest making the language in these 3 bullet points clearer. See the following suggested new language, which is what I think you are trying to say:

"In addition, UH will:

(1) Evaluate where appropriate the extent to which the proposed facility and/or development will benefit from the conditions present within the UH Maunakea Lands and, if applicable, employ world class technology, research techniques and design;

(2) Confirm the proposal will not significantly harm Maunakea’s resources; and

(3) Determine whether any reasonably foreseeable negative impacts to existing astronomy facilities can be avoided, minimized, or mitigated."

#009

"Not significantly harm Maunakea’s resources" is not nearly good enough. This sacred site should not be harmed at all.

#010

Still just such a side note here. This should be at the utmost priority.
3 HALEPŌHAKU

This chapter addresses Halepōhaku (TMK No. (3) 4-4-015:012), which is officially named the Onizuka Center for International Astronomy but is now more commonly known as Halepōhaku. This 19.261-acre parcel, which ranges in elevation from ~9,100 to ~9,300 feet above sea level on the southern flank of Maunakea, is home to the facilities that UH uses to manage and support activities in Maunakea’s high elevation areas. Figure 3-1 illustrates the facilities that are presently located there.

The facilities at Halepōhaku are essential to UH’s ongoing astronomy program and management. Those facilities contribute significantly to the achievement of UH goals and objectives. Specifically, Halepōhaku facilities will continue to house support services, be the basepoint for stewardship activities, provide office space for entities with activities on the mountain, and provide short-term lodging for individuals whose work calls for them to be spend more than short periods in the summit area. UH intends to re-purpose and reassign existing underutilized facilities to support expanded education and research focused on Maunakea resources beyond astronomy. The range of education, research, and cultural activities that could benefit from the resources and conditions at Halepōhaku is broad.

3.1 PLANNING CONTEXT

3.1.1 BACKGROUND

The UH-developed facilities at Halepōhaku were originally designed to serve three purposes: (i) as a mid-elevation support center for astronomy activities situated in the MKSR; (ii) as a central point for management of astronomy facilities and support services on Maunakea; and (iii) as a day-use destination point for visitors where they could learn about astronomy, natural resources, and the cultural landscape. These facilities were designed and constructed to accommodate the amount and type of activity that could be foreseen in the closing decades of the 20th century, and they have served their purpose well. However, technological changes in the way astronomical observations are made, the evolution of visitation on the mountain, and the greatly increased interest in learning about and sustainably managing Maunakea’s cultural landscape and natural resources mean that adjustments are needed.

While some of the Halepōhaku facilities, principally those at the MKSS baseyard, continue to be appropriately sized and configured for current and anticipated needs, others are not. Some, primarily the Visitor Information Station (VIS), are too small to meet recent demand if the visitation continues as it has in the past, i.e., with large numbers of visitors arriving in small groups in private vehicles. In addition, the size of the dormitories and common area exceed what is needed to support astronomy and management in the foreseeable future. Finally, the existing spaces are not configured to accommodate the diversified educational activities that are envisioned. Additional detail regarding this follows below.
Instead of increasing facility capacity, there should be a focus on spreading out and limiting tourism visitation. Visitation should not be encouraged in this way, it should be managed with a stronger hand. You’re opening the doors wide open. Limit the number of people who can come up on the Mauna each day, space out reservations over the course of multiple days, etc. Your priority is clearly to spend money on expanding these tourist opportunities and to add in a few sustainability resources here and there. This is not listening to the voices who have been trying to protect Mauna Kea.

The specificity of the goals of UH and the vagueness of the additional priorities to protecting Mauna Kea is so clear here. Also, we are not asking for more facilities up there including cultural or educational facilities. We are asking for permanent decommissioning of all facilities.

If it’s a sustainability issue, then LESS people and facilities seems to be the only answer.
Figure 3-1: Halepōhaku Overview

Source: PSI

Existing Mauna Kea Access Road Easement

Mauna Kea Forest Reserve
TMK No. (3) 4-4-015;001

Halepōhaku (Onizuka Center for International Astronomy)
TMK No. (3) 4-4-015;012
(19.261 acres)

HECO Substation

Mid Level Support Facilities, Common Building and Dormitories

Stone Cabins

Construction Cabins

Source: PSI
VIS. The VIS building is woefully inadequate to support the number of visitors it has been called upon to serve in recent years. Beyond a continued fascination with high-elevation locations, it is believed that contributing factors include an increase in out-of-state travel to Hawaiʻi, an increase in the number and mobility of Hawaiʻi Island residents, easier access to Maunakea brought about by the completion of the Daniel K. Inouye Highway, the Kilauea eruption temporarily closing other visitor attractions, and social media. Whatever the cause, there is no evidence that the number of persons, both Hawaiʻi Island residents and off-island visitors wishing to experience the mountain, will decrease; if anything, the demand is likely to grow.

Mid-Level Support Facilities. In contrast to the VIS, the facilities that were developed in the 1980s to accommodate management and astronomy personnel are now over-sized relative to that demand. There are several reasons for this, but the two principal ones are the advent of remote viewing as a practical alternative to working at the summit and the ease of commuting to the astronomy facilities from either Hilo or Waimea via the Daniel K. Inouye Highway (Saddle Road). The trend toward greater remote viewing, the decommissioning of some facilities in the MKSR, and a likely continuing shift toward remote operation of telescopes will likely further decrease demand for lodging, meals, and office space by astronomy facility personnel. The exact level of such usage is difficult to predict, and it will be variable. Some personnel will always need to work at the astronomy facilities, and they will continue to use the Mid-Level Support Facilities as a place to rest, eat, work, and sometimes sleep. There will also continue to be short-term projects at the astronomy facilities, and the Mid-Level Support Facilities will need surge capacity to support those. However, based on current and past usage, UH’s expectation is that no more than a third of the space designed for these purposes will be required going forward.

Over the last several decades, the Mid-Level Support Facilities have increasingly been utilized by stewardship personnel. This includes the Rangers and other CMS personnel and their equipment and materials. Since the approval of the CMP, the level of management necessary to maintain safety and minimize impacts to the cultural landscape and natural resources has consistently increased. UH has learned many lessons regarding its stewardship obligations and is dedicated to continual improvement. As the use of these facilities by astronomy personnel decrease, their use by stewardship personnel will increase, but at a much slower rate.

Educational Facilities. At present, what public educational activity there is at Halepōhaku occurs at the VIS, and it is focused on day-trippers, many of whom reside off-island. The work that has been done on this Master Plan has revealed a need and desire to greatly expand the extent to which educational programs based on Maunakea’s cultural landscape and natural resources are made available to the public.

---

16 The Mid-Level Support Facilities are currently designated by CDUP 1430 (condition 25) for the exclusive use of astronomy facility staff and those whose work, research, or provide technical support is directly related to activities in the MKSR.
17 Remote operation is when the telescope operators work remotely. The telescope operators are the people that open and close the dome, manipulate the telescope and its instruments to collect the observational data requested by the astronomer. Astronomers have been using “remote viewing” for years; remote operation is being developed and is expected to become more prevalent over the period of this Master Plan.
18 Surge capacity would support, for example, temporary construction, maintenance, installation of new instruments, or repair projects. Personnel involved in long-term construction or decommissioning projects are not expected to regularly stay at Halepōhaku.
#014

Posted by Georjean Adams on 10/12/2021 at 5:25pm [Comment ID: 161]
Type: Suggestion
Agree: 0, Disagree: 0
Not clear what is planned for VIS. Will it be subject to proposal and review described in Part 3? It should be coordinated with public communications on restricted access to summit or somehow discourage overwhelming crowds.

#015

Posted by anonymous on 10/26/2021 at 11:14am [Comment ID: 453]
Agree: 0, Disagree: 0
You are contributing to the reliance on Hawai`i tourism. Know that.
3.1.2 Limitations on New Development at Halepōhaku

3.1.2.1 Critical Habitat

Halepōhaku is within the federally designated critical habitat for the endangered Palila (*Loxioides bailleui*) (Figure 3-2). Palila are only found on the island of Hawai‘i with over 95 percent of the population restricted to the southwest slopes of Maunakea. They occur only in the dry māmane and māmane-naio forest between 6,500- and 9,250-foot elevation. Māmane (*Sophora chrysophylla*) is endemic to the Hawaiian Islands and are present throughout Halepōhaku. Māmane are not listed as threatened or endangered but are a critical food source for the Palila. Palila have been observed at Halepōhaku occasionally but are not frequently present and Halepōhaku is not considered preferred nesting habitat for Palila due to the relative constant human activity.

Figure 3-2: Federally Designated Critical Habitat for Palila

Any development at Halepōhaku on previously undisturbed land that results in the removal of māmane trees could cause an adverse impact to Palila designated critical habitat, which could be a limiting factor in adding new facilities there. CMS has an ongoing program to propagate and outplant māmane trees within Halepōhaku and take additional actions to improve the habitat for Palila, but it is too early to evaluate how successful that program will be. The DLNR, which is
There are often so many trade-offs in which the ecology/biology lose. We justify the need for development incessantly. Consider island-wide conservation efforts in the name of UH and Mauna Kea. And wherever possible downsize the developed area returning it to native vegetation.

Limiting factor? There should not be any considerations at all. It is the only factor that matters. You say that taking care of the Mauna and its inhabitants is a priority and this language just shows that it's all about where to place new facilities and how it's inconvenient to consider the natural landscape and animals. This is also just such an honest report of how UH really feels while constantly saying things "we're doing everything we can to protect Mauna Kea." We understand your words are not true.

This comment here is exactly the issue. The Palila would nest at Halepōhaku except for the presence of human activity. This is admitting that the endangered species would have more space to live if it were not for the astronomy development up there.
leading Palila recovery efforts, has asked that new disturbances and developments at Halepōhaku be avoided.

### 3.1.2.2 Operational Cost Considerations

Because of its location, it is costly to operate facilities at Halepōhaku. All water and other supplies must be trucked up the mountain. Wastewater collection, treatment, and disposal are relatively expensive to provide. All food service must be accommodated by UH-provided facilities and personnel. Vehicular parking is limited and costly to expand. Given these factors, activities at Halepōhaku are limited to those which focus on the cultural landscape and natural resources present immediately in and around it.

### 3.1.3 UH COMMITMENTS REGARDING USE OF HALEPŌHAKU

In view of the limitations outlined above, UH will adhere to the following precepts in making decisions related to facilities, developments, and disturbances at Halepōhaku:

- Existing structures will be repurposed and utilization of existing space maximized before new facilities are proposed.
- Proposed developments will be sited in previously disturbed areas devoid of native vegetation to the maximum extent practicable.
- The only astronomy facility that will be proposed at Halepōhaku is the UH Hilo educational telescope (Section 3.3). The only other telescopes that will regularly be present at Halepōhaku will be small portable star-gazing telescopes that are set up and then removed and stored after use.
- UH will manage vehicular access in a way that forestalls the need to expand parking within Halepōhaku beyond the locations where it presently exists.
- UH will continue its habitat restoration efforts within Halepōhaku and utilize Halepōhaku to assist and/or support conservation efforts by others on the upper slopes of Maunakea.

### 3.2 MKSS BASEYARD

As illustrated in Figure 3-1, the uppermost part of Halepōhaku contains the MKSS baseyard, which contains structures, equipment, and storage areas utilized for logistical services and support. These are used to maintain the Mauna Kea Access Road above Halepōhaku and in support of operations of other Halepōhaku facilities. The MKSS baseyard provides sufficient space to accommodate MKSS’ current and forecast needs.

Because the size and location of the existing baseyard facilities are deemed by MKSS to be adequate for the foreseeable future, no fundamental changes to it are likely to be proposed during the life of this Master Plan. However, refurbishment, updating, and modest enhancements that would improve the function and/or extend the operating life of the existing facilities were identified during the master planning process and may be undertaken over the term of this Master Plan. Examples include:
How is the UH reaching out to the Hawaiian community to get involved?  
I don't see too many natives involved in work in the area?

parking across from the visitor center was blocked off- why not reopen that.  That would 
allow parking at minimal cost

So, your solution is to create a new telescope. Please provide more information on why 
this is necessary to build anything remotely near this area.
• Upgrading fuel storage by July 15, 2028, to comply with new regulations requiring double-walled tanks.

• Paving portions of the baseyard that now have only a gravel base-course cover to improve efficiency and safety.

• Improving portions of the baseyard area, currently in limited use, for the storage of material and equipment associated with resource maintenance and management on Maunakea and making minor improvements (e.g., vegetation clearance or rough grading) needed to allow that.

3.3 UH HILO EDUCATIONAL TELESCOPE

3.3.1 BACKGROUND

The Department of Physics and Astronomy at UH Hilo offers two programs, the Bachelor of Science degree in Astronomy and Bachelor of Arts degree in Physics. Both degrees have their own mission statements, which are closely aligned with the mission of UH Hilo at large. The UH Hilo astronomy program aims to: (i) develop the science knowledge and analytic skills of students, whether they be majors or not, through a focus on the field of astronomy and (ii) instill an appreciation of science, particularly astronomy, in students. The program provides its students with transferable skills so they can excel in a wide range of STEM-related fields. It presently offers astronomy courses every semester that are designed to build expertise in data acquisition and analysis and to provide hands-on experience handling the necessary hardware and software. Skills acquired through the programs position graduates for operations-related employment at the Mauna Kea Observatories (MKOs), employment in other STEM-related fields, or, for those who are committed to making a career of advanced research in the field of astronomy, graduate-level education in astronomy. Five of the courses have laboratory components that would use a telescope if it were available; educational material (e.g. celestial object pictures or spectra) produced during these laboratories could also be used during lecture-based courses. At one time, facilities at Astronomy Site 9 (Hōkū Keʻa) were used for this purpose, but those became unusable in 2006. UH Hilo acquired a state-of-the-art PlaneWave Instruments CDK700 (PIC700) telescope system, a suite of instruments, and a modern AstroHaven “clamshell” 18-foot dome for the laboratories. With an aperture of 0.7 meter (28 inches) and a focal ratio of F/6.5 (Figure 3-3), the PIC700 is currently housed in a room on the UH Hilo campus. While it can be/is being used to train students on the purely mechanical aspects of telescope operations, at its current location it cannot be used to train students in real observing sessions.
"become" should be changed to "became"

Consider the environmental impacts of paving. The drainage is better without paving. Keeping in mind pollution and general water runoff, erosion, and all water sources (above or below ground) connected to this area.
Both programs described above have identified a need for access to a working modern, small-aperture telescope on Maunakea as an important component of their desired educational programs. After an extensive search for a suitable site for the educational telescope (about 16 different locations were considered), UH Hilo identified an area at Halepōhaku as an excellent location for such an instrument. Skills acquired through the operation of such an educational telescope, along with visits to astronomy facilities in the MKSR, would better position the students for employment at the MKOs and elsewhere in the world astronomical research community. In addition, faculty and students at both UH Hilo and UH Mānoa would use it for laboratory courses and research projects. An educational telescope at Halepōhaku could also be employed for outreach events and for programs involving the Island community that would help UH build a stronger bond between astronomy on Maunakea and the community. It is expected that telescope time will be made available to students and the community interested in astronomy or for educational purposes.

The UH BOR Resolution 19-03 dated November 6, 2019 (Appendix C), directed that Astronomy Site 9 (Hōkū Ke’a) be decommissioned and that “...a new educational telescope facility for the University of Hawai‘i at Hilo shall be established at Halepōhaku or elsewhere.” UH’s present intent is to site the educational telescope within Halepōhaku, and it has commissioned a planning and design team for the proposed educational telescope project that will lead the project review process, prepare an HRS Chapter 343 environmental document, and prepare a Conservation District Use Application (CDUA) for the facility that UH will submit to DLNR.
#024

Posted by Andy Sheinis on 10/15/2021 at 12:40pm [Comment ID: 183]
Type: Suggestion
Agree: 0, Disagree: 0

Should you say that this will be the ONLY educational telescope at HP? or has that been decided?

#025

Posted by James Coulter on 09/24/2021 at 9:18pm [Comment ID: 79]
Agree: 0, Disagree: 0

Glad to see some sights decommissioned. Glad to see emphasis on an educational telescope for students. Most glad to read that emphasis will be placed on respecting and protecting cultural practitioners, and generally respecting the wishes of Hawaiian traditionalists. Also glad to hear of expansion and maintenance of trails and shelters and infrastructure for park rangers. I hope the decommissioning happens in a timely and thoughtful way. Perhaps if enough work is done to Ho’oponopono, the resistance to the TMT will decrease. But developing trust of the community takes time and consistency. Aloha.

#026

Posted by Andy Sheinis on 10/15/2021 at 12:39pm [Comment ID: 182]
Type: Suggestion
Agree: 0, Disagree: 0

Is there a way to make it very explicit that the educational facility is NOT subject to the 9 telescope limit? The plan states that the limit is for MKSR and HP is not part of the MKSR, but I worry that this could be misinterpreted as was the Governor’s 10-point plan.... Overall, excellent plan! Obviously this has been a ton of work and it shows.

#027

Posted by anonymous on 10/26/2021 at 11:40am [Comment ID: 463]
Agree: 0, Disagree: 0

This idea is just another way to force Native Hawaiians into a world already dominated by the community who believe their progress comes before Native issues.
More specifically, UH Hilo has identified one primary and one backup location at Halepōhaku to date. The primary location is adjacent to the smallest of the four dormitories (Dormitory A) in the upper portion of Halepōhaku (see Figure 3-4). This site offers limited light pollution, good sky visibility, and is near power and communication infrastructure. The site has been tested using a smaller, portable telescope and was found to be suitable. An already identified backup location is land adjacent to one of the four Subaru-built construction cabins in the lower portion of Halepōhaku. This site is also believed to be suitable, but less so due to light pollution from passing vehicles on the main road. The proposed structure is comparatively much smaller than the astronomy facilities on the MKSR, with a profile that is no taller than existing Halepōhaku structures and taking up a small portion of a previously disturbed area. Additional and more refined alternatives may be identified as UH consults with the community as part of the planning and design team’s work.

Figure 3-4: Conceptual Illustration of Educational Telescope by Dormitory A

UH Hilo has passed the following educational telescope milestones:

- In February, 2020, it displayed the Planewave 0.7-meter telescope at the Imiloa Center. This was the first time that it was displayed to the public, and hundreds of persons stopped by, including a lot of young minds who could move the telescope using the control interface.
- Mid-2020, a project was formally initiated by UH Hilo for the educational telescope.
- In September, 2020, UH Hilo initiated a community outreach and consultation campaign regarding the possible installation of the new educational telescope. The effort included a virtual open house website, where diverse pieces of information are presented and where members of the public could record their questions and comments.

An EA is currently being developed and is expected to be available before the end of 2021.
#028

Posted by anonymous on 10/26/2021 at 11:39am [Comment ID: 462]
Agree: 0, Disagree: 0
Where are the results from this session? These info sessions need to be more accessible for everyone.

#029

Posted by anonymous on 10/26/2021 at 11:38am [Comment ID: 461]
Agree: 0, Disagree: 0
So, during this whole time UH has just decided to stoping "listening to the voice" and proceeded with a "solution" of adding another telescope.
3.4 OTHER HALEPŌHAKU FACILITIES

As described in Section 3.1, there have been dramatic changes over the past two decades in demand for facilities at Halepōhaku. Moreover, further changes are anticipated as UH implements access management that is called for in the CMP and that has been discussed in previous planning documents. UH seeks to accommodate current and anticipated future needs by re-aligning usage of the existing facilities with limited physical modifications to yield better outcomes for diverse stakeholders.

3.4.1 REPURPOSING OVERVIEW

UH is deeply committed to expanding research and educational opportunities on Maunakea in fields beyond world-class astronomy. UH seeks to engage scholars, students, and the public in a broad range of disciplines related to understanding, preserving, and enhancing the cultural landscape, historic properties, and natural resources of Maunakea. To support this broadened range of activity, UH envisions that portions of the facilities at Halepōhaku will evolve into an integrated “Multidisciplinary Field Station” that will support field studies and learning experiences across disciplines and will encourage opportunities for formal and informal collaboration and interaction. Beyond the educational benefit of field-learning, expanded educational and research programs would also expand the opportunity for applied research that would support and inform management actions called for in the CMP.

UH Hilo will be the lead UH campus for the broadened Halepōhaku mission. However, educational and research opportunities will be available throughout the UH System, and perhaps beyond. This will allow facility use (and associated costs) to be shared by multiple departments and schools within the UH system and perhaps others, together with the MKOs.

The Maunakea astronomy community, as a key user and primary funder of the Halepōhaku facilities, will be key participants in this evolution. Existing services for the astronomy community will continue, including food, lodging, and office space capable of supporting surge-levels when necessary, but downsizing will almost certainly be undertaken given the reduced level of astronomy-related use of the mid-level support housing and related space. UH managers (i.e., Rangers, CMS staff, etc.) will similarly retain the office space and other facilities they need to manage UH’s activities on Maunakea. CMS will seek opportunities for interaction and synergy between users of the Halepōhaku facilities to enhance scholarship, education, and mutual understanding. CMS will consult with various user groups through a process of repurposing to identify and mitigate potential conflicts arising due to the differing needs and desires of the various user groups.

The extent and specifics of the expanded program are yet to be fully defined, but to achieve its goals and optimize the usage of facilities that it continues to operate and maintain, UH anticipates the need to reconfigure, modify, repurpose, and/or remove certain facilities at Halepōhaku. Limited new facilities, such as the UH Hilo educational telescope, may also be developed. CMS and UH Hilo will continue to seek input from stakeholders and consider alternatives for the Field Station. Examples of possible repurposing concepts include:

- Expanding access to the “common building” and dorms (Figure 3-1) to non-astronomy faculty, researchers, students, and other UH-affiliated or -sponsored programs for food
#030

Posted by James A. Monk on 09/21/2021 at 11:37am [Comment ID: 67]

Type: Typo
Agree: 0, Disagree: 0
remove ")", insert ","
service, meetings, and overnight stays. It is envisioned that students from high schools age and older could utilize the lodging facilities while participating in resource-based educational programs.

- Repurposing existing facilities to accommodate classrooms, offices, laboratory facilities, and other Field Station needs.
- Repurposing the stone cabins (Figure 3-1) and associated water tanks to create additional space for visitor information and education and Ranger functions as well as water sources for conservation projects.
- Repurposing the construction cabins (Figure 3-1) to create additional space for visitor information and education and Ranger functions.

To the extent that re-purposing proves impractical, removal at some of the building sites may be appropriate.

3.4.2 Specific Projects

In addition to the general repurposing concepts discussed above, several specific proposals for projects at Halepōhaku have already been identified. They include, but are not limited to, the following:

- Grading and paving the currently unpaved parking area immediately to the west of the Halepōhaku “common building.” This may involve structural components and drainage components similar to the infrastructure improvements at the VIS that were completed in 2019.
- Conducting habitat rehabilitation or restoration projects as called for in the CMP.
- Producing and outplanting native species as called for in the CMP.
- Erecting educational, safety, and interpretive signs as called for in the CMP.
- Improving pedestrian connectivity between existing and future trails in the neighboring Forest Reserve that are sanctioned by DLNR, the “common building,” stone cabins, VIS, and/or construction cabins.
- Building new facilities or adding to existing facilities to support (i) the Field Station, (ii) the VIS and stargazing, and (iii) access management.

In addition to those projects listed above within Halepōhaku, access management facilities may be placed along the access road adjacent to Halepōhaku. These facilities would likely occur outside the boundaries of Halepōhaku (TMK No. (3) 4-4-015:012), and so are discussed in Section 5.3.
Visitor information services can be very over rated. They end up needing substantial funding for upgrading content and displays, parking area, etc. They can innately draw more people to an already impacted area without providing quality, quantitative educational outcomes. They end up closed for large portions of the day, closed when their governing body decides (covid, federal funding gaps, etc). Investing in more meaningful passive opportunities - cultural gathering spaces, protecting and highlighting (with collaboration and permission) cultural sites, investing in community based and classroom education that then feeds students into the higher learning opportunities on site. Strategic partnerships with hotels, tour agencies, airlines...rethink the ideas of visitor centers.

Wait, later in the draft it says the classrooms would not be added to the Mauna. Why are these considerations of additional facilities being presented here?
4 MAUNA KEA SCIENCE RESERVE

This chapter lays out the land use plan for TMK No. (3) 4-4-015:009, the area known as the Mauna Kea Science Reserve (MKSR). It discusses all facilities and projects likely to be proposed in the MKSR that may be deemed land uses under DLNR’s Conservation District Rules, except those related to roadways, utilities, and managed access (which are discussed in Chapter 5).

UH expects there to be few new facilities developed within the MKSR over this Master Plan’s duration. Nearly all land uses will occur in previously disturbed areas and where facilities exist today. Very little new ground disturbance will occur within the MKSR over the 20-year period; the vast majority of the MKSR will remain wilderness. Excluding roads and utilities, less than half of one percent of the approximately 11,288-acre MKSR has been disturbed/developed.

This Chapter is divided into the following main parts:

- Section 4.1 presents the MKSR planning context.
- Section 4.2 discusses facilities and developments that UH expects will be needed to carry out its management responsibilities, ensure responsible stewardship, and facilitate public activities.
- Section 4.3 discusses astronomy-related facilities and the other research and educational facilities and developments.

4.1 PLANNING CONTEXT

4.1.1 BACKGROUND

Maunakea was first identified as a highly desirable location to site astronomy facilities in the early 1960s, and subsequent testing and long experience with multiple astronomy facilities have confirmed that astronomical viewing conditions on Maunakea are second to none in the Northern Hemisphere. Those natural conditions and the now well-developed infrastructure make Maunakea a highly desirable location for astronomical research that attracts scientists from around the world. The collaborative work that it fosters is at the heart of many of the most important discoveries that have been made about the universe over the past several decades.

As discussed in Part 1 of this Master Plan, Maunakea is not solely a unique astronomical resource; it is a special natural, biocultural, and social ecosystem that has much to teach us about our origins, future, human nature, history, ‘i ke Hawai‘i (traditional knowledge), climate, and so much more. This Master Plan envisions proposals that expand scientific inquiry on Maunakea beyond astronomy. Future educational opportunities are still to be developed, but UH has heard from researchers in numerous fields that believe study within the MKSR will be informative and fruitful, and provide insights in other fields. It will be a place for integrating multiple disciplines and addressing diverse topics.

For the first several decades of its management of Maunakea, UH’s charge from the legislature and executive branch led it to prioritize astronomy-related goals. Since then, UH has been increasingly responsive to changing community and governmental priorities that place a much greater emphasis on the stewardship, conservation, and study of Maunakea’s cultural landscape.
and natural resources. Stewardship, conservation, and non-astronomy education goals have not required the establishment of new facilities or developments to date; therefore, nearly all the vertical facilities in the MKSR in 2021 are related to astronomy. Table 4-1 and Figure 4-1 summarize the existing astronomy sites and facilities within the MKSR.

“Astronomy Sites” are the specific locations, typically defined by sublease areas, where astronomy facilities have been or may be developed. The astronomy sites are numbered generally clockwise from Astronomy Site 1 (Subaru) to Astronomy Site 13 (TMT); Astronomy Site 14 (VLBA) is removed from the others on the southern slope of Maunakea (Figure 4-1). The astronomy site boundaries are based on the following:

- For astronomy sites that have, or had, subleases, the boundary is the sublease metes and bounds.  
- For astronomy sites that never had a sublease (the two astronomy facilities, Site 7 (UH 2.2m) and Site 9 (Hōkū Ke’a), always owned by UH), the boundary was established based on the extent of the existing facilities, disturbed areas, their relationship/proximity to adjacent uses, and topography.

Table 4-1: Astronomy Sites and Facilities in the Mauna Kea Science Reserve

<table>
<thead>
<tr>
<th>Astronomy Site #</th>
<th>Facility Name</th>
<th>CDUP Number &amp; Year Approved</th>
<th>Year of First Light</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Subaru</td>
<td>HA-2462, approved in 1992</td>
<td>1999</td>
</tr>
<tr>
<td>2</td>
<td>Keck I</td>
<td>HA-1646, approved in 1984</td>
<td>1990</td>
</tr>
<tr>
<td>3</td>
<td>Keck II</td>
<td>HA-2509, approved in 1992</td>
<td>1996</td>
</tr>
<tr>
<td>4</td>
<td>IRTF</td>
<td>HA-653, approved in 1975</td>
<td>1979</td>
</tr>
<tr>
<td>5</td>
<td>CFHT</td>
<td>HA-527, approved in 1974</td>
<td>1979</td>
</tr>
<tr>
<td></td>
<td>Gemini</td>
<td>HA-2691, approved in 1994</td>
<td>2000</td>
</tr>
<tr>
<td>7</td>
<td>UH 2.2m</td>
<td>HA-954, approved in 1977 (post facto), (aka UH 88inch)</td>
<td>1970</td>
</tr>
<tr>
<td>8</td>
<td>UKIRT</td>
<td>HA-653, approved in 1975</td>
<td>1979</td>
</tr>
<tr>
<td></td>
<td>Hōkū Ke’a</td>
<td>HA-3406, approved in 2007</td>
<td>NA</td>
</tr>
<tr>
<td>10</td>
<td>CSO</td>
<td>HA-1492, approved in 1982</td>
<td>1986</td>
</tr>
<tr>
<td>11</td>
<td>JCMT</td>
<td>HA-1515, approved in 1983</td>
<td>1987</td>
</tr>
<tr>
<td>12</td>
<td>SMA</td>
<td>HA-2728, approved in 1994</td>
<td>2002</td>
</tr>
<tr>
<td>13</td>
<td>TMT</td>
<td>HA-3568, approved in 2017</td>
<td>NA</td>
</tr>
<tr>
<td>14</td>
<td>VLBA</td>
<td>HA-2174, approved in 1989</td>
<td>1992</td>
</tr>
</tbody>
</table>

Source: UH and DLNR

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19 Vertical facilities are those that rise substantially higher than the natural ground surface and include all buildings, but do not include roads and utilities.

20 The extents of Astronomy Sites 2 and 3 (Keck I and Keck II) are based on dividing the single Keck sublease area into two sites based on drawings including in CDUP applications for the two facilities (HA-1646 and HA-2509).

21 Astronomy facilities developed prior to 1971 were permitted post facto by CDUP HA-954. As outlined in the DLNR’s staff report for that CDUP (DLNR, 1977), participants in the MKSR master lease (e.g., UH) likely did not seek additional approvals when the pre-1971 facilities were built because they assumed that the lease and purposes of the MKSR permitted the construction of observatories. The report states, “It is felt that the failure to obtain the approval of the Board for the use of State-owned conservation lands may well be based on assumption rather than outright omission.”
#033

Posted by Anonymous on 10/25/2021 at 6:40am [Comment ID: 283]

Type: Suggestion
Agree: 0, Disagree: 0

Respect native Hawaiian voices and do not build TMT.

#034

Posted by Estier on 10/25/2021 at 9:20pm [Comment ID: 366]

Type: Suggestion
Agree: 0, Disagree: 0

The TMT should not be developed at all. A strong case against it has been made by kānaka maoli and conservationists, who have demonstrated how it will disrupt both critical Palila habitat and kānaka connection to sacred land. Above all else, Hawai‘i is Kānaka maoli land, and as guests on this land, we must respect their wishes, and they clearly oppose development of the TMT. To go against these demands and develop the TMT anyways would be continuing a harmful and unethical tradition of settler colonialism that needs to stop now. The kia‘i have fiercely defended Mauna Kea from settler colonialist development for years, and it is long overdue that we honor these efforts by halting all plans to construct the TMT.
Figure 4-1: Mauna Kea Science Reserve Astronomy Sites

Source: PSI
Why is the TMT shown on this map? It is not here and the community does not want it. Showing it on the map suggests it will be built.

---

TMT is located on the pristine northern plateau. It is NOT okay to continue with plans to build this telescope. How many times have we said no? You must take into account the cultural and environmental impacts of this construction and your public trust duty. What will be left of our land-base? These are Crown Lands, made inalienable in 1865. See pages 5-6: "The degradation principle renders inconsequential the failure of the State to meet its constitutional duty to protect natural and cultural resources for future generations. It renders illusory the public trust duty enshrined in the Constitution of the State of Hawai‘i and heretofore in the decisions of this court to protect such resources. And its policy of condoning continued destruction of natural resources once the resource value has been substantially adversely impacted is contrary to accepted norms of the environmental rule of law." II. The BLNR and the Majority Fail to Comply with the Requirement of HAR § 13-5-30(c)(4) that the Impact of the Thirty Meter Telescope upon the Existing Adversely Impacted Cultural Resource Be Considered." (p. 5-6) https://www.courts.state.hi.us/wp-content/uploads/2018/11/SCOT-17-0000777disam.pdf

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You aren't listening. This feels really redundant at this point. This draft for the UH master plan is extremely misguided if TMT and continued use of Mauna Kea for astronomy is any part of it. Clearly, you aren't listening to Native Hawaiians who have contested every telescope that has been built without our consent. This is an extremely emotionally taxing effort to ask for our opinion and then ignore it over and over again.
4.1.2 UH COMMITMENTS

UH’s vision and goals recognize that astronomy on Maunakea can only continue to the extent that it is sensitive to and respectful of Maunakea’s cultural landscape and natural resources, and (ii) it contributes to the area’s stewardship, preservation, and utilization by others. Accordingly, UH has committed to reducing the number of operating astronomy facilities. Although a reduction in the number of astronomy facilities may adversely affect UH’s astronomy program and the MKOs in the short-term, UH believes it is likely to contribute substantially to the achievement of non-astronomy goals and objectives while also allowing the State and its residents to continue to reap the substantial scientific, cultural, and economic benefits that astronomy facilities in the MKSR provide.

This Master Plan reflects UH’s specific commitments, which include:

- Decommissioning the astronomy facilities on the following astronomy sites in accordance with approved site-specific Site Decommissioning Plans, and abstaining from any future reuse of the sites for astronomy:
  - Astronomy Site 9 (Hōkū Ke‘a), already started with significant progress;
  - Astronomy Site 10 (Caltech Submillimeter Observatory), already started with significant progress;
  - Astronomy Site 14 (Very Long Baseline Array) prior to December 31, 2033; and
  - Two additional sites within the MKSR before the December 31, 2033.

- Ensuring that Astronomy Site 13 will be the last new site developed for an astronomy use in the MKSR.

By December 31, 2033, and throughout the remainder of the time covered by this plan, there will be not more than nine (9) operating astronomy facilities in the MKSR. This will be achieved by adhering to the commitments listed above. Which astronomy sites and facilities continue beyond 2033 and which are decommissioned will be established via the process outlined in Appendix D. These commitments will also support UH’s compliance with existing permits and governmental approvals. Astronomy uses, including continued operation, modification, and recycling described in Section 4.3, will continue on Astronomy Sites not decommissioned.  

UH believes that the scheduled reduction in astronomy facilities between now and 2033 will make an important contribution towards achieving the goals stated in Part 1 of this Master Plan. If realized, it will allow a sufficient number of astronomy facilities to remain on Maunakea to maintain its and Hawai‘i’s position as a world center of astronomical research. At the same time, it provides space, facilities, and encouragement for non-astronomical research, education, and other activities that will foster the responsible stewardship and sustainable use of Maunakea and a balance among those seeking their place on the mountain.

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22 As described in Section 3.3.4.3, a portion of Astronomy Sites 7 and/or 8 may continue to be utilized for astronomy in the event that one of those sites is decommissioned and the other is selected for recycling.
Please explain how this reduction serves the stated goals, and why they cannot be satisfied better via other mechanisms.

These activities seem to be just set up for a facade of caring for the Mauna.

Space, facilities and encouragement are already available without reduction.

The TMT should not be developed at all. A robust case has been made against it by kānaka maoli and conservationists, who have brought up concerns that the telescope will disrupt critical Palila habitat and indigenous connections to sacred land. Above all else, Hawai‘i is Kānaka land, and as guests on this land, we must respect their wishes. Otherwise, we risk continuing a harmful and unethical tradition of settler colonialism. The kia‘i have fiercely protected Mauna Kea from settler colonialist development for years, and it is time that we honor these efforts by halting plans to build the TMT on Mauna Kea.

I do not think the plan should make commitments to limit new sites and capacities. The human race may need new astronomical observations, locations of asteroids to mine, alien transmitter capacity, anything could be possible in a time of dramatic climate change and environmental shifts.
Limiting to nine sites might be too much of a reduction to fulfill the goals of scientific research and education.

#044

Is there a public oversight committee on this?

#045

This again is UH's opinion and not the option of the Native Hawaiian public. These standards need to be reevaluated.
4.2 MANAGEMENT & STEWARDSHIP-RELATED FACILITIES & PROJECTS

This section is divided into two parts. The first addresses facilities and projects related to UH’s management and stewardship responsibilities. The second part describes facilities and projects intended to support and facilitate public activities.

4.2.1 ADDRESSING STEWARDSHIP MEASURES IN THE CMP

The CMP specifically calls for several stewardship measures that involve facilities and actions typically governed by DLNR’s Conservation District Rules. These management actions and projects may entail the construction of minor facilities and land modifications within the MKSR. They may include, but are not limited to, the following:

- **Producing and outplanting native species**, which is called for by CMP Management Actions NR-3 and NR-9. The focus of these management actions is Halepōhaku because producing and outplanting is unlikely to occur in the MKSR’s alpine ecosystem.

- **Fencing areas of high native biodiversity or populations of endangered species**, which is called for by CMP Management Action NR-8. Fencing is unlikely to occur within the MKSR given the fencing of Maunakea at lower elevations by DLNR and the conditions within the alpine ecosystems.

- **Conducting habitat rehabilitation or restoration projects**, which is called for by CMP Management Action NR-12. Rehabilitation or restoration projects may occur where the land was previously disturbed (e.g., the Pu‘upoli‘ahu access trail) or land is accidentally disturbed in the future. The likelihood of implementing such projects may increase if such projects, including astronomy site restoration efforts, prove to be successful.

Each stewardship measure will be undertaken where they are biologically appropriate; biological conditions inherently required for them will dictate the range of options available. When selecting a site, consideration will be given to potential adverse impacts, including impacts to the cultural landscape, natural resources, visual resources, and proposal-specific concerns.

4.2.2 FACILITATING PUBLIC ACTIVITIES

Given the expected continued growth in demand for experiences on Maunakea, UH believes that public facilities such as restrooms, shelters, signs, designated parking areas, and trails aimed at non-astronomical visitors to the summit area will be necessary to manage activities in a way that minimizes their potential adverse effect on the cultural landscape, protects natural resources, and improves safety. Storage spaces and ranger offices needed to aid in facilitating public activities may be incorporated into the public facilities or will utilize existing space in astronomy facilities.

The public facilities considered in this section will be sited, designed, and sized in a manner that is consistent with UH’s commitment to manage access to Maunakea. UH intends to manage the

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23 This bullet point is included in this section to ensure that it is provided for should conditions and priorities change over the 20-year plan period (e.g., climate change has been shown to affect the elevation at which particular species are successful).
#046

Posted by James A. Monk on 09/21/2021 at 8:37pm [Comment ID: 68]
Type: Typo
Agree: 0, Disagree: 0
add "s"

#047

Posted by Casey Nakamura on 10/25/2021 at 3:36pm [Comment ID: 336]
Agree: 0, Disagree: 0
In previous EIS's, UH and the public were informed that there would in fact be adverse impacts to the areas that the telescope would be on/around. That alone should just halt the project. If it is proven that there would be any form desecration of sacred land you don't continue a project like that. If compensation for construction has to take place (ie. producing and planting more native species for the area) then that should be an indicator that the project should not continue. We should simply be taking these positive measures by themselves, not utilizing them as a means of throwing people a bone to keep them settled and quiet. Land stewardship is something that should take place with leadership from those who are native or indigenous to the land. And the natives of this land have spoken out about how they wish the land to be taken care of. This project continues to dismiss them and undermine them.

#048

Posted by Harry Hashimoto on 10/25/2021 at 8:35pm [Comment ID: 351]
Agree: 0, Disagree: 0
I feel that Maunakea belongs to all the people and not just a select few and their ideas. We must work together to allow the use of the mountain to benefit all. I feel that the building of the telescope will benefit everyone in gaining knowledge of the stars and universe around us.

#049

Posted by anonymous on 10/26/2021 at 11:54am [Comment ID: 469]
Agree: 0, Disagree: 0
So you're covering your bases and choosing to not focus on actually protecting the native habitat. I know that the UH chose to focus on astronomy but as the LEGAL caretakers of Mauna Kea, the actual restoration and protection is a necessary and essential requirement of your job. You cannot just pick and choose what you want to be a part of because it makes you money. You need to protect Mauna Kea or hand over the stewardship and land leases to another entity.

#050

Posted by anonymous on 10/26/2021 at 9:21am [Comment ID: 415]
There needs to be more information about the increased activities on Mauna Kea regarding the public. Instead of spending money on creating more facilities on the Mauna, UH needs to be encouraging less tourism and more access for Native Hawaiians.
number of vehicles (Section 5.3), and thereby people, ascending above Halepōhaku in a manner that preserves the ambiance and feeling of the cultural landscape and minimizes adverse effects on the alpine ecosystem and other resources. Therefore, the facilities and projects discussed in this section will be sited and designed to accommodate fewer people than were present in the recent, pre-pandemic, past. More specifically, they will be sized to accommodate only the number of vehicles and visitors expected with active access management as described elsewhere in this plan (Section 5.3) and designed to provide a safe and rewarding experience for those who do enter.

Proposed facilities will be confirmed to be scientifically, culturally, and site-appropriate through the UH project review process described in Part 3 of this Master Plan. Consideration will be given to potential adverse impacts, including impacts to the cultural landscape, natural resources, and visual resources. When possible, proposed facilities will be co-located and programmed for multiple purposes with other existing or proposed facilities to minimize impacts and encourage beneficial relationships among all those visiting the UH Maunakea Lands. Facilities will be preferentially sited in locations that have been previously disturbed, unless the proposal requires undisturbed lands or where essential for safety or other considerations, in which case these facilities may be sited in undisturbed areas.

The facilities that UH has already determined it may consider within the MKSR over the term of this Master Plan are described in the following sub-sections. However, other uses may be proposed by UH or other parties as well, and their absence from this Master Plan does not exclude them from consideration under the framework laid out under this Master Plan.

### 4.2.2.1 Restrooms and Shelters

The portable toilets that are now located within the summit area provide a great improvement over the “no public toilet” situation that existed for many years in the MKSR. Despite the presence of these portable toilets, rangers and/or astronomy facility personnel are still regularly called upon to clean up human waste. This continuing burden is due to: (i) undesignated public parking areas within the MKSR, (ii) the type and limited number of toilets provided, (iii) the fact that visitors are not always aware the facilities exist, and (iv) the facilities’ excessive distance from some locations where visitors congregate.

To mitigate this issue, UH will designate public parking areas as provided for in the UH Maunakea Rules (HAR Chapter 20-26) and maintain, reposition, and increase the number of portable toilets in the MKSR until improved permanent facilities can be developed. The repositioning of existing and future portable toilets may be necessary during construction and decommissioning projects. Once improved permanent restrooms are available, nearby portable toilets will be removed.

UH will investigate the extent to which it may be able to provide permanent public restrooms and shelters that can serve the MKSR. Stakeholders, including BLNR, have identified the need for shelter, particularly shelter that would be helpful to cultural practitioners, the public, and the rangers. Shelters to provide a place where cultural practitioners and others could assemble and rangers could store safety equipment and have office space will be considered.
Agree: 0, Disagree: 0
Access to clean and available toilets is very important for the health and safety of everyone who visits Mauna Kea

#052
Posted by James A. Monk on 09/21/2021 at 8:39pm [Comment ID: 69]
Type: Typo
Agree: 0, Disagree: 0
remove second "for"

#053
Posted by CP on 10/26/2021 at 9:49pm [Comment ID: 537]
Type: Suggestion
Agree: 0, Disagree: 0
simple shelters for cultural practitioners yes. everything else can be done from the lower area that with VIS.

#054
Posted by CP on 10/26/2021 at 9:47pm [Comment ID: 535]
Type: Suggestion
Agree: 0, Disagree: 0
This shouldn't be an option. It appears as though with decommissioning and re-purposing we should have stronger language about not needing to enter new undisturbed land. Commit to it.

#055
Posted by CP on 10/26/2021 at 9:48pm [Comment ID: 536]
Type: Suggestion
Agree: 0, Disagree: 0
yes. lowest impact toilet option possible though.

#056
Posted by Rodrigo FV Romo on 10/04/2021 at 2:28pm [Comment ID: 93]
Type: Suggestion
Agree: 0, Disagree: 0
This issue of visitors not knowing where the facilities are can be addressed and mitigated through the controlled gated access to the summit. At the gate, the ranger in charge can provide an information brochure indicating where services are. A similar
scenario as what takes place at Volcano National Park.

Reply by Rodrigo FV Romo on 10/04/2021 at 2:30pm [Comment ID: 94]
Agree: 0, Disagree: 0
An alternative to this is if shuttles are used to transport people to the summit rather than their private vehicles, the shuttle drivers can inform the passengers of the location of service facilities as they drive by them,

#057

Posted by Lehuakona on 10/25/2021 at 9:26pm [Comment ID: 368]
Agree: 0, Disagree: 0
With proper facility construction, multiple viewing and educational sites, and especially shuttle bus transportation, more people than previously could be managed well, providing greater opportunities for cultural and scientific education and employment.
Siting considerations for these facilities include:

- Proximity to where people, including the public and cultural practitioners, presently or will in the future congregate, such as near designated public parking areas, shuttle stops, popular sunset viewing areas, and trailheads.

- Preference for areas that:
  - Have been previously disturbed, including the adaptive reuse of decommissioned or recycled astronomy sites and facilities. Astronomy sites where it may be more likely to consider this include Astronomy Sites 7 (UH 2.2), 8 (UKIRT), 9 (Hōkū Keʻa), and 14 (VLBA), should they be decommissioned. Such adaptive reuse would not be contemplated at more than two astronomy sites on the summit ridge (sites 1 through 9) and one of the other sites (sites 10 through 14).
  - Are next to or near existing improvements, including astronomy facilities.24
  - Minimize visual impacts.
  - Provide a buffer from areas with high native species diversity, unique biological communities, unique geological features, or sensitive cultural sites.

- Ease of access by maintenance vehicles and personnel.

- Proximity to existing utility lines if utility connections are required.

- Provide a buffer, established in consultation with SHPD, from archaeology sites (Figure 4-2).

**4.2.2.2 Public Parking**

HAR § 20-26-28 provides that parking a motorized vehicle outside designated parking is prohibited. Currently there are three public parking areas along the Mauna Kea Access Road, which are listed below; there are no officially designated public parking areas along the road that serves the summit ridge.

- Parking Area 1 with 12 stalls at roughly 11,860 feet elevation.
- Parking Area 2 with 22 stalls at roughly 12,815 feet elevation.
- Parking Area 3 (aka the Batch Plant Parking Area) which is permitted for six stalls at roughly 13,250 feet elevation.

The siting, design, and size considerations listed in Section 4.2.2.1 also apply to new public parking.

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24 Facilities could be attached to existing UH-owned astronomy facilities, but placement of public facilities on astronomy sites subleased to other entities would require modification of agreements. Public facilities would need to avoid or minimize impacts to astronomy facility operations and safety hazards related to falling ice and other hazards.
#058

Posted by sam nelson on 10/24/2021 at 5:22pm [Comment ID: 264]
Type: Suggestion
Agree: 0, Disagree: 0
I suggest adding more parking areas
Figure 4-2: Archaeology Sites in the UH Maunakea Lands

Source: PCSI.
#059

Posted by CP on 10/26/2021 at 9:55pm [Comment ID: 540]
Type: Suggestion
Agree: 0, Disagree: 0
This is so clear why there should be no site 13. No TMT.
UH has identified and is continuing to evaluate public parking needs and the potential need for improvements. The parking area improvement projects that it believes are most likely to be pursued include, but are not limited to, those shown on Figure 4-3. They include: (i) designating and improving areas in the summit region for visitor and commercial tour parking; (ii) installing informational and regulatory signs; and (iii) placing safety devices (e.g., barriers preventing runaway vehicles and off-road driving) in those areas currently used for parking on an ad hoc basis. As depicted in Figure 4-3, these public parking areas are situated on portions of Astronomy Site 7 (UH 2.2), Site 8 (UKIRT), and Site 9 (Hōkū Keʻa). Because members of the public and commercial tour operators have been parking their vehicles and viewing the sunset or conducting other activities from these areas for many years, this amounts to a continuation of present use. However, the Astronomy Site decommissioning that is scheduled, the planned establishment of a shuttle service, and the preparation of this Master Plan provide an opportunity to formalize and improve on what has until now been an ad hoc practice. Other areas will be considered and may also be designated and improved following consultation with stakeholders.

**4.2.2.3 Sign**

UH will install and maintain all signs within the MKSR in accordance with the *Maunakea Sign Plan* (Office of Maunakea Management (OMKM), February 2017), which was prepared to address CMP management action EO-4. These will include educational, safety, and interpretive signs. In addition to making users aware of safety and conservation issues, the signs will identify unique geologic features and inform them of the best ways to conserve them. The plan provides policy concerning sign standards, types, design, siting, approval, and maintenance.

The types of stand-alone signs that may be installed in the MKSR include signs related to traffic control and the location of designated public parking areas, temporary traffic control warnings, and visitor information. The latter category includes such things as interpretive and wayside exhibits (e.g., historic site interpretation, exhibits regarding geologic features), trailhead signs, and signs related to resource protection (e.g., outline protection afforded to historic sites). Signs complying with the Maunakea Sign Plan may also be installed as components of other approved land uses. In addition to compliance with the sign plan, signs may be bilingual and utilize iconography, when appropriate.

Signs will be placed only where they are biologically and culturally appropriate, where necessary for safety purposes, and/or where people can or do congregate to appreciate the landscape and resources in the area. During site selection, consideration will be given to potential adverse impacts, including impacts to the cultural landscape and natural resources. The proximity of utilities will also be considered in the unlikely event signs require utility connections. Signs will preferentially be sited in locations that have been previously disturbed and collocated with restrooms, shelters, public parking, and trailheads. Where appropriate for safety or other considerations, these minor facilities can be sited in undisturbed areas.\(^{25}\)

\(^{25}\) Undisturbed areas are those areas outside of the astronomy sites that have not been visually affected by human activity. All areas within the astronomy sites, including decommissioned and restored astronomy sites, are considered disturbed.
Signs can be helpful. Directions. Restrooms. Yes. Reminders on being respectful. But its cold up there. Don’t invest time and money marking up the landscape on signs that will not be read because of logistics like temperature and daylight.

One of the stated purposes in this report of expanding astronomy-related infrastructure on Mauna Kea is to move away from economic dependence on tourism. Yet here, UH suggests expanding tourism infrastructure (see also, shuttle service in Section 5.3.2) on the Mauna.

The word should be changed to "Signage" or "Signs"
Figure 4-3: Potential Parking Project Locations in Summit Region

Astronomy Site 5
Current use: Canada France Hawai’i Telescope

Astronomy Site 6
Current use: Gemini

Astronomy Site 7
Current use: UH 2.2m (1.94 acres)

Astronomy Site 8
Current use: UKIRT (0.77 acres)

Astronomy Site 9
Current use: Hoku Ke'a (undergoing decommissioning)

Potential Public Parking Areas

Source: PSI
The great majority of the trails on Maunakea are outside the MKSR on land that is either within the neighboring Mauna Kea Ice Age Reserve NAR or within the Mauna Kea Forest Reserve. These areas are managed by and under the jurisdiction of DLNR. Nevertheless, hiking is a relatively common recreational activity in the MKSR; it is concentrated on the few better-known trails in the MKSR. Hiking near the summit of Maunakea is challenging and potentially hazardous for two main reasons.

- First, because the amount of oxygen in the air is only about 65 percent of what it is at sea level, individuals must breathe faster to compensate for the oxygen shortfall, and the heart must beat faster too.
- Second, the temperature, wind, snowfall, and ice in the summit region can be dangerous for those who are caught outside without the proper clothing because it leads to hypothermia, which can be life-threatening.

For health and safety reasons, hiking in areas that are not visible to rangers and first responders is not advisable. For this reason, UH does not advocate the establishment of any new public trails within the MKSR. Instead, UH will continue to consult with DLNR regarding the establishment of trails at lower elevations on NAR or Forest Reserve land and will make areas under UH jurisdiction needed to support or complement such trails available for trail purposes as requested.

Notwithstanding its desire to minimize the amount of hiking across the high-elevation lands within the MKSR, UH recognizes that hiking on some routes is so well established that it will continue and be made consistent with HAR Chapter 20-26 to avoid conflict. The trail to the summit of Maunakea from Astronomy Site 9 (Hōkū Keʻa) will be considered for improvement. Accessing the highest point in the Pacific will continue to lure visitors, and some cultural practitioners also access the summit. It is a short trail, and people are always visible to the rangers and other first responders on the road provided they remain on the trail. The adverse impacts associated with trail use are related to erosion, trail widening, trail realignment, and wandering off the trail. To reduce erosion and more clearly delineate the trail, UH will consider hardening the trail. The most appropriate techniques and materials to carry out this concept will be informed by working with Native Hawaiians that have ties to the Kaʻōhe Ahupuaʻa.

In addition to the work described above for the summit trail, UH will continue to maintain the road access and parking needed by users of the two trails that lead from the Mauna Kea Access Road to Lake Waiau, in consultation with DLNR to remain consistent with DLNR’s management efforts within the NAR.

**EDUCATION, RESEARCH, AND ASTRONOMY FACILITIES**

This section addresses facilities and projects related to education, research, and astronomy facilities within the MKSR. As discussed in Part 1, astronomy has been the driving force behind UH’s involvement with Maunakea, and UH anticipates that this will continue to be the case. In addition to astronomy, UH is focused on diversifying the education and research opportunities on Maunakea. As stated at the beginning of this chapter, UH is also committed to retaining the wilderness characteristics of the MKSR. The MKSR is a natural laboratory and learning space;
#063

Posted by CP on 10/26/2021 at 9:54pm [Comment ID: 539]
Type: Suggestion
Agree: 0, Disagree: 0
yes

#064

Posted by Sylvia Dahlby on 09/19/2021 at 3:23pm [Comment ID: 65]
Agree: 0, Disagree: 0
Whatever rules, regulations and environmental protections are applied to activities on the Mauna such as hunting, gathering, recreation and traditional and customary practices in the Comprehensive Management Plan MUST be applied equally to all people. We cannot have one set of rules for visitors vs residents, one group religious or cultural practitioners over another. Everyone must be treated equally under the law; and the law must be enforced equally.

#065

Posted by James A. Monk on 09/24/2021 at 8:29pm [Comment ID: 75]
Type: Suggestion
Agree: 0, Disagree: 0
I doubt seriously the Native Hawaiians who have obstructed progress know anything about building techniques for trails and the appropriate materials to be used. This sentence needs to be changed to reflect that you will consult with the Native Hawaiians about the location and direction of the trail only.

#066

Posted by anonymous on 10/26/2021 at 9:27am [Comment ID: 419]
Agree: 0, Disagree: 0
This is prioritizing education on astronomy instead of the cultural significance of the Mauna. Many voices have said that we want less facilities on the Mauna. It is good that classrooms and support facilities will not be established on the Mauna but there is this underlying tone where astronomy still gets to always be the exception. We do not consent to it being the rule or the exception.
Halepōhaku is the classroom and support facility. Most research within the MKSR will not require large instruments or structures; astronomy is the exception, not the rule.

In this section, we first discuss facilities and developments associated with non-astronomy education and research (Section 4.3.1), then we focus on astronomy sites and facilities.

### 4.3.1 DIVERSE EDUCATION AND RESEARCH FACILITIES AND DEVELOPMENTS

As with astronomy, which has always sought to keep its facilities within the MKSR compact and used Halepōhaku and headquarters facilities in Hilo and Waimea to support astronomy facility operations, other education and research pursuits will also restrict their footprint within the MKSR. For instance, classrooms and meeting rooms will not be built within the MKSR, the facilities at Halepōhaku, UH Hilo, and elsewhere will provide those functions.

Researchers occasionally propose data gathering efforts in the MKSR that involve equipment and facilities occurring on the landscape for a period of time. Maunakea’s unusual resources, including its elevation, location, and access, provide unique research and data gathering opportunities. Proposals can be expected from UH staff, students, and/or researchers from other institutions and they would be funded by those proposing them (some of which may receive grants from CMS). UH will carefully consider data gathering proposals and only permit those that require Maunakea’s unusual assets to proceed within the UH Maunakea Lands, consistent with the UH Maunakea Rules.

Some data-gathering programs do not constitute land uses (as the term is used in this Master Plan) because they do not involve the alteration of the land or the erection of solid material that remains for more than 30 days. Similarly, activities such as archaeological research, arthropod monitoring, and geologic mapping do not constitute land uses. Examples of data gathering efforts that may qualify as land uses include the installation and long-term operation and maintenance of such things as ground level and subterranean condition monitoring stations, seismometers, geodetic monitoring stations, song meters, and air quality monitoring stations.

Data gathering land uses would be sited as necessary to support the research goals of individual programs. Achieving those goals may require measurements at different elevations, data from various sides of Maunakea, or the collection of information from locations similar to other locations around the world where the same sorts of data are being gathered. UH will evaluate siting alternatives to ensure that data gathering activities, facilities, and equipment avoid and/or minimize potential impacts by, for example:

- Considering previously disturbed areas, including active and decommissioned astronomy sites, when program research goals do not require undisturbed areas.
- Siting equipment outside of buffers established in consultation with SHPD around archaeology sites (Figure 4-2).
- Considering visual impacts.

Actual site selection criteria will be proposal-specific, based on type and longevity of use, and other factors. They will be established via the appropriate proposal review process (see Part 3).
This sentence makes no sense yet. It needs additional words such as "... conditions monitoring devices" -- two new words added to specify what is being installed.
A proposed data gathering use will not be approved if it cannot avoid and/or minimize impacts to the extent deemed appropriate by UH and DLNR.

### 3.2 ASTRONOMY DECOMMISSIONINGS

This Master Plan calls for there to be no more than nine (9) astronomy sites with operational astronomy facilities in the MKSR by the end of 2033 (Section 4.1.2). This section outlines the process by which UH will accomplish this commitment.

#### 4.3.2.1 Ongoing Decommissioning of Two Astronomy Sites

As summarized below, the sponsors of the CSO (Astronomy Site 10) and Hōkū Keʻa (Astronomy Site 9) have each already submitted a decommissioning Notice of Intent (NOI), MKMB and DLNR have approved their NOIs, and they are fully engaged in the decommissioning process laid out in the CMP. They have also both issued Draft Environmental Assessments detailing their proposed decommissioning efforts and associated impacts (Caltech 2021, UH Hilo 2021). The decommissioning of these two facilities partially fulfills CDUP HA-3568 Special Condition #10, which states “The University will decommission three telescopes permanently, as soon as reasonably possible.”

UH has decided that these two sites will not be available for future astronomy use, including recycling. As discussed in Section 4.2 of this Master Plan, some non-astronomical use of portions of Astronomy Site 9 may be considered during or after the decommissioning process.

#### 4.3.2.2 Upcoming Decommissioning of Three Astronomy Sites

Which astronomy facilities and sites will continue beyond 2033 and which shall be decommissioned will be established via the process outlined in Appendix D. It is known that VLBA, on Astronomy Site 14, will be decommissioned prior to the end of 2033. Two additional facilities will not be selected for continued operation via the process outlined in Appendix D. The two facilities are expected to be identified by the end of 2025, allowing seven years for them to completely decommission prior to the end of 2033.

UH has decided that the three sites once occupied by these three decommissioned astronomy facilities will not be available for future astronomy use, including recycling. However, as discussed in Section 4.2 of this Master Plan, some non-astronomical use of portions of decommissioned astronomy site may be considered during or after the decommissioning process. In addition, as described in Section 4.3.4.3 and shown in Figure 4-4, a portion of Astronomy Sites 7 and/or 8 may continue to be utilized for astronomy in the event that one of those sites is decommissioned and the other is recycled.

#### 4.3.3 CONTINUED OPERATION, MODIFYING, AND/OR RECYCLING ASTRONOMY SITES AND FACILITIES

##### 4.3.3.1 Continued Operation of Existing Facilities

Over the 20-year period of this Master Plan most astronomy facilities not decommissioned will likely continue to operate in their current general configuration. Internal alterations (e.g., installing new instrumentation, replacing mechanical and electronic equipment, etc.) are likely to be made
#068

Posted by **kimberly nichols** on **09/23/2021** at **3:19pm** [Comment ID: 73]

Type: Suggestion

Agree: 0, Disagree: 0

"As soon as reasonably possible"? Decommissioning and removal should be completed before discussion of new build begins.

#069

Posted by **Lehuakona** on **10/25/2021** at **9:32pm** [Comment ID: 370]

Type: Suggestion

Agree: 0, Disagree: 0

As stated before, it is unwise to make final decisions on the sites. Future conditions and forces could vary greatly from what is foreseen today.

#070

Posted by **anonymous** on **10/26/2021** at **9:29am** [Comment ID: 420]

Agree: 0, Disagree: 0

The NSF have said that UH did not even consult them when deciding which telescopes to decommission. How do we know that these decommissioning promises will be held up? The communication between the partners seems thin and ripe for friction and changing of plans.
in virtually all of these at the discretion of the facility owner and operator. Work needed to maintain the exterior of the facilities (e.g., resurfacing the dome or parking areas) and minor alterations that affect the exterior of the facility may also occur. External maintenance and alteration projects will need to follow the project review process described in Part 3 of this Master Plan. Examples of possible alterations may include such things as the attachment of equipment such as cameras, weather equipment, or adaptive optics equipment to the exterior of a dome to aid observing or attaching photovoltaic (PV) panels to the roof of support buildings.

### 4.3.3.2 Potential Modification and Recycling Projects

As used in this Master Plan:

- **“Modification”** of an astronomy facility entails changes to an existing facility that are made in order to modernize or improve its capabilities that go beyond the alterations discussed in Section 4.3.3.1. Examples of possible modifications include enlarging or reconfiguring a dome to accommodate a larger telescope or constructing additional building space to accommodate more equipment or support infrastructure.

- **“Recycling”** an astronomy site involves the complete removal of an existing astronomy facility and the construction of a new astronomy facility in its place. Recycling is consistent with preserving nine operating astronomy facilities at any one time and keeping facilities on existing, previously disturbed sites.

Modification and/or recycling will be considered only at sites not decommissioned per the commitments outlined in Sections 4.1.2 and 4.3.2. Other than the possible adjustment to Astronomy Site 7 and Astronomy Site 8 boundaries outlined in Section 4.3.4.3 (which would result in a site roughly equivalent in size to the average of the two), modification and recycling projects will not involve a change in the size or boundaries of the astronomy sites.

UH’s assessment of the likelihood that facilities at each of the astronomy sites will be modified or recycled over the life of this plan is summarized in Table 4-2. As indicated in Table 4-2, the only presently known potential modification or recycling project in the MKSR is the modifications to CFHT (Astronomy Site 5) that is under discussion to accommodate the Maunakea Spectroscopic Explorer (MSE) project. If implemented, the MSE project, which has not yet been evaluated or approved by UH, would transform the CFHT 3.6-meter telescope into a 10-meter class dedicated multi-object spectroscopic facility with an ability to simultaneously observe more than four thousand objects. It is not yet known if the MSE project will be officially proposed to UH. If it is, it will most likely be considered a modification project because, as envisioned now, it would retain the existing CFHT foundation and base structure.

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26 PV panels have been added to the Keck and Gemini support buildings. Other astronomy facility operators are also likely to add them to support buildings in the coming years.
I am speaking on behalf of the Aloha ʻĀina Bureau of HULI Corporation, a non-profit social welfare non-governmental organization. We question section 4.3.3.2 Potential Modification and Recycling Projects. This appears to allow any astronomy facility to implement construction such as modifications to accommodate a larger telescope. We oppose any further construction on Mauna Kea. We suggest that you disallow any modifications or recycling projects to any existing astronomy facility.

Remove the word "the" which is superfluous here.
Table 4-2: Probability of Modification or Recycling by Astronomy Site

<table>
<thead>
<tr>
<th>Astronomy Site (acres)</th>
<th>Modification and Recycling Probability</th>
<th>Discussion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 1: Subaru (5.36)</td>
<td>Highly unlikely</td>
<td>Japan sets funding of the facility in 10-year increments and does not show any signs of shifting priorities away from Subaru, its principal astronomy asset. Subaru is likely to complement the MSE project, which will add to its long-term utility if the MSE project becomes a reality.</td>
</tr>
<tr>
<td>Sites 2 and 3: Keck I &amp; II (1.48 &amp; 1.97)</td>
<td>Highly unlikely</td>
<td>Keck is the single most impactful astronomy facility in the world. Investments in instrumentation and interferometry by Keck will enable it to continue its leadership.</td>
</tr>
<tr>
<td>Site 4: IRTF (1.62)</td>
<td>Slight</td>
<td>The IRTF provides critical support for NASA’s exploration of the Solar System. There is no evidence that NASA’s priorities will change in a way that would substantially reduce the need for IRTF. However, this astronomy site is one of the few that hosts a relatively small telescope (4-meter class) and is of sufficient area and remoteness from other facilities that it could be recycled with a larger facility (10-meter class, perhaps a facility similar to the Vera C. Rubin Observatory facility in Chile).</td>
</tr>
<tr>
<td>Site 5: CFHT (1.87)</td>
<td>Moderate</td>
<td>CFHT has been working on the MSE concept for a decade and continues to pursue partners to make that a reality; therefore, it has the highest probability of modification or recycling.</td>
</tr>
<tr>
<td>Site 6: Gemini North (1.96)</td>
<td>Highly unlikely</td>
<td>The AURA manages this facility in concert with the Gemini South facility in Chile. Continued investment by NSF and other Gemini partners is anticipated, as well as technology sharing among the two Gemini telescopes and other NSF-supported facilities.</td>
</tr>
<tr>
<td>Site 7: UH 2.2m (88&quot;) (1.94)</td>
<td>Moderate</td>
<td>UH considered this site for recycling when the Pan-STARRS project was being planned. The size and geometry of the site and its proximity to Gemini North and other resources mean that this site is unlikely to be recycled to host a facility substantially larger than the existing structure. See Section 4.3.4.3 regarding possible recycling once site boundary is altered.</td>
</tr>
<tr>
<td>Site 8: UKIRT (0.77)</td>
<td>Slight to moderate</td>
<td>UKIRT has been one of the most impactful facilities in recent years due to its wide-field camera and ability to engage in time-domain astronomy. As its efforts with the wide-field camera wind down over the next decade, the likelihood of modification or recycling may increase. The size of the site and proximity to other resources suggest that its recycling would not yield a facility substantially larger than the existing one. See Section 4.3.4.3 regarding possible recycling once site boundary is altered.</td>
</tr>
<tr>
<td>Site 9: Hōkū Ke’a (0.53)</td>
<td>None</td>
<td>This facility will be decommissioned, and the site will not be available for future astronomy use.</td>
</tr>
<tr>
<td>Site 10: CSO (0.74)</td>
<td>None</td>
<td>This facility will be decommissioned, and the site will not be available for future astronomy use.</td>
</tr>
<tr>
<td>Site 11 – JCMT (2.91)</td>
<td>Highly unlikely</td>
<td>JCMT continues to be very impactful and is part of the Event Horizon Telescope, which is a long-baseline submillimeter interferometer. Maunakea will continue to play an important role in such efforts due to its latitude. However, it is unlikely that modification or recycling will occur due to the large and ongoing investment in submillimeter facilities in the southern hemisphere. Located in “submillimeter valley,” this site is not attractive for recycling to an optical or infrared facility.</td>
</tr>
<tr>
<td>Site 12 – SMA (2.82)</td>
<td>Highly unlikely</td>
<td>Factors discussed above related to JCMT apply to the SMA as well, and the Smithsonian has not indicated any change in priorities or funding.</td>
</tr>
</tbody>
</table>
There should be a total cap for height and footprint - not just saying 9 sites but also placing limits on the size and height - individually and/or collectively - or at least this should be an ongoing discussion point with cultural and environmental leaders working directly with designers/astronomers - all having equal power at the table- with tendency to lean towards the cultural leader when there is no consensus on compromise.

amazing work from Subaru, Keck, JCMT. Continued excellence

The decommissioning/recycling of telescopes should focus on removing the infrastructures off of Maunakea, rather than increasing their size.
### Modification and Recycling Probability

<table>
<thead>
<tr>
<th>Astronomy Site (acres)</th>
<th>Modification and Recycling Probability</th>
<th>Discussion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 13 – TMT (6.00)</td>
<td>Extremely unlikely</td>
<td>The TMT has a CDUP to build on this site during the term of this Master Plan. If constructed, it will have an operating life of at least 50 years.</td>
</tr>
<tr>
<td>Site 14 – VLBA (2.01)</td>
<td>None</td>
<td>This facility will be decommissioned, and the site will not be available for future astronomy use.</td>
</tr>
</tbody>
</table>

Source: UH and the MKOs

Although the current MSE project concept involves the facility at Astronomy Site 5 (CFHT) becoming slightly taller (no change to building footprint at ground level), it is not a foregone conclusion that all modification or recycling projects will result in larger facilities. Instead, technological advances could result in larger aperture telescopes being developed on astronomy sites in ways that require minimal disturbance and result in minimal height and size increases, or even allow existing facilities to be replaced with smaller ones. Moreover, not all astronomical research requires large-aperture telescopes. There will always be demand for 2- and 4-meter class telescopes, and it is possible that an astronomy site that presently has a 2- or 4-meter class telescope could be modified or recycled with a similar size facility that takes advantage of the many technical advances that have occurred since the mid-1980s when telescopes of this size were last installed in the MKSR. Such recycling could substantially increase the scientific power of a site without increasing (and potentially decreasing) the footprint, bulk, and impacts of the facilities that are present.

#### 4.3.4 Other Potential Astronomy-Related Projects

##### 4.3.4.1 Optical Hawaiian Array for Nanoradian Astronomy (OHANA) Project

The astronomy facilities on Maunakea are experimenting with the use of fiber optics for two different purposes.

- The first is to transmit the visible light or infrared radiation collected while observing a celestial object at one facility to another facility so that instruments in the other facility can analyze the radiation (the GRACES project).\(^{27}\)

- The second is to combine the light from up to seven existing telescopes, the so-called Optical Hawaiian Array for Nanoradian Astronomy (OHANA) project. The OHANA project would interconnect some or all the optical/IR facilities on Maunakea (Subaru, Keck, IRTF, CFHT, Gemini, UH2.2m, and UKIRT) to create an interferometer capable of providing ultra-high-resolution images of the near-infrared universe. The image that could be produced by the linked facilities would be up to 80 times sharper than the image from one of the 10-meter Keck telescopes. The OHANA project is challenging and if it moves forward, it will probably be implemented in phases and take decades to implement fully. However, this

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\(^{27}\) The ongoing Gemini Remote Access to CFHT ESPaDOnS Spectrograph (GRACES) project is the result of a cooperation between the Canada-France-Hawaii Telescope (CFHT), Gemini, and NRC-Herzberg (Canada). It combines the large collecting area of the Gemini North telescope with the high resolving power and high efficiency of the ESPaDOnS spectrograph at CFHT to deliver high resolution spectroscopy across the optical region.
do not use OHANA for this project name

TMT should be removed from the Master Plan. It does not have the support of the Hawaiian Community and the People of Hawaii. This counteract the purpose for this proposal.

TMT should be removed from the Master Plan. It does not have the support of the Hawaiian community and the people of Hawaii and counteracts the purpose of this proposal.

50 years is a dubious claim. This was Subaru's original plan, but they have consistently funneled funds to other projects, allowing Subaru to rely on other investors well before their halfway mark. Since Japan is a major investor, it is likely they will act in a similar manner in the future: investing their resources in the latest big project.

Construction has not started and it was supposed to by September of 2021 to remain valid. This construction permit is invalid.
Agree: 0, Disagree: 0
and take this "Hawaiian" out!

#082

Posted by Caitlin Cosmian on 10/23/2021 at 11:43pm [Comment ID: 257]
Type: Suggestion
Agree: 0, Disagree: 0
I am a resident of O’ahu, the fourth generation in my family to live here. I strongly oppose the construction of the TMT on Mauna Kea, and believe Kanaka Maoli kia’i should be in charge of decision making about land use on the Mauna.

#083

Posted by James Schwartz on 09/16/2021 at 8:46am [Comment ID: 57]
Agree: 1, Disagree: 0
When will the TMT begin construction?

#084

Posted by Gerald F Kalisik on 10/10/2021 at 4:49pm [Comment ID: 154]
Agree: 0, Disagree: 0
It is important that the TMT be built in order to facilitate astronomical and scientific research. The TMT will also facilitate educational and job opportunities for local people.
A highly collaborative undertaking would greatly expand the capability and utility of the existing facilities.

The OHANA project would require fiber optic cables between the facilities and a large laboratory space for the “delay line” that is an essential component of interferometers. Sufficient laboratory space for the project is already available within one of the existing facilities. Converting the area within the facility for this use might require some internal modifications, but it is unlikely to require modifications that would change the exterior of the facility. However, interconnecting the facilities would involve the installation and maintenance of underground cables. These cables would likely follow the alignments of other utilities (electrical and communication) that already run between the astronomy sites. Implementing OHANA might require the installation of additional underground conduit along those routes between the astronomy sites. Because they are common infrastructure improvements comparable to existing roadways, electrical power feeds, and communication lines, the conduits and cables would not be required to comply with Master Plan guidelines regarding the confinement of astronomy improvements to astronomy sites. The OHANA project, or similar connections between the astronomy sites, would likely be developed in phases as the concept is proven and resources become available.

4.3.4.2 Joint Development of Astronomy Sites

Astronomy Sites 2 and 3 (which contain the W. M. Keck Observatory) were developed jointly by a consortium consisting of the University of California and the California Institute of Technology (Caltech) between 1984 and 1996. These two astronomy sites lent themselves to joint development as they are contiguous, share a long border, and the ground is relatively level across the two sites. Should Astronomy Sites 2 and 3 be recycled in the future (which is considered highly unlikely, Table 4-2), they could be jointly developed again.

While IfA considers it unlikely that other astronomy sites will be jointly developed, but the possibility cannot be completely dismissed. Astronomy Sites 5, 6, 7, and 8 are contiguous, and it is conceivable that two of them (e.g., 6/7 or 7/8) could be jointly developed. While their different elevations and geometry make that challenging, it is conceivable that new technology, materials, and/or design concepts may create an opportunity for this over the term of this Master Plan, and such a joining would be consistent with the intent of this plan.

4.3.4.3 Potential Combination and Boundary Amendment of Astronomy Sites 7 and 8

A more likely alternative to joint development is combining and amending the administrative boundary of Astronomy Sites 7 and 8 so that a single new state-of-the-art astronomy facility could be developed on a portion of the area where two facilities (UH 2.2 and UKIRT) currently exist. This would make it possible to: (i) address proximity issues with Astronomy Site 6 (Gemini), (ii) mitigate erosion risks at Astronomy Site 8, and (iii) maintain an astronomy site of sufficient size for recycling. Each of these items is discussed below:

- **Proximity issues** are created when one astronomy facility dome creates air turbulence that adversely affects astronomical seeing conditions at a nearby facility. Currently, the UH 2.2 dome on Site 7 is roughly 300 feet from the Gemini dome on Site 6 (measured from the center of one dome to the center of the other). Ideally, the two domes would be separated by 500 feet to minimize the potential for proximity issues.
#085

Posted by James A. Monk on 09/24/2021 at 8:49pm [Comment ID: 78]
Type: Typo
Agree: 0, Disagree: 0
Remove the word "but". Not needed.

#086

Posted by mcpeekm on 10/04/2021 at 12:13pm [Comment ID: 87]
Type: Suggestion
Agree: 0, Disagree: 0
Hardening the trail is not advisable. To close off the the trails to tourist and allowing cultural sciences and practices to occur. This would again, further modify the land. That of which has already been greatly affected the landscape of the land itself. The human pretense of western practices have already affected the ecology negatively.

#087

Posted by anonymous on 10/26/2021 at 9:34am [Comment ID: 422]
Agree: 0, Disagree: 0
Does this not have any oversight? I believe that any changes on the Mauna should go through the same process. There needs to be more information about the underground conduits and their installation in the ground. Especially with where they are and how it will affect the landscape and the spacing in between the telescopes.

#088

Posted by Steven Urrutia on 10/26/2021 at 10:17pm [Comment ID: 546]
Type: Suggestion
Agree: 0, Disagree: 0
The proposed Ohana project largely neglects UH leaders commitment to strategy 1.5.1: "Involve the community in decision-making process early and often through the CMS volunteer advisory groups". There is no notice of conversations between stakeholders and community leaders to ensure this proposal of project is a product of notable community decision-making practices. Not only is it negligent, but it reflects the institutions manipulative practices in misleading narratives about diverse dialogues between community members.
- **Erosion issues** at Astronomy Site 8 (UKIRT) are related to the proximity of the road located to the northwest and at a lower elevation than the facility. Grouted rubble pavement (GRP) has been installed on the slope in this area to address the erosion. Additional measures may be needed to address the erosion if Astronomy Site 8 (UKIRT) continues to be utilized.

- **Astronomy Site sizes** on the subject ridge (Astronomy Sites 5, 6, 7, and 8) range from 0.77 acres (UKIRT on Site 8) to 1.96 acres (Gemini on Site 6). A site of roughly 1.5 acres is considered the minimum necessary to support a modern optical/IR facility that would most likely be developed through the recycling of a site on this ridge, and closer to 2.0 acres would be preferable.

Figure 4-4 illustrates the amendment of the Astronomy Site 7 and 8 boundaries that would allow this; the resulting site would be referred to as Astronomy Site 7.5. A reconfiguration along this line would address each of the points above by allowing the development of a new facility with a dome that is roughly 500 feet from the Gemini dome that is setback from the erosion problems and has a size of roughly 1.5 acres. The total area of the site that is delineated in Figure 4-4 for site 7.5 is roughly 1.34 acres, which is equal to the average size of existing Sites 7 and 8, substantially less than the combined areas (2.7 acres) of Sites 7 and 8, and is completely within areas that are already permitted for astronomy facilities.

This amendment of Astronomy Site 7 and 8 boundaries would only occur if: (i) one, but not both, of Astronomy Sites 7 and 8 were to be decommissioned; and (ii) the Astronomy Site that does continue is recycled. It is possible that both required events could occur during the 20-year term of this Master Plan. If it does come to pass, it would result in the continuation of one astronomy site where there are now two. The design guidelines (Part 3 of this Master Plan) that are considered in relation to the existing facility on the subject astronomy site (i.e., dome height) would be calculated on the basis of the UH 2.2 facility currently on Astronomy Site 7.

### 4.3.4.4 Multiple Small Telescopes on One Astronomy Site

All astronomy sites on Maunakea currently host a single telescope.²⁸ It is becoming more common for modern astronomy facilities to have multiple similar-sized telescopes in a single dome (e.g., the original PanSTARRS concept). As astronomy sites on Maunakea are recycled, it is possible that future facilities may host multiple telescopes of similar aperture. If such changes are made these will continue to be treated as a single astronomy facility.

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²⁸ Astronomy Site 12 (SMA), is a single interferometer telescope comprised of multiple antennas. Most of the existing facilities have secondary telescope(s) that are used for spotting and other purposes. The secondary telescopes are typically much smaller than the primary telescope and, in some cases, are mounted on the exterior of the dome.
Questionable if you think about the smithsonian very large array satellites
Figure 4-4: Potential Amendment of Astronomy Site 7 and 8 Boundaries

Source: PSI
see earlier comment regarding a system for total footprint and height cap on individual sites as well as for the entire area. This is a doubling of developed concrete area. Concrete impacts environment, runoff, erosion, water quality.
5 ROADWAYS, UTILITIES, AND MANAGED ACCESS

The discussion in this chapter addresses only those roadways, utilities, and managed access facilities located outside astronomy sites and the previously disturbed portions of Halepōhaku. Roadways, utilities, and managed access facilities are discussed separately from the uses specific to Halepōhaku (which are discussed in Chapter 3) and the MKSR (which are discussed in Chapter 4) because they cross boundaries and are independent from, but provide interconnections between, those areas and their land uses.

5.1 ROADWAYS

At one time, the Hawai‘i Department of Transportation (HDOT) anticipated making improvements to the 4.7-mile-long portion of the Maunakea Access Road above Halepōhaku that remains unpaved. However, that paving project is no longer in the HDOT’s budget. Hence, this segment of the Mauna Kea Access Road will continue to require frequent maintenance, and the use of two-wheel-drive vehicles north of/above Halepōhaku will continue to be prohibited, consistent with HAR § 20-26-28.

Should the existing and approved roads be damaged by natural process (e.g., erosion, earthquake) to the point that they cannot reasonably be restored in their current location, they will be replaced with infrastructure of similar capacity nearby.

Maunakea Observatories Support Services (MKSS) has identified the following potential access road projects (see Figure 5-1) and is presently evaluating them.

1. Project 1. Paving a roughly 0.5-mile-long segment at the upper end of the currently unpaved portion of the Mauna Kea Access Road. This work has been recommended because the segment has historically required much more frequent grading and other maintenance than have other unpaved road segments.

2. Project 2. Improving and paving the roughly 0.5-mile unpaved portion of the Mauna Kea Access Loop Road from Astronomy Site 12 (SMA) past Astronomy Site 1 (Subaru) to Astronomy Site 3 (Keck II). This would eliminate roadway-related dust, reduce the effort required to maintain the roadway, and make it easier to clear snow. In addition to paving, retaining walls could be modified and the travelway widened in the vicinity of Astronomy Site 3 (Keck II).
If the case of erosion is caused by natural occurrences. All operations will cease.
Figure 5-1: Potential Road Project Locations

Source: PSI
3. **Project 3.** Improving or retiring the older, southern, switchback portion of the Mauna Kea Access Summit Area Loop Road. This portion of the Summit Area Loop Road has proven to be less stable than the more recently built, northern, currently partially unpaved, portion of the Summit Area Loop Road. The southern, switchback portion of the Loop Road has been damaged by erosion and has required more maintenance than the northern route. This does not appear to be due to age alone. Therefore, if the northern portion of the loop is fully paved (Item 2 above), the southern switchbacks may be either improved or retired.

- Improvement would consist of drainage, subsurface structural modifications, and grading modifications and would likely not noticeably change the character of the roadway. This option may be preferred because reliance on a single access route would: (i) reduce resilience in the event of damage from a natural event (e.g., storm, earthquake, etc.) or accident that resulted in the closure of a portion of the Loop Road; and (ii) eliminate the option of operating the Summit Area Loop Road as a one-way route on snow days when there are more non-astronomy vehicles in the summit area.

- Retirement would consist of removing the hardened surfaces and retaining walls and then allowing the area to naturalize without further human intervention unless permits require additional measures. This option may be preferred if conditions continue to worsen and improvements, repairs, and/or maintenance become prohibitively expensive or other factors lead UH to this approach.

4. **Project 4.** Safety improvements as deemed appropriate throughout the extent of the road network; improvements such as additional guardrails, pullouts, and runaway truck ramps will be considered.

If the results of its evaluation studies indicate that they are cost-effective, UH will seek funding and project-level approvals for the projects listed above and other roadway needs as they become apparent.

### 5.2 UTILITIES

No expansion of or major modifications to utility infrastructure beyond that already approved is foreseen. Electrical, telecommunication, and related equipment and facilities will, however, require periodic maintenance and/or replacement to ensure that they remain fully functional and able to meet the changing needs of the facilities.

Should a non-UH entity propose and be authorized to install and operate new facilities or equipment that requires utility connections, it will be the responsibility of the project proponents to obtain approval for and install the necessary utility connections. UH will work with the project proponents and with the utility providers to provide the necessary services. This Master Plan does not address the siting, design, or other aspects of such utility extensions, if needed. These issues will be addressed through the project review process described in Part 3 of this Master Plan.

#### 5.2.1 Electrical Power

The approved electrical power supply facilities to the UH Maunakea Lands, including Halepōhaku and the upper slopes of Maunakea, are adequate to serve existing, approved, and all foreseeable...
If there are other reasons (due to development) that the road is less stable and there is the option of closing the road -- then the road should be closed. This is again another example of taking care of the Mauna that should be prioritized. The repairs being too expensive should not be the main reason why this road would be restored to the natural land. Take out the threats of developmental erosion and prioritize the caring of the Mauna.
loads and demands over the life of this Master Plan. No expansion of the power transmission and distribution system is likely to occur over the 20-year period of this Master Plan, except those required to serve new land uses that are approved in areas outside the astronomy sites, if any. Small data gathering land uses will likely not require electric power connections because they will be encouraged to run on batteries, PV panels, and/or other off-the-grid methods. Bathrooms and other facilities may require a power connection if their demand cannot be met by solar panels and batteries.

Individual astronomy sites may add PV panels to their rooftops, as Keck and Gemini did in early 2020, to produce electricity. Where PV panels are installed, they will reduce the amount of electrical power each facility draws from the Island’s electrical grid, and that must pass through the transmission and distribution facilities on Maunakea. However, because the output of these panels will be a small fraction of the amount of power required, they will not dramatically reduce the amount of electrical power that will be needed from the HECO system.

Ongoing maintenance of the existing electrical power system will continue throughout the UH Maunakea Lands during the term of this Master Plan. Maintenance is likely to include activities such as transformer, switchgear, relay, and conductor replacement as part of regularly scheduled maintenance or to replace failed equipment. Maintenance may include the replacement of sections of underground conduit and cable should they be damaged, become exposed, or fail. When replacement is necessary, it may result in minor changes to the equipment to comply with the then-current electrical code requirements.

5.2.2 **COMMUNICATION AND DATA**

MKSS and the astronomy facilities have confirmed that the existing fiber-optic lines that provide communication and data service to the UH Maunakea Lands are adequate to serve existing, planned, and foreseeable loads and demands at their facilities over the life of this Master Plan. New facilities, most likely data gathering projects beyond the astronomy sites, may require connections to the fiber-optic lines to provide real-time communications, remote operation, and data downloads. Efforts will be made to avoid the need for new hard-wire connections; however, if new connections are required, cabling will be placed underground in previously disturbed areas to the extent feasible.

The existing communication and data transmission facilities will continue to be maintained at a high level during the term of this Master Plan. Existing telecommunications equipment such as switches and routers will be replaced and upgraded as needed to ensure its continued reliability and to improve the data transfer rate along the existing fiber-optic system. These upgrades will support the continued trend toward remote-viewing, remote-operation, and increased data-production by new telescope instrumentation. It is possible that some of this maintenance may result in small changes to the system to comply with ever-evolving electrical codes and standards. UH anticipates that the vast majority (and quite likely all) of these will involve internal equipment.

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29 The upgrade of the existing electrical power supply that has been approved as part of the TMT Project (CDUP HA-3568) is considered part of the “approved” electrical power system.
It might be worth strengthening the security around the fiber-optics lines to avoid damage (e.g., the cables that were damaged during the previous astronomy protests).

This should not even be entertained as an idea. All future projects that could or could not occur are not admissible.
changes that will not affect the external appearance of the system or require substantial construction work.

Related to communications and data, the OHANA project (described in Section 4.3.4.1) would involve the installation of fiber-optic cables between the optical/IR astronomy facilities. The OHANA fiber-optic cables would be placed within previously disturbed alignments, such as existing roadways or existing utility corridors. Furthermore, should the OHANA project advance, UH may take the opportunity to replace, maintain, or improve other utility infrastructure (e.g., electric, communication, and data) that is aging and, in a few locations, being exposed by erosion, in conjunction with that work in order to minimize ground disturbance.

5.2.3 **WATER SUPPLY**

Over the term of this Master Plan, potable water will continue to be provided as it is today; trucking water obtained from municipal sources in Hilo to Halepōhaku and the astronomy sites as necessary to satisfy demand.

The continued trend toward remote viewing and operation along with the decommissioning of certain astronomy sites has reduced, and is likely to reduce even further, the use of water in the MKSR. Because remote-viewing and increased automation have reduced the number of people staying at Halepōhaku, water use is substantially lower than when the facility was fully utilized by the astronomy community. The level of water use at Halepōhaku in the future will depend largely on how access is managed in the future and the extent to which educational and other uses become established and draw users. However, most of the alternatives that are being considered would leave water use there below historical levels, and none would increase demand beyond that which could be readily satisfied by continuing to truck in water as needed to resupply the existing storage tanks.

All water supply facilities will be maintained regularly over the term of this Master Plan. As with all systems, tanks and piping may need to be refurbished and/or replaced over time. When replaced, minor changes may be necessary to comply with then-current codes and to facilitate the use of products that are available at the time the work is done.

5.2.4 **WASTEWATER MANAGEMENT**

There is no centralized wastewater collection system in the UH Maunakea Lands, and there is no plan to develop one over the term of this Master Plan. Accordingly, wastewater will continue to be handled as described below.

**MKSR.** Wastewater generated at each of the astronomy sites will be managed by each facility through permitted individual wastewater treatment systems. Those facilities that continue operation beyond 2033 will be required to properly abandon their existing wastewater treatment system and replace it with a zero-discharge wastewater system.

**Halepōhaku.** All wastewater will either be routed to other permitted wastewater treatment systems or new septic tanks with leach fields or an alternative method permissible by applicable regulations.
This was mentioned before in previous plans and never was established.
5.3 FACILITIES TO MANAGE ACCESS

It is UH’s policy to manage access to its Maunakea Lands in a manner that balances public access with UH’s obligation to: (i) protect and conserve the cultural landscape, natural resources, and astronomical viewing conditions; (ii) responsibly manage activities to minimize potential adverse effects on the landscape and resources; and (iii) protect public health and safety. The CMP and the UH Maunakea Rules are consistent with and reflect this policy. The CMP, building on prior plans that addressed access, provides guidance and identifies many access management methods. Since then, the UH Maunakea Rules were adopted; they provide authority for UH to implement many CMP provisions related to access management, including, but not limited to, the following:

- Requiring that persons entering the UH Management Area have completed an orientation regarding cultural and natural resources, safety matters, and other relevant information (HAR § 20-26-5).
- Charging fees for entrance and parking (HAR § 20-26-6).
- Installing a gate or other access control structure to manage vehicular access to portions of the UH Management Area (HAR § 20-26-38(a)).
- Closing or limiting access to all or portions of the UH Management Area, when needed to protect the public from hazardous conditions (HAR § 20-26-38(b)(1)).
- Managing access by private vehicles “...for public safety and welfare, for the protection of resources, and to reduce congestion” (HAR § 20-26-38(b)(2)).
- Mandating public access by shuttle vehicles in lieu of private vehicles (HAR § 20-26-38(b)(2)).
- Establishing public access hours for the UH Management Area, provided that hunting shall be allowed pursuant to the DLNR’s hunting rules (HAR § 20-26-38(c)).

As discussed below, UH is moving forward on multiple fronts to exercise the powers that the adoption of HAR Chapter 20-26 recently granted. Two conceptual phases of managed access are envisioned at this time. The first is described in Section 5.3.1 and UH’s goal is to have it in place by the end of 2022. The second, which would likely involve the establishment of a shuttle system, is discussed in Section 5.3.2. UH will continue to gather input on its proposed managed access procedures and facilities, adjust them as necessary, and then seek the necessary approvals prior to their implementation. Input will be sought via the review of this Master Plan, community engagement via CMS advisory boards and committees, and other community outreach efforts.

5.3.1 CONCEPTUAL INITIAL PHASE ACCESS MANAGEMENT FACILITIES

As presently conceptualized, the initial phase of managing vehicular access to UH Maunakea Lands above Halepōhaku will consist of the installation and operation of the modest facilities

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30 “Hazardous conditions” are defined as including but not limited to inclement weather conditions, construction or maintenance activities on or near the roadway or at astronomy sites, transportation of wide, heavy, or otherwise hazardous loads, or roadway congestion.” The Rules further provide that notice of road closures or usage limitations must be provided through signage, roadblocks, closed gates, or other means reasonably calculated to provide public notice of the location and extent of closure.
#096

Posted by CP on 10/26/2021 at 10:14pm [Comment ID: 545]

Type: Suggestion
Agree: 0, Disagree: 0

time slots, pre-registration, etc

#097

Posted by Pua Brown on 10/25/2021 at 2:00pm [Comment ID: 314]

Type: Correction
Agree: 0, Disagree: 0

I can think of several activities that have and continue to negatively impact the cultural landscape and natural resources and the delicate ecosystems on Mauna Kea - all 21 telescopes that are currently on the Mauna! Yes, there are 21 telescopes counting the submillimeter array, which consists of 8 telescopes. You have built roads that have increased traffic to Mauna Kea. You have blasted the mountain to build these massive telescopes. There have been several fuel leaks that could undermine the underlying groundwater aquifer with no geological study of the underlying rock formations! Endemic species that still exist on Mauna Kea are being forced to extinction. The cumulative environmental impacts of these telescopes is off the charts. Your solution is restrict access? Will this restrict access for Kanaka Maoli, the rightful stewards of these lands who need to access the Mauna for religious practice? Will this restrict traditional and cultural gathering rights? Hawaii State Constitution Art. 12, § 7 Section 7: "The State reaffirms and shall protect all rights, customarily and traditionally exercised for subsistence, cultural and religious purposes and possessed by ahupua’a tenants who are descendants of native Hawaiians who inhabited the Hawaiian Islands prior to 1778, subject to the right of the State to regulate such rights."

United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) Article 10: "Indigenous peoples shall not be forcibly removed from their lands or territories."

Article 12
"1. Indigenous peoples have the right to manifest, practise, develop and teach their spiritual and religious traditions, customs and ceremonies; the right to maintain, protect, and have access in privacy to their religious and cultural sites; the right to the use and control of their ceremonial objects; and the right to the repatriation of their human remains."

#098

Posted by sam nelson on 10/24/2021 at 5:28pm [Comment ID: 266]

Type: Suggestion
Agree: 0, Disagree: 0

Why limit access. I disagree with this recommendation
 Posted by CP on 10/26/2021 at 10:13pm [Comment ID: 544]
Type: Suggestion
Agree: 0, Disagree: 0
tour businesses only

#100

Posted by dgarcia2727 on 10/26/2021 at 4:27pm [Comment ID: 489]
Type: Suggestion
Agree: 0, Disagree: 0
Limiting access to Mauna Kea will be detrimental to Native Hawaiians and cultural practitioners that need access to the Mauna. It is clear that UH is attempting to diffuse actions to defend Mauna Kea from UH's desecration. This is unacceptable and must be removed from your plan.

#101

Posted by Jonah Bobilin on 10/21/2021 at 2:18pm [Comment ID: 213]
Type: Suggestion
Agree: 0, Disagree: 0
Document does not address how the installation of a gate to control access to the UH Management Area, including the summit of Mauna Kea, will impact kānaka maoli who visit the mountain for spiritual purposes. Restricting public access to the summit of Mauna Kea for reasons outlined in this document (ecological, public safety, etc.), without negatively affecting the ability of Hawaiians to access the mountain does not seem feasible. Restricting the ability of Hawaiians to access the mountain does not seem in alignment with the stewardship intentions and goals outlined in this document. Therefore, unless UH is able to address these matters of access for spiritual and cultural purposes to the indigenous community's satisfaction I oppose the installation of any gate or access control structure.

#102

Posted by CP on 10/26/2021 at 10:12pm [Comment ID: 543]
Type: Suggestion
Agree: 0, Disagree: 0
yes

#103

Posted by Pua Brown on 10/25/2021 at 2:25pm [Comment ID: 322]
Type: Correction
Agree: 0, Disagree: 0
This is absolutely not okay and clearly meant to block Native Hawaiians from freely accessing Mauna Kea when we need to. We are the rightful stewards and protectors of
this land. You have no right to regulate and restrict our access. We internationally
recognized rights to cultural and religious freedom of worship and the perpetuation of
our culture that this would clearly violate.

#104

Posted by Pua Brown on 10/25/2021 at 2:11pm [Comment ID: 318]
Type: Correction
Agree: 0, Disagree: 0
You must not charge or restrict entrance of Native Hawaiians to access our most
sacred land. You must not charge a fee to Kanaka Oiwi who no longer live in Hawai’i
and part of the diaspora that is exacerbated US occupation.

#105

Posted by Pua Brown on 10/25/2021 at 2:13pm [Comment ID: 319]
Type: Correction
Agree: 0, Disagree: 0
Absolutely not. This is a violation of Kanaka Maoli rights to religious freedom. Native
Hawaiian access to Mauna Kea must not be restricted.

#106

Posted by HiloResident on 10/06/2021 at 2:21pm [Comment ID: 123]
Type: Suggestion
Agree: 0, Disagree: 0
Does this include all visitors?

#107

Posted by Pua Brown on 10/25/2021 at 2:15pm [Comment ID: 320]
Type: Correction
Agree: 0, Disagree: 0
There must be protection for religious practice and gathering rights. It is hard to believe
that shuttle vehicles (I hope not more tour buses) would be allowed but private vehicles
of Native Hawaiians would not be allowed.

#108

Posted by proudkanaka on 10/26/2021 at 6:43am [Comment ID: 404]
Type: Correction
Agree: 0, Disagree: 0
UH does not have the authority and should not be installing a gate to keep people out
from using resources rightfully theirs.
Posted by **sam nelson** on **10/24/2021 at 5:28pm** [Comment ID: 265]
*Type: Suggestion*
*Agree: 0, Disagree: 0*
I do not think this is a good idea- Most hawaii residents have 4WD and can access in their own vehicle

#110

Posted by **anonymous** on **10/26/2021 at 10:31am** [Comment ID: 437]
*Agree: 0, Disagree: 0*
Who is the leader on this? UH?

#111

Posted by **proudkanaka** on **10/26/2021 at 6:53am** [Comment ID: 406]
*Type: Suggestion*
*Agree: 0, Disagree: 0*
The land on Mauna Kea is ceded lands, aka stolen lands. UH does not own that land and should stop using jargon that suggests as such.
required to implement the fundamental access-related provisions of the UH Maunakea Rules (e.g., visitors must complete orientation, may park only in designated areas, may not use two-wheel-drive vehicles, etc.). In addition, during the peak visitor demand portion of the day, which has been sunset viewing, the number of certain vehicles able to proceed above Halepōhaku would be capped.

To effectively manage the number of vehicles advancing above Halepōhaku and increase compliance with the UH Maunakea Rules, certain facilities will be needed. The primary new facility may be a kiosk (Figure 5-2) on Mauna Kea Access Road adjacent to Halepōhaku. A gate may also be placed near the kiosk. The portion of the Mauna Kea Access Road currently considered appropriate for these facilities include where the road is adjacent to Halepōhaku (Figure 5-3). Several operational processes are under consideration as well (Figure 5-2). The location, scope, and design of the facilities, and the operation plan will be established following a detailed assessment of engineering and operation considerations, additional community consultation, and completion of the appropriate project review process (Part 3 of this Master Plan). Access management prior to completion of these facilities may be accomplished by stationing authorized personnel on the roadway to ensure that those vehicles and people proceeding above Halepōhaku are doing so in compliance with the applicable rules.

Figure 5-2: Schematic Illustrating Conceptual Initial Phase Facility Operation

![Schematic Illustrating Conceptual Initial Phase Facility Operation](source)

Current concepts include capping the number of non-2WD vehicles driven by nonresidents during the sunset viewing period (and requiring advance ticket purchase for access), and capping or not capping the number of non-tour, non-2WD vehicles driven by Hawai‘i residents during the sunset viewing period (and requiring free registration).
#112

Posted by Olivia Nohealani Guarna on 10/26/2021 at 3:18pm [Comment ID: 485]
Type: Suggestion
Agree: 0, Disagree: 0
It would be unacceptable to restrict or police the access of Kanaka Maoli to their mauna.

#113

Posted by romo on 10/05/2021 at 9:01am [Comment ID: 97]
Type: Suggestion
Agree: 0, Disagree: 0
A similar gate should be included on the egress side of the road. Otherwise, the public will just drive around the gate during times when the booth is not manned. MK users can have cards, or pin numbers to exit the gate during times in which the booth is not manned.

#114

Posted by anonymous on 10/26/2021 at 10:33am [Comment ID: 438]
Agree: 0, Disagree: 0
This seems like another way to keep Native Hawaiians out. What is the point of this facility and more importantly, why now?

#115

Posted by mcpeekm on 10/04/2021 at 1:13pm [Comment ID: 91]
Type: Correction
Agree: 0, Disagree: 0
All Kānaka Maoli are permitted free entry for cultural practices and cultural studies.

#116

Posted by Uilani Naipo on 10/26/2021 at 8:16pm [Comment ID: 515]
Type: Suggestion
Agree: 0, Disagree: 0
not ideal ... driver is on the opposite side of the kiosk.

#117

Posted by Doug Arnott on 09/12/2021 at 1:47pm [Comment ID: 30]
Type: Correction
Agree: 0, Disagree: 0
This booth is on the passenger side of the vehicle...card readers and pin pads need to be on the driver side..
Or the booth placed in the middle and the road widened at that spot to accommodate separated lanes.

#118

Posted by sam nelson on 10/24/2021 at 5:30pm [Comment ID: 267]
Type: Suggestion
Agree: 0, Disagree: 0
This is public land - why limit access? There is no need for this

#119

Posted by mellow023 on 10/25/2021 at 6:04pm [Comment ID: 340]
Agree: 0, Disagree: 0
NO MORE TELESCOPES ON THE MAUNA. Anything educational can be built somewhere NOT sacred. Adding a gate limiting access to the Mauna will limit culture practitioners from going to worship the Mauna. This should NOT be done. I strongly oppose this because kanaka maoli should be able to worship and be in ceremony when they are called to be, hence free access to the summit. And NO COMMERCIAL TOURS. These are not places for people to look and tour around. Mauna is a place of sacredness and love for deities.

#120

Posted by Pua Brown on 10/25/2021 at 3:31pm [Comment ID: 334]
Type: Correction
Agree: 0, Disagree: 0
You must not restrict access for Native Hawaiians.

#121

Posted by Cassidy Bennett on 10/25/2021 at 1:50pm [Comment ID: 311]
Type: Correction
Agree: 0, Disagree: 0
There should not be a gate limiting access to the Mauna.
Figure 5-3: Conceptual Schematic Indicating Area for Managed Access Initial Phase Facilities

Source: PSI
Area by Hale Pohaku needs to be improved and expanded to educate the public on all aspects of the mountain, both scientific and cultural.
Accessory facilities would be needed wherever the kiosk, and potentially a gate, is built. These may include, but may not be limited to: (i) road/intersection improvements to enable “U” turns (this is needed to afford those who approach the kiosk, but are not allowed to proceed up the mountain, to safely turn around); (ii) lighting to provide safety in the vicinity of the access management facilities; (iii) utility connections to provide communications links and electrical power; (iv) signs to provide warnings and instructions to vehicle drivers; and (v) boulders or other barriers to inhibit circumventing the management facility.

5.3.2 Phase 2 Access Management Facilities Concept

As presently conceptualized, the second phase of managing public access to UH’s Maunakea Lands involves the establishment and operation of a shuttle system. The specific new facilities on UH Maunakea Lands that would be needed to support a shuttle system are not yet well-defined because the shuttle concept has not yet been fully developed. However, they are likely to include, the following:

- The relocation of the facilities installed in Phase 1 or the installation of additional gates and/or kiosks within Halepōhaku or the adjacent portion of the Mauna Kea Access Road.
- Additional parking areas and/or shuttle storage/maintenance space at Halepōhaku, in the unlikely event that the shuttle terminal is at Halepōhaku.
- Shuttle stops, with shelter and signs, at various locations at Halepōhaku and in the MKSR, likely in areas used for visitor parking prior to the start of this phase.
- Accessory improvements such as lighting, utilities, and signs.

In addition to those facilities listed above that would be on UH Maunakea Lands, a new visitor parking area and shuttle base facility would likely be necessary on non-UH land somewhere along the Mauna Kea Access Road between Saddle Road and Halepōhaku. Signs and other accessory improvements would also likely be necessary on non-UH land below Halepōhaku. UH presently anticipates that it would seek to cooperate with the Department of Hawaiian Home Lands (DHHL) or another organization to operate the shuttle, especially if the base facility is on DHHL land. The cooperating organization, along with other stakeholders, would play a significant role in identifying and siting the facilities required to implement the shuttle phase.

Public input will continue to be sought and the economic viability of a shuttle phase will continue to be evaluated and only implemented when warranted.
#123

Posted by CP on **10/26/2021** at **10:18pm** [Comment ID: 547]

*Type: Suggestion*  
*Agree: 0, Disagree: 0*

Making things easier to access, more signs, more kiosks, will innately bring more traffic. Really looking at what is sustainable amount of traffic and creating a plan to manage those different types of users will ultimately keep numbers down, while allowing cultural practitioners the freedom of time and movement. Currently DLNR requires permits for camping - one price local one price tourist. A similar system with pre-registration, and possibly a separate system for Native Hawaiians may accomplish the goal of managing traffic.

#124

Posted by shennessey on **10/25/2021** at **11:34pm** [Comment ID: 395]

*Type: Suggestion*  
*Agree: 0, Disagree: 0*

If it is located on DHHL land, then it belongs to Hawaiians, as does the rest of this Mauna. It should not be under the jurisdiction of UH.

#125

Posted by Uilani Naipo on **10/26/2021** at **8:24pm** [Comment ID: 518]

*Type: Suggestion*  
*Agree: 0, Disagree: 0*

having a cultural center at the base (mauna kea access rd) should be considered. This center should be have rest facilities, vendor (to provide hydration), and education - both educational, health awareness of going up, scientific information of the science reserve, and what to expect (to include cost). This site should be hwn-own and hwn-operated businesses and vendors. This is real important that the first "face" to visitors, should be locals - priority of Hawaiians, that demonstrate code of conduct and protocol (even if it's just 5 min stop here). the current visitors center (even if they do the reconstruction/redesign) does not have enough footprint to provide a thorough user experience and education.

#126

Posted by Wainani on **10/10/2021** at **1:12pm** [Comment ID: 150]

*Agree: 0, Disagree: 0*

As long as the old decommissioned scopes are removed, I support the tmt replacing them with the caveat that the public has physical access and educational benefits, open house etc. If king Kalakaua was alive, I think he would support it as well, because he was a renaissance man… brought technology to Hawaii. Our Iolani Palace had electricity before the White House or Buckingham Palace; Lahainaluna School is the oldest school west of the Rocky Mountains and owned the first printing press in the
west!

There’s lots of people, even kanaka, who support TMT, but feel scared to speak out.

Good luck!

#127

Posted by mcpeekm on 10/04/2021 at 1:16pm [Comment ID: 92]
Agree: 0, Disagree: 0
First, land must be permitted to all Kānaka Maoli. Before further usage of DHHL lands are to be accessed.

#128

Posted by anonymous on 10/26/2021 at 10:34am [Comment ID: 439]
Agree: 0, Disagree: 0
After all these years and NOW a gate is going to be built? There is not enough sufficient evidence pointing to why this would be needed now

#129

Posted by rromo on 10/05/2021 at 9:03am [Comment ID: 98]
Type: Suggestion
Agree: 0, Disagree: 0
the lower parking lot at the VIS (gravel) could be used as the shuttle station.

#130

Posted by sam nelson on 10/24/2021 at 5:31pm [Comment ID: 268]
Type: Suggestion
Agree: 0, Disagree: 0
I object to a shuttle system

#131

Posted by rromo on 10/05/2021 at 9:06am [Comment ID: 99]
Type: Suggestion
Agree: 0, Disagree: 0
For the purpose of the shuttle system, I would recommend looking at other sites that have successfully implemented a similar program. One example is Sabino Canyon in the Coronado National Forest in Tucson, AZ.
hits://www.fs.usda.gov/recarea/coronado/recarea/?recid=75425

#132

Posted by Devon Bearden on 09/15/2021 at 9:25am [Comment ID: 53]
From what I understand, this land is sacred to native Hawaiians. I think it’s great you are asking for people’s opinions here but I believe the most respectful thing to do is to seek out the opinion of native Hawaiians in particular.

#133

Posted by anonymous on 10/26/2021 at 10:40am [Comment ID: 441]

Installing a shuttle system is another move towards more development and more tourism on the Mauna. This whole plan is just to further your ambitions instead of actually listening to the voices of the people. Why would there be an expansion of tourism here? Adding more facilities and parking, permanent bathroom structures - this is not taking care of the Mauna. There have been so many years of mismanagement and now you’re just adding more structures to manage. Even the decommission plans are just temporary before adding more telescopes on the Mauna. Please, listen to us when we say that we do not want anything more up there. The plan of making these new fancy structures do not benefit the Mauna or the Native Hawaiians - it’s just a facade to continue your own plans. Please listen to us. Please.
*The name of this plan, E Ō I Ka Leo, and its translation was provided by noted Native Hawaiian scholar Larry Kimura, Associate Professor at UH Hilo. The authors express their deep gratitude for this gift.

PREPARED FOR:
University of Hawaiʻi

PREPARED BY:
Planning Solutions, Inc.
Hoʻokuleana, LLC

SEPTEMBER 2021
#001

Posted by shennessey on **10/25/2021** at **11:36pm** [Comment ID: 396]

*Type: Suggestion*

*Agree: 0, Disagree: 0*

Hear my voice: I do not consent to the construction of TMT or any other development on Maunakea. Not now, not ever.

#002

Posted by Anonymous on **10/20/2021** at **4:30am** [Comment ID: 203]

*Type: Correction*

*Agree: 0, Disagree: 0*

STOP THIS DISGUSTING DESTRUCTION OF NATIVE LANDS. Haven’t you done enough damage? Think about someone besides yourself for once in your ****** life

#003

Posted by pcross on **10/25/2021** at **9:13am** [Comment ID: 290]

*Agree: 0, Disagree: 0*

We do not need any more telescopes!

#004

Posted by NormajeanVas on **10/09/2021** at **5:25pm** [Comment ID: 146]

*Agree: 1, Disagree: 0*

The Stars!! I am a Second generation Teotihuacahn Nahua people (descended from the Aztecs in Mexico). I have lived on Oahu for many decades now, and do not understand the hesitancy from the Native Hawaiians to observe the stars and the universe. We explore and live from the ocean, which is also spiritual with many sacred under-water sites. Mauna Kea is spiritual and should be the extended eye with which we explore the stars. Some native Hawaiians believe that Polynesians are descended from the people from South America. We are so much alike that I believe it to be true. I feel it in my blood, which is considered sacred, that TMT should be built. Aloha!
# E Ō I KA LEO (LISTEN TO THE VOICE)

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### ACRONYMS AND ABBREVIATIONS

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<tr>
<td>AURA</td>
<td>Association of Universities for Research in Astronomy</td>
</tr>
<tr>
<td>BLNR</td>
<td>Board of Land and Natural Resources</td>
</tr>
<tr>
<td>BOR</td>
<td>UH Board of Regents</td>
</tr>
<tr>
<td>CDUA</td>
<td>Conservation District Use Application</td>
</tr>
<tr>
<td>CDUP</td>
<td>Conservation District Use Permit</td>
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<td>CFHT</td>
<td>Canada-France-Hawaii Telescope</td>
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<td>CIP</td>
<td>Capital Improvement Project</td>
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<td>CMP</td>
<td>Comprehensive Management Plan¹</td>
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<td>CMS</td>
<td>Center for Maunakea Stewardship</td>
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<tr>
<td>CRMP</td>
<td>Cultural Resources Management Plan</td>
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<td>CSO</td>
<td>Caltech Submillimeter Observatory</td>
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<tr>
<td>CRMP</td>
<td>Center for Maunakea Stewardship</td>
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<td>DESI</td>
<td>Dark Energy Spectroscopic Instrument</td>
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<td>DHHL</td>
<td>Department of Hawaiian Home Lands</td>
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General Lease General Lease S-4191 from BLNR to UH, which expires December 31, 2033

GRACES  Gemini Remote Access to CFHT ESPaDOnS Spectrograph
GRP    Grouted rubble pavement
HAR    Hawai‘i Administrative Rules
HDOT   Hawai‘i Department of Transportation
HECO   Hawaiian Electric Company
HRS    Hawai‘i Revised Statutes
HVAC   Heating, ventilation, and air conditioning
IfA    Institute for Astronomy
‘Imiloa ’Imiloa Astronomy Center of Hawai‘i
IR     Infrared
IRTF   NASA Infrared Telescope Facility
JCMT   James Clerk Maxwell Telescope

¹ Unless stated otherwise, the term “CMP,” as used in this document, is inclusive of (i) the *Mauna Kea Comprehensive Management Plan, UH Management Areas* dated April 2009; (ii) the *Natural Resources Management Plan for the UH Management Areas on Mauna Kea, A Sub-Plan of the Mauna Kea Comprehensive Management Plan* dated September 2009; (iii) *A Cultural Resources Management Plan for the University of Hawai‘i Management Areas on Mauna Kea, Ka‘ohe Ahupua‘a, Hāmākua District, Hawai‘i Island, State of Hawaii, TMK: (3) 4-4-015: 09, 12, A Sub-Plan of the Mauna Kea Comprehensive Management Plan* dated October 2009; (iv) the *Public Access Plan for the UH Management Areas on Mauna Kea* dated January 2010; and (v) the *Decommissioning Plan for the Mauna Kea Observatories, a Sub-Plan of the Mauna Kea Comprehensive Management Plan* dated January 2010.
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<td>Kahu Kū Mauna</td>
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<td>MKMB</td>
<td>Mauna Kea Management Board</td>
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<td>MKO</td>
<td>Maunakea Observatories</td>
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<td>MKSR</td>
<td>Mauna Kea Science Reserve</td>
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<td>MKSS</td>
<td>Maunakea Observatories Support Services</td>
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<td>Memorandum of Agreement</td>
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<td>Maunakea Spectroscopic Explorer</td>
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<td>Manual on Uniform Traffic Control Devices</td>
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<td>Office of Maunakea Management</td>
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<td>Photovoltaic</td>
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<td>SDP</td>
<td>Site Decommissioning Plan (a sub-plan of the CMP)</td>
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<td>SHPD</td>
<td>State Historic Preservation Division (DLNR)</td>
</tr>
<tr>
<td>SMA</td>
<td>Submillimeter Array</td>
</tr>
<tr>
<td>TMK</td>
<td>Tax Map Key</td>
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<tr>
<td>TMT</td>
<td>Thirty Meter Telescope</td>
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<tr>
<td>UC</td>
<td>University of California</td>
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<tr>
<td>UH</td>
<td>University of Hawai‘i</td>
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<tr>
<td>UH Hilo</td>
<td>University of Hawai‘i at Hilo</td>
</tr>
<tr>
<td>UKIRT</td>
<td>United Kingdom Infrared Telescope</td>
</tr>
<tr>
<td>VIS</td>
<td>Visitor Information Station</td>
</tr>
<tr>
<td>VLBA</td>
<td>Very Long Baseline Array</td>
</tr>
<tr>
<td>VPA</td>
<td>Vice President for Administration</td>
</tr>
</tbody>
</table>
INTRODUCTION

This part of the Master Plan, Part 3, discusses the implementation of this Master Plan, including the proposal review process, design guidelines, and amendment procedure. Part 1 of the Master Plan provides important context for the understanding of the facilities and land uses that may be proposed over the life of this Master Plan. Part 2 of the Master Plan discusses the facilities and land uses that UH believes may be proposed within the UH Maunakea Lands over the period of this Master Plan.

Any project proposed within the UH Maunakea Lands that meets the definition of “land use” under the DLNR’s Conservation District Rules (HAR Chapter 13-5) will need to obtain certain approvals (from UH, DLNR, and perhaps others); proposals that are not a land use may also require approvals (from UH and perhaps others), but are not the subject of this Master Plan. In general, cultural practices and recreational activities do not involve land uses and are therefore not subject to this Master Plan.

The proposals that are “land uses” and that UH believes may be advanced over the period of this Master Plan are discussed in Part 2 of this Master Plan. Only facilities and developments that UH believes are consistent with its mission, vision, goals, and objectives outlined in Part 1 are included. To that end, conservation-related actions, facilities to support public access and activities, astronomy facilities, and equipment to collect data and conduct research are the principal land uses presented in this Master Plan for the UH Maunakea Lands. The inclusion of a facility or land use in this Master Plan does not mean that it will be officially proposed during the period of this Master Plan. Part 3 of this Master Plan also includes a framework for UH to consider proposals not identified in this Master Plan.

Proposals that are considered land uses will first need to be reviewed and approved by UH (Chapter 6). In addition, common requirements for such proposals include satisfying environmental disclosure requirements (e.g., HRS Chapter 343), obtaining regulatory approvals (e.g., HRS Chapter 6E), and acquiring a Conservation District Use permit or approval.

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32 The Conservation District Rules apply because UH Maunakea Lands are within the State of Hawai‘i Conservation District, Resource subzone.

33 Activities within the UH Maunakea Lands are governed by HAR Chapter 20-26 entitled “Public and Commercial Activities on Mauna Kea Lands” and may be subject to other regulatory requirements. All facilities, land uses, and activities also need to consider the CMP, which is about the management of the UH Maunakea lands.

34 As defined in the current Conservation District Rules, these types of facilities and developments would fall into the following land use categories: Land and Resource Management, Astronomy, Public Purpose, Data Collection, and Signs.
It needs to be approved by the Hawaiian people. If the "State reaffirms and shall protect all rights, customarily and traditionally exercised for subsistence, cultural and religious purposes and possessed by ahupua’a tenants who are descendants of native Hawaiians who inhabited the Hawaiian Islands prior to 1778," (Const. Art. 12, § 7) you must seek the consent and approval of the ahupua’a tenants and descendants before any proposal that will impact Mauna Kea’s natural ecosystems and landscape moves forward.

Any proposals that impact the 'Aina need to have an Environmental Impacts Study and a Cultural Impact Study. All funding, including the money needed for decommissioning needs to be secured prior to construction so it doesn't further drain and tax the Hawaiian people. I resolutely demand that no more construction happens on Mauna Kea. If you will not listen to or respect the will, demands, and wishes of the Hawaiian people, you will be forced to perpetuate state violence against us and arrest us again like you did to na kupuna in 2019. The world is watching. If you are to ignore us - which you seem determined to do, all permits need to be in place BEFORE construction begins - not after. If construction begins without the necessary permits, EA and EIS, and water permits, and all funds secured, the project must not move forward and be abandoned so as to not force more of an emotional and financial burden on the Native Hawaiian people or those residing in Hawai'i.

Kanaka Maoli and their allies are asking for the Native Hawaiian culture and sacred land to be protected and respected. Going forward with this plan is willfully insensitive and disrespectful of their pleas.
6 PROPOSAL REVIEW PROCESS

The University of Hawai‘i (UH) will only allow a project proposed on UH Maunakea Lands to proceed to subsequent planning steps after it has gone through a vigorous review for consistency with all applicable UH policies, plans, procedures, and other considerations outlined in Part 3 of this Master Plan. This rigorous review is necessary due to the area’s sensitive environment and public interest in proposals on UH Maunakea Lands.

All proposals that represent new land uses on UH Maunakea Lands, or that would substantially alter previously approved land uses on these lands, must complete the internal UH review and approval process described below before proceeding. This includes but is not limited to: (i) work on any astronomy site, roadway, utility line, building, or other type of structure; (ii) excavation, filling, or change to surface topography; and (iii) planting or removal of vegetation. Proposals that consist entirely of interior work in an existing structure (e.g., projects that do not alter the exterior of an existing facility such as installing a new instrument on a telescope) are typically not land uses; consequently, this review and approval process would not apply.

The internal UH review process outlined in this chapter is a framework for how UH determines whether a land use proposal within the UH Maunakea Lands may proceed with seeking permits and approvals from other regulatory authorities. The process begins with an entity submitting a proposal (Section 6.1) and then one or more phases of review depending on the proposal’s suitability, scope, and scale. During the Phase 1 review (Section 6.2), the proposal is screened and assessed to establish whether it is appropriate for the UH Maunakea Lands. All proposals considered appropriate then advance to the phase 2 review (Section 6.3) and potentially other phases of review.

The process laid out in this Part 3 is separate from other applicable agency permits and approvals. After UH approves a particular land use proposal, the proposal proponents will need to obtain a permit or approval from DLNR or BLNR under DLNR’s Conservation District Rules (HRS Chapter 183C/HAR Chapter 13-5) since all UH Maunakea Lands are also within the Conservation District. Because UH Maunakea Lands are state lands, the State environmental review process is triggered (HRS Chapter 343/HAR Chapter 11-200.1). Consultation with DLNR’s State Historic Preservation Division is usually required, given the potential effects on historic property and native Hawaiian burials (HRS Chapter 6E). These are just a few examples of the permits and approvals that may be required from other regulatory agencies. The UH review process laid out in this Part 3 does not replace any subsequent required approvals. However, the UH review process is intended to complement and support future efforts and ensures early planning, community outreach, and agency consultation before a proposal is advanced.

35 For purposes of this Master Plan, “land use” has the same meaning as defined under DLNR’s Conservation District Rules at HRS § 13-5-2, which provides as follows: “‘Land use’ means: (1) The placement or erection of any solid material on land if that material remains on the land more than thirty days, or which causes a permanent change in the land area on which it occurs; (2) The grading, removing, harvesting, dredging, mining, or extraction of any material or natural resource on land; (3) The subdivision of land; or (4) The construction, reconstruction, demolition, or alteration of any structure, building, or facility on land.” As further provided under HRS § 13-5-2, the term land use “does not include the taking of . . . wildlife that is regulated by state . . . hunting laws nor the gathering of natural resources for personal, non-commercial use or pursuant to Article 12, Section 7 of the Hawaii State Constitution or section 7-1, HRS, relating to certain traditional and customary Hawaiian practices.”
6.1 SUBMITTING A PROPOSAL

A project proponent can officially submit their proposal by completing and submitting the most recent version of a Project Proposal Form, which will be available online after this Master Plan is finalized. UH and entities that have existing facilities within the UH Maunakea Lands submit their proposals via a Five-Year Outlook Plan, which they submit annually. The Five-Year Outlook Plan describes all the projects that each entity anticipates undertaking over the next five years.

The required content and format of the Project Proposal Form and the Five-Year Outlook Plan may change over the period of this Master Plan. At minimum, it is expected that these documents will always require the following information:

- Proposal name and purpose;
- Proposal location, if known;
- Proposal description, including: (i) square footage of added space (if any), (ii) necessary infrastructure requirements, (iii) construction crew and equipment likely required, and (iv) need for/estimate of volume of ground disturbance; and
- Anticipated start date and duration.

6.2 PHASE 1 SCREENING AND ASSESSMENT

The first phase of UH’s review process involves the screening and assessment of a proposal to determine if it is appropriate for siting on UH Maunakea Lands. This phase of review is conducted after a proponent officially submits their proposal; the process is illustrated in Figure 6-1. The Phase 1 screening and assessment centers on the proposal’s ability to address and/or comply with the following criteria:

- Compliance with applicable University policies, as amended, related to real property held by UH, such as RP 10.201.
- Consistency with the mission, vision, goals, and objectives of this Master Plan (Part 1, Chapter 1).
- Consistency with the CMP and promotion of resource conservation and sustainability.
- Extent to which the proposal will:
  - Benefit from the conditions present within the UH Maunakea Lands,
  - Not significantly harm Maunakea’s resources, and, if applicable,
  - Employ world-class technology, research techniques, and design.
- Consistency with:
  - The requirements of the HRS Chapter 183C, and HAR Chapter 13-5, regarding land uses within the State Conservation District;
  - The terms and conditions of CDUPs that have been issued that are relevant to the proposal; and
in each of these administrative phases it is critical that a respected Hawaiian leader be in a position of co-managing these reviews. If we want UH and Astronomy to have a successful future it needs to increasingly be led by Hawaiian leaders.

#011

Posted by CP on 10/26/2021 at 10:22pm [Comment ID: 548]
Type: Suggestion
Agree: 0, Disagree: 0
Benefit the islands and the Hawaiian people.

If we want to be progressive we need to get away from 'not significantly harm' this has a track record of meaning the project will go on regardless of harm being done. If UH receives another term of stewardship it is time to improve on commitments and language and procedure should enforce that.

#012

Posted by Anoynomous on 10/26/2021 at 8:53pm [Comment ID: 524]
Type: Suggestion
Agree: 0, Disagree: 0
There is no specific requirement (under minimum requirements) about HOW any proposed project will honor and BENEFIT the Native Hawaiian people. Much of this draft master plan highlights the need to align with Native Hawaiian cultural values. If such is so important, then include in proposal requirement.
- The Design Guidelines set forth in Part 3, Chapter 7, or, where inconsistent, provide adequate justification for any variance from those guidelines that is being sought.

- Extent to which any reasonably foreseeable negative impacts to existing astronomy facilities can be avoided, minimized, or mitigated.

**Figure 6-1: Phase 1 Screening and Assessment Process Flowchart**

Proponent submits proposal to CMS (using Project Proposal Form)

Step 1. CMS staff evaluate proposal against criteria listed in Section 6.2, which include:
- Ability to comply with UH policies, this Master Plan, and the CMP.
- Requires Maunakea’s unusual resources or position/elevation for success.
- Consistency with Conservation District purposes and subzone objectives, conditions of existing permits (if applicable), and design guidelines.
CMS staff prepare evaluation report (report can be verbal or written, depending on scope of proposal).

CMS staff evaluate proposal against criteria listed in Section 6.2, which include:

- Ability to comply with UH policies, this Master Plan, and the CMP.
- Requires Maunakea’s unusual resources or position/elevation for success.
- Consistency with Conservation District purposes and subzone objectives, conditions of existing permits (if applicable), and design guidelines.

UH will only entertain proposals that it believes meet the criteria listed above. CMS staff will be the first to assess the proposal and prepare a written and/or verbal report (Step 1). The CMS Executive Director (or UH Hilo Chancellor designee) will consider the staff’s report and may seek input from others (Step 2). Those sought out for early input will depend on the scope of the proposal and may include affected units within UH, members of the CMS advisory bodies, regulatory agencies with jurisdiction or expertise, Hawai‘i Island community, native Hawaiian
Kanaka Maoli are NOT part of this process. Why are the most impacted community NOT part of this process?
No community consultation either, it's like you're not serious about listening to our leo! Kahu Ku Mauna has not been consulted even though they are part of the flowchart to be consulted.

I adamantly oppose this plan and know that UH should stop everything and all the leases. Just listen to the kanaka maoli and elders telling you about protection, love, and care.
cultural practitioners, or other interested persons. In general, input will be sought from people that (i) have expertise in the field of research or endeavor being proposed, (ii) have expertise concerning potential impacts, and (iii) those operating facilities or conducting activities near the proposed location, if a specific location has been identified. Once a decision has been reached, CMS will prepare a letter to the proposal proponent (Step 3) outlining if the proposal is appropriate for UH Maunakea Lands or not, and if not, why.

At the discretion of the CMS Executive Director, UH may require that the proponent identify a UH sponsor. The input process described above may aid in identifying the proposal sponsor if one has not already been identified. The UH sponsor should be knowledgeable and supportive of the proposal and should assist CMS with future proposal review steps, if necessary. The sponsor should be project specific; for example, an IfA astronomer might sponsor an astronomy project, or a UH climate scientist might sponsor a weather station proposal.

### 6.3 PHASE 2 PROPOSAL REVIEW

Most proposals found to be appropriate for UH Maunakea Lands during the Phase 1 screening and assessment will advance to Phase 2 review with no action required by the proposal proponent. However, there are a few exceptions: (i) if the proposal proponent was directed to identify a UH sponsor during Phase 1, then the Phase 2 review will only commence once the UH sponsor has been selected; and (ii) if the proposal is a decommissioning, then the proposal proponent shall prepare and submit a Notice of Intent (NOI) and a Phase 1 Environmental Site Assessment (ESA), prior to the commencement of the Phase 2 review.

Figure 6-2 provides a flowchart illustrating the Phase 2 review process. The process involves CMS staff, the CMS Executive Director, CMS advisory bodies, and culminates in a determination by the CMS Executive Director (or UH Hilo Chancellor designee). The primary purposes of the Phase 2 review include:

- **Establishing the proposal type.** There are three proposal types (Type A, Type B, and Type C); Figure 6-3 illustrates the considerations associated with establishing the proposal type. Proposal types are generally determined based on project complexity and impacts, requiring more intense review as we move from Type A to Type C.

- **Providing general comments.** During this first detailed review of the proposal, the CMS staff and advisory bodies will provide general comments typically consisting of (i) requests for additional information, such as more detailed descriptions of certain proposal components, field studies, and technical reports; (ii) advice on potential measures to avoid, minimize, or mitigate proposal impacts; and (iii) if the proposal is a Type C proposal, input on the Implementation Plan content.

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36 Project proponents are encouraged to plan their project and work with a UH sponsor before and after the review process. However, any relationship between the proponent and sponsor before or after the project review process is beyond the scope of the review process. In the case of projects proposed by CMS, the project proponent will be the CMS project manager and that individual will not be involved in drafting the staff report in this or subsequent project review processes.
Figure 6-2: Phase 2 Review Process Flowchart

Step 1(a). If required after Phase 1 ESA, **Proponent identifies** a UH proposal sponsor in consultation with CMS; if a decommissioning, **Proponent provides** NOI and Phase I ESA.

Step 1. **CMS staff prepares report** that proposes Type (A, B, or C; which is informed by discussions with DLNR; see Figure 1-3), provides comments, and lists draft conditions.

Step 2. **CMS ED reviews and approves staff report** and authorizes proceeding to Step 3.

Step 3. **Kahu Kū Mauna (KKM)** and **Environment Committee (EC) review and comment** on proposal and associated CMS report.

Step 4. **Maunakea Management Board (MKMB) reviews** proposal, associated CMS report, plus KKM and EC input, and provides a recommendation.

Step 5. **CMS ED** (or UH Hilo Chancellor designee) reviews all available information and advice, then **decides** which type each proposal is and what conditions should be imposed, if any, or rejects the proposal; the determination is documented in a letter to Proponent.

6.a If Type A, this determination shall serve as UH’s approval. Proponent can proceed (as applicant) with downstream disclosures, approvals, and/or permits, if any (see Section 6.6.1 and Figure 6-6)

6.b If Type B, proceed to Phase 3 review described in Section 6.4 and Figure 6-4; also see Figure 6-7 for Type B process overview.

6.c If Type C, proceed with Phase 4 agreement and review described in Section 6.5 and Figure 6-5; also see Figure 6-8 for Type C process overview.

6.d Proposal rejected as submitted; Proponent may revise and resubmit.

Source: UH
Figure 6-3: Establishing Proposal Type Flowchart

The UH Type determination is guided by consultation with OCCL under its Conservation District Rules (HAR Chapter 13-5). This consultation occurs before an application is submitted; OCCL will not make a formal determination on whether a site plan approval, departmental permit, or board permit will be required, if at all. The purpose of the UH Type designation is to facilitate planning at the earliest practicable time and allocate appropriate staff time and resources to UH review.

CMS staff, Proponent, and UH proposal sponsor (if applicable) review HAR Chapter 13-5, as amended, and discuss with OCCL the type of CDUP that will likely be required for the proposal, if any. CMS staff will then recommend the type of UH review and approval that is appropriate.

<table>
<thead>
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<th>Minor alteration; Minor repair; Replacement</th>
<th>Moderate alteration; Repair, maintenance, operation</th>
<th>New facility/project</th>
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<tbody>
<tr>
<td>Decom, complete and full</td>
<td>Decom, not complete and full</td>
<td></td>
</tr>
<tr>
<td>No approval necessary*</td>
<td>Site Plan Approval</td>
<td>Departmental Permit</td>
</tr>
<tr>
<td>UH Type A</td>
<td>UH Type B</td>
<td>UH Type C</td>
</tr>
</tbody>
</table>

Note: * In some cases, no approval is necessary from DLNR; however, the Chairperson of BLNR has discretion regarding whether a permit or approval is required and what type of permit or approval is appropriate.

Decom = decommissioning.

Source: UH

- **Identifying potential conditions.** For all proposal types, except Type A, this is the first of at least two UH review cycles. Therefore, the conditions identified during Phase 2 review may be dropped, modified, and/or expanded during subsequent phases of review. In the case of Type A proposals, the conditions identified during Phase 2 review will be fully developed and the only conditions placed on the proposal by UH.
CMS and the advisory bodies have latitude to identify secondary purposes of the Phase 2 review depending on the scope, scale, or type of proposal.

In Step 1 of the Phase 2 review, CMS evaluates the proposal and prepares a staff report that addresses the primary purposes listed above; this includes a recommendation regarding the proposal type – Type A, Type B, or Type C – based on the considerations outlined in Figure 6-3. CMS may consult with the proposal proponent, UH sponsor, DLNR, and others to assist and inform its evaluation. In Step 2, the CMS ED reviews and approves the staff report before it goes to the CMS advisory bodies for consideration in Steps 3 and 4. The advisory bodies review the proposal and CMS’ recommendation and provide their input on the matter to the CMS ED (or UH Hilo Chancellor designee) who then, in Step 5, makes a formal determination regarding the proposal’s type, the proposal comments that will be provided to the proponent, and which conditions will be attached to the proposal. Those decisions will be documented in correspondence from UH to the proposal proponent.

For proposals determined to be Type A, the UH review process ends at the completion of the Phase 2 review. For other proposal types, the UH review process proceeds to Phase 3 or Phase 4, as discussed in Sections 6.4 and 6.5.

6.4 PHASE 3, TYPE B PROPOSAL REVIEW

Those proposals determined to be Type B will proceed to the Phase 3 review. The Phase 3 review will commence once the proposal proponent provides any information requested at the completion of the Phase 2 review (Step 1). In the case of decommissioning proposals that intend to completely remove their facility and fully restore the site, the proponent shall provide additional Environmental Due Diligence products (EDD), if any are required, a Site Decommissioning Plan (SDP), and a Site Plan Approval application.

Figure 6-4 summarizes the Phase 3, Type B proposal review process. The process is similar to the Phase 2 review in that the process involves a review and report by CMS staff (Step 2), the review and approval of that report by the CMS Executive Director (Step 3), review and consideration of the proposal by the advisory bodies (Steps 4 and 5), and a written statement being provided to the proponent at the completion of the Phase 3 review process (Step 6). The scope of the Phase 3 review is different from the Phase 2 review wherein Phase 3 places emphasis on (i) advising the proponent on how best to comply with the CMP; (ii) advising the proponent how to avoid, minimize, or mitigate potential proposal impacts; and (iii) developing conditions that UH will place on the proposal. CMS and the advisory bodies have latitude to widen the scope of the Phase 3 review depending on the scope, scale, or type of proposal. It is also anticipated that during Step 2, CMS and the proponent will work to resolve, via project clarifications, modifications, or other means, concerns raised by CMS.
Figure 6-4: Phase 3, Type B Proposal Review Flowchart

Step 1. **Proponent provides** CMS with requested information (e.g., more developed plans and Site Plan Approval application) for the Type B proposal, when it becomes available; if a decommissioning proposal (complete removal and full restoration) **Proponent provides** additional EDD products (if any triggered), Site Decommissioning Plan (SDP), and Site Plan Approval application.

Step 2. **CMS reviews** additional information, consults with Proponent (who revises proposal, if appropriate), and prepares a staff report.

Step 3. **CMS ED reviews and approves** staff report and authorizes proceeding to Step 4.

Step 4. **KKM and EC review and comment** on additional information and associated CMS report.

Step 5. **MKMB reviews** additional information, associated CMS report, KKMC input, Environment Committee input, and public input, then provides a recommendation.

Step 6. **CMS ED** (or UH Hilo Chancellor designee) reviews all available information and advice, consults with UH Hilo Chancellor, then **provides Proponent written statement with conditions**, if any.

Application and UH conditions agreeable to both CMS and Proponent?

No

Proponent proceeds with obtaining necessary permits and approvals.
- Proponent complies with UH conditions and is applicant for approvals and permits.
- UH signs as landowner where required.
- Proponent consults with UH as appropriate.

Yes

If the proposal proponent finds the UH conditions acceptable and both the proposal proponent and UH find the Site Plan Approval application acceptable, then UH will sign the site plan approval.
application as “landowner” and the project proponent may proceed with obtaining any and all necessary permits and approvals. Such permits and approvals are beyond the scope of the UH review process outlined in this Master Plan and may include, but are not limited to, HRS Chapter 343, HRS Chapter 6E, and building permits. The appropriate party must obtain all required approvals and permits, if any, prior to implementing the Type B proposal.

If the proposal proponent finds the UH conditions unacceptable, then the proposal proponent shall provide additional information and/or modify their proposal and return to Step 1 of the Phase 3, Type B proposal review.

6.5 PHASE 4, TYPE C PROPOSAL REVIEW

Type C proposals are those that are assessed during Phase 2 review likely to require a departmental (i.e., DLNR) or board (i.e., BLNR) CDUP. Developing plans for and obtaining authorization to construct and operate a Type C proposal on Maunakea is a more intensive process that entails early and continuing consultation with UH, DLNR, the public (with special emphasis on the Native Hawaiian and Big Island communities), and other county, state, and federal agencies.

The Phase 4, Type C proposal review process is summarized in Figure 6-5 and consists of two parts: (i) the development of a proposal-specific Implementation Plan, which are Steps 1 through 6 of the Phase 4 review process; and (ii) the implementation of the proposal-specific Implementation Plan, which is Step 7 of the Phase 4 review process. The proponent shall draft an Implementation Plan for UH’s review and approval. The draft Implementation Plan shall include the proposal’s scope, schedule, budget, and long-term operation and maintenance plan. The draft Implementation Plan shall be proposal specific, but should consider the following topics:

- Roles and responsibilities.
- Anticipated disclosures, approvals, and permits triggered.
- Points of UH/CMS review throughout disclosure, approvals, and permit process.
- Membership/makeup of a proposal-specific Phase 4 review committee.
- Procedure to be followed at each point of UH/CMS review.
- Schedule and review period durations.
- Other proposal specific considerations.

Once the proponent has provided the draft Implementation Plan, CMS and its advisory bodies will review and consider it as outlined in Figure 6-5 (Steps 2 through 6), which is similar to the Phase 2 review process. If the resulting Implementation Plan is acceptable to UH and the proposal proponent, the proponent will lead the implementation of that plan. If the proposal proponent or UH find the Implementation Plan unacceptable, the proposal proponent may modify their proposal and return to Step 1 of the Phase 4, Type C proposal review process.

The Implementation Plan should include a proposal-specific Phase 4 review committee that consists of members of the CMS advisory bodies and community members that are knowledgeable in various aspects of the proposal and its potential impacts. It is further anticipated that this
committee will review proposal materials, such as design drawings, environmental disclosure documents, and permit applications as the planning and review process progresses.

**Figure 6-5: Phase 4 Type C Proposal Review Flowchart**

1. **Proponent provides additional proposal information and a draft Implementation Plan.**
2. **CMS prepares** staff report.
3. **CMS ED reviews** and approves staff report and authorizes proceeding to Step 4.
4. **KKM and EC review and comment** on proposal information, draft Implementation Plan, and CMS report.
5. **MKMB reviews** proposal information, draft Implementation Plan, KKM input, EC input, and public input, then provides a recommendation.
6. CMS ED (or UH Hilo Chancellor designee) and reviews all available information and advice then approves or denies the Implementation Plan.

**Implementation Plan accepted?**

- **No**
- **Yes**

7. **Proponent leads, and UH/CMS supports, the execution of the Implementation Plan,** including the proposal-specific Phase 4 review process.
   - Phase 4 review committee
   - Disclosure documents
   - Necessary approvals
   - Permit applications (proponent is applicant, UH signs as landowner, if necessary)
   - Land agreements/right-of-entry which may require UH BOR approval and BLNR consent.
   - Etc.

Source: UH
#014

Posted by Jonah Bobilin on 10/21/2021 at 2:28pm [Comment ID: 214]
Type: Suggestion
Agree: 0, Disagree: 0
I suggest explicitly including avenues for wider community input, in particular the Hawaiian indigenous community, as part of any Phase 4, Type C Proposal Reviews in Step 4 of the review process. I do not consider review and comments by KKM to be sufficient in this matter. This should be of particular importance given the local community's deteriorating confidence in UH as a steward of Mauna Kea due to the controversy surrounding the development of TMT.

#015

Posted by Cassidy Bennett on 10/25/2021 at 1:53pm [Comment ID: 313]
Type: Correction
Agree: 0, Disagree: 0
If this document is called "listen to the voice" and there is no listed community input here, whose voice is being listened to here?

#016

Posted by Pua Brown on 10/25/2021 at 3:07pm [Comment ID: 330]
Type: Correction
Agree: 0, Disagree: 0
Where does the consent and opinion of the Native Hawaiian people come in? There needs to be engagement, review, consideration and consent given by the Native Hawaiian people before any proposal moves forward.
6.6 OVERVIEW OF REVIEW PROCESS BY PROPOSAL TYPE

The following subsections provide an overview of the review process for each project type.

6.6.1 Type A

Type A proposals are expected to have negligible potential for adverse impacts and are anticipated not to require a Site Plan Approval or CDUP. Between 2000 and 2020, most proposals at existing facilities on UH Maunakea Lands were classified as similar to Type A projects because they tend to consist of efforts to keep existing facilities operating efficiently and safely instead of structural modifications.\(^{37}\) This trend is expected to continue in the coming years. Proposals involving the following may be considered Type A proposals:

- Repairs to existing equipment and structures.
- Like-to-like replacement of component external parts.
- Painting and resurfacing.
- Small new external equipment additions (e.g., cameras and weather sensors mounted on existing facilities, roof-mounted solar panels, and signs).
- The installation and operation of small data gathering instruments for periods of months.

As with all proposals, these proposals would need to complete Phase 1 and Phase 2 reviews (Sections 6.2 and 6.3). Given the small scale of these proposals and their negligible potential for adverse impact, the review process would be relatively short, on the order of 2 to 4 months. Figure 6-6 provides an overview of the process and timeline for Type A proposals.

Despite being Type A, additional permits and approvals may be required before these projects are implemented. Such permits and approvals are beyond the scope of the UH project review process outlined in this Master Plan and may include, but are not limited to, CDUP and building permits. The proposing party must obtain all required approvals and permits, if any, prior to implementing the project.

6.6.2 Type B

Type B proposals are those that are likely to require Site Plan Approvals from DLNR. Between 2000 and 2020, a small proportion of the proposals at existing facilities, generally no more than one or two per year across the 13 astronomy facilities, would fit in the category of Type B projects.\(^{38}\) Proposals involving the following may be considered Type B proposals:

- Modifications to an existing facility that involve a noticeable change in its outward appearance (e.g., a change to a façade or building addition).

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\(^{37}\) The terms Type A, Type B, and Type C were not used prior to this Master Plan. The vast majority of projects at existing facilities were characterized as a “minimal” project over the last 20 years.

\(^{38}\) The term Type B was not in use before this Master Plan. A small portion of the projects were characterized as “minor” projects.
#017

Posted by HiloResident on 10/06/2021 at 2:30pm [Comment ID: 125]

Type: Suggestion
Agree: 0, Disagree: 0

Suggest being more specific, like less than 1 year, if that is the intent. All durations of time can be measured in months, whether it's 0.0002 months or 10,000 months.

#018

Posted by HiloResident on 10/06/2021 at 2:27pm [Comment ID: 124]

Type: Suggestion
Agree: 0, Disagree: 0

Does this type A proposal include repainting of telescope facilities to blend into the landscape?
- Reconstruction of infrastructure that involves ground disturbance.
- Decommissioning projects that proceed with the intent of complete removal and full restoration and the incorporation of adaptive management lessons learned from previous decommissioning project.
- The installation and operation of data gathering instruments for periods of time measured in single-digit years.

As with all proposals, these proposals would need to complete Phase 1 and Phase 2 reviews (Sections 6.2 and 6.3), then complete a UH Phase 3 review (Section 6.4) prior to proceeding with other disclosure, approval, and permit processes. Figure 6-7 provides an overview of the process and timeline for Type B proposals. It is anticipated that a Type B proposal would take from 8 months to 1.5 years to complete the UH review process if the proposal proponent provides requested information and a draft Site Plan Approval application within 3 months of the completion of Phase 2.

At the conclusion of the Type B process, the proposal proponent is responsible for obtaining all necessary permits and approvals. Such permits and approvals are beyond the scope of the UH review process outlined in this Master Plan and may include, but are not limited to, HRS Chapter 343, HRS Chapter 6E, Site Plan Approval, and building permits. The appropriate party must obtain all required approvals and permits, if any, prior to implementing the Type B project.

6.6.3 TYPE C

Type C proposals are likely to require departmental (e.g., DLNR) or board (e.g., BLNR) CDUPs. It is anticipated that Type 3 projects will be rare during the term of this Master Plan. Proposals involving the following may be considered Type C proposals:

- Astronomy site modification.
- Astronomy site recycling.
- Decommissioning projects that do not intend a complete removal and full restoration.
- Proposals that require large volumes of earth movement.

As with all proposals, these proposals would need to complete Phase 1 and Phase 2 reviews (Sections 6.2 and 6.3), then, unlike other proposal types, gain UH acceptance of a proposal-specific Implementation Plan, which the proponent will then implement (Section 6.5). Figure 6-8 provides an overview of the process and timeline for Type C proposals. It is anticipated that Type C proposals would take from 9 months to 1.5 years to achieve approval of their proposal-specific Implementation Plan if the proponent develops a thorough Implementation Plan within three months of completing phase 2.

Although it is the proponent’s responsibility to comply with all applicable rules and regulations, obtain necessary approvals, and acquire necessary permits, UH will remain engaged throughout the Implementation Plan so that the proponent can benefit from UH’s knowledge and experience and the input from those on the Phase 4 review committee.
Figure 6-6: Review Flowchart and Timeline: Type A Proposal

Proponent submits proposal to CMS (using Project Proposal Form)

Phase 1: Screening and Assessment (see Figure 6-1)
- CMS reviews and consults with others as warranted
- CMS ED (or UH Hilo Chancellor designee) decides

Is proposal appropriate for UH Maunakea Lands?

Phase 2: Review (see Figure 6-2)
- CMS reviews and discusses with DLNR
- KKM and EC review/comment
- MKMB advises
- CMS ED (or UH Hilo Chancellor designee) decides

What Type is the proposal?

Type A

Type A, UH review complete (vast majority or proposals over last 20 years)

Conditions agreeable to both CMS and Proponent?

Proponent obtains necessary permits and approvals
- Proponent is applicant
- UH signs as landowner where required
- Proponent consults with UH as appropriate

All permits, approvals, and agreements obtained?

Proponent can implement project per plans, UH conditions, and approval/permit conditions

This chart does not apply
(proposal rejected as submitted)

This chart does not apply
(see Figure 6-7 or Figure 6-8 for Type B and Type C, respectively)

Source: UH
You are omitting a guarantee that community input will be part of each phase. The balance of power is still skewed in UH's favor with too many checkpoints where community input will be screened to not be considered in final steps of decision-making.
Figure 6-7: Review Flowchart and Timeline: Type B Proposal

Proponent submits proposal to CMS (using Project Proposal Form)

Phase 1: Screening and Assessment (see Figure 6-1)
- CMS reviews and consults with others as warranted
- CMS ED (or UH Hilo Chancellor designee) decides

Is proposal appropriate for UH Maunakea Lands?

No
- Proposal rejected as submitted

Yes

Phase 2: First Review (see Figure 6-2)
- CMS reviews and discusses with DLNR
- KKM and EC review/comment
- MKMB advises
- CMS ED (or UH Hilo Chancellor designee) decides

What Type is the proposal?

Not Type B
- This chart does not apply

Type B
- Type B, proceed with Phase 3 review

Phase 3: Type B Proposal Review (see Figure 6-4)
- Proponent provides more information and draft Site Plan Approval application
- CMS reviews, discusses with proponent
- KKM and EC review/comment
- MKMB advises
- CMS ED (or UH Hilo Chancellor designee) consults with UH Hilo Chancellor and decides

CDUA and UH conditions agreeable to both CMS and Proponent?

No

Yes

Period of time depends on Proponent and permitting agencies; expect 1 year

Proponent obtains necessary permits and approvals
- Proponent is applicant
- UH signs as landowner where required
- Proponent consults with UH as appropriate

All permits, approvals, and agreements obtained?

No

Yes

Proponent can implement project per plans, UH conditions, and approval/permit conditions

Source: UH
Figure 6-8: Review Flowchart and Timeline: Type C Proposal

1. **Proponent submits proposal to CMS (using Project Proposal Form)**

2. **Phase 1: Screening and Assessment (see Figure 6-1)**
   - CMS reviews and consults with others as warranted.
   - CMS ED (or UH Hilo Chancellor designee) decides.

3. **Is proposal appropriate for UH Maunakea Lands?**
   - Yes: Proceed.
   - No: Proposal rejected as submitted.

4. **Phase 2: First Review (see Figure 6-2)**
   - CMS reviews and discusses with DLNR.
   - KKM and EC review/comment.
   - MKMB advises.
   - CMS ED (or UH Hilo Chancellor designee) decides.

5. **What Type is the proposal?**
   - Not Type C: This chart does not apply.
   - Type C: Proceed with Phase 4 review.

6. **Phase 4: Type C Proposal Review, steps 1 through 6 (see Figure 6-5)**
   - Proponent provides additional proposal information and an Implementation Plan with proposal-specific Phase 4 review process.
   - KKM and EC review/comment on plan.
   - MKMB advises.
   - CMS ED (or UH Hilo Chancellor designee) consults with UH Hilo Chancellor and decides.

7. **Implementation Plan accepted?**
   - No: Period of time depends on Proponent and permitting agencies; expect 3 to 5 years.
   - Yes: Proponent implements the Implementation Plan.

8. **Phase 4: Type C Proposal Review, Step 7**
   - Proponent implements the Implementation Plan.
   - Phase 4 proposal review committee.
   - Disclosure documents.
   - Necessary approvals.
   - Permit applications.
   - Land agreements/right-of-entry which may require approval of UH BOR and consent of BLNR.
   - Etc.

9. **All permits, approvals, and agreements obtained?**
   - No: Continue with permitting.
   - Yes: Proponent can implement project per plans, UH conditions, and approval/permit conditions.

Source: UH
#020
Posted by Helaakaiminaauao on 09/12/2021 at 1:10pm [Comment ID: 29]
Agree: 0, Disagree: 0
Good to have a specific flowplan like this but I hope it doesn't make everything slower

#021
Posted by drkthomp on 10/25/2021 at 9:14pm [Comment ID: 361]
Agree: 0, Disagree: 0
Somewhere is this review process should explicitly include community input, especially in line with "listening to the voice". Seems contrary to stated values.

#022
Posted by Cassidy Bennett on 10/25/2021 at 1:52pm [Comment ID: 312]
Type: Correction
Agree: 0, Disagree: 0
No community input is listed specifically in this part of the flowchart.
7 DESIGN GUIDELINES

This chapter provides guidelines for astronomy facilities in the MKSR, certain other facilities in the upper slopes of Maunakea, and structures in Halepōhaku. The purpose of these guidelines is to minimize potential adverse effects, apply lessons learned to date, and encourage consistency among the current and future land uses. UH will be actively evaluating project designs and specifications from initial concept through final design. This will be true whether a project originates within UH or is proposed by a sub-lessee or other 3rd party.

These design guidelines apply to all structures that will remain on the site once construction activities are complete; they do not apply to temporary items that are only present at the site during construction. For example, while the guidelines discourage the use of fences, during the construction phase, temporary chain-link fencing may be used to delineate and secure the construction site.

7.1 GUIDELINES APPLICABLE TO ALL PROPOSED PROJECTS

The following specific guidance regarding the management of native excavated material and imported construction material should be followed by all proposed projects within the UH Maunakea Lands unless a proponent demonstrates a compelling reason for an exception and that incorporates community input via the CMS advisory groups regarding the exception.

7.1.1 MANAGEMENT OF NATIVE MATERIALS

Excavated native rock and soil material should be managed (i.e., removed and stockpiled) in a way that allows the site to be restored as nearly as possible to its original condition when the facility is decommissioned. Accordingly:

- The amount of native rock material disturbed by a project should be kept to a minimum consistent with the design requirements of the facility.
- Native material should not be crushed, or otherwise altered, more than necessary to move it to a stockpile or amended to the point where it cannot readily be used during the site restoration process unless it consists of massive lava flows and will be used as on-site fill material after it is crushed.
- All native material that is removed during the course of construction should either be used in an aesthetically acceptable way on-site, used for restoration projects elsewhere in the UH Maunakea Lands, or stored at the Batch Plant Staging Area or other location identified during the project review and approval process, if applicable. If it is stored off-site, provisions should be made for returning it to the site when the facility is decommissioned.

7.1.2 IMPORT OF AGGREGATE MATERIALS

The importing of aggregate materials shall be kept to a minimum and shall not occur unless material already present in the project area is demonstrably insufficient or of unacceptable quality. Any imported aggregate material must be removed to the maximum extent practicable when the facility is decommissioned.
Could you define what is meant by native material?
Where imported aggregate material must be used, it shall not be mixed with native material or be visible at the ground surface after construction is complete, except in parking areas. Material imported for fill and parking area surfacing shall be consistent with the surrounding native material to the degree possible (i.e., have a color like that of the adjacent lava rock or cinder).

In the case of concrete batching, aggregate materials may be imported to the Batch Plant Staging Area and utilized in the production of concrete. It is required that imported aggregate be used for concrete batching instead of native rock.

7.2 GUIDELINES APPLICABLE TO NEW ASTRONOMY FACILITIES IN THE MKSR

Unlike previous master plans, which envisioned expansion of astronomy uses within the summit region, UH has committed to: (i) removing astronomy uses from some of the astronomy sites on which it is presently authorized (i.e., decommissioning); and (ii) confining new astronomy developments (i.e., modification and recycling projects) to the remaining sites on which astronomy facilities are presently authorized. The design guidelines presented in this section apply only to new or substantially modified facilities; they do not apply to continued operation of existing astronomy facilities where no substantial external changes occur or sites that are decommissioned. The fundamental purposes of the guidelines are to (i) encourage designs and the use of materials that are appropriate to the environment and place, and (ii) minimize the chance that modification or recycling projects will unduly degrade the existing cultural, natural, or astronomical resources present on UH Maunakea Lands while also allowing facility sponsors the flexibility needed to modify and/or upgrade their facilities in ways that will enable them to continue to achieve their intended scientific objectives that the operators are seeking.

7.2.1 ALL IMPROVEMENTS TO REMAIN WITHIN SUBJECT ASTRONOMY SITE

Any new astronomy developments (modifications or recycling) that may occur over the term of this Master Plan will take place on the defined astronomy sites that remain available for consideration. One possible exception involves the potential combination of Astronomy Sites 7 and 8 in a specific situation, which is detailed in Part 2, Section 4.3.4.3, of this Master Plan.

Limited grading (i.e., the removal or addition of material that alters topography) beyond the defined astronomy site boundaries may occur only if and where off-site grading occurred when the facility was developed. For instance, where associated driveways and utility connections are not within the astronomy site, grading and other work needed to maintain those appurtenant facilities and build the proposed project may occur. Similarly, limited excavation within previously disturbed areas needed to accommodate complex-level underground infrastructure such as has been proposed for the conceptual OHANA Project (Part 2, Section 4.3.4.1), would be allowed. Past side-casting of material does not qualify an area as having been previously graded or disturbed; only designed cut and fill qualifies an area as previously graded or disturbed.

39 In the case of the SMA site, which accommodates dispersed and mobile facilities, no new grading in the non-exclusive easement area other than that needed to maintain existing facilities will be allowed.
7.2.2 DOME HEIGHT

UH foresees the possibility that it may receive between one and three facility modification or site recycling requests that involve an increase in the dome height during the term of this Master Plan. In all cases, the maximum height of new astronomy facility domes is to be minimized (including by utilizing improvements in technology, materials, and engineering), and project proponents must demonstrate to the satisfaction of UH that whatever dome height they propose is essential to the facilities’ satisfactory performance and/or to meet the purpose and need of the project. In addition, UH will only consider project proposals where the proposed heights are in accord with the limits described in this section. The limits have been developed to minimize the potential for a new significant adverse visual impact over the life of this Master Plan.

A new dome may not exceed the height of the domes (as measured from the ground on which they are constructed) on nearby/adjacent astronomy facilities that house similarly-sized and similar types of telescopes. A new dome may not appear higher in the sky than does Gemini when viewed from the benchmark location in Hilo (Figure 7-1) or Subaru when viewed from the benchmark location in Waimea (Figure 7-2).

A modification or recycling project could substantially increase the height of the new facility relative to the existing facility on the site. For example, Astronomy Site 4 is now home to a 3.2-meter telescope (IRTF) in a dome that reaches 66 feet above existing grade. A recycling of that site to accommodate an 8- or 10-meter telescope may result in a dome height similar to nearby/adjacent astronomy facilities with that size telescope (e.g., Keck and Subaru), resulting in a dome on Astronomy Site 4 that extends from ~110 to ~150 feet above grade. However, not all modification and recycling proposals will likely substantially increase the height of the new facility. For example, based on recent conceptual designs, the MSE project would not substantially increase the height astronomy facility on Astronomy Site 5 (currently CFHT).

**Figure 7-1: Sketch of View of Maunakea Astronomy Facilities from Benchmark Location in Hilo**

Notes: Waiakea Peninsula at Liliuokalani Park and Garden is the benchmark location in Hilo. AS = Astronomy Site

Source: PSI

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40 Waiakea Peninsula at Lili‘uokalani Park and Garden is the benchmark location in Hilo.
41 The corner of Lindsey Road and Māmalahoa Highway is the benchmark location in Waimea.
This guideline is written with the idea that "all" viewers dislike seeing the telescopes. It should be acknowledged that some individuals enjoy the view of the telescopes as an awe-inspiring reminder of the complex search for truth and knowledge and the ability of humans to create such benign capacity. These viewers see the telescopes as an enhancement, a birth of children from the mauna, and not an insult or degradation.
Figure 7-2: Sketch of View of Maunakea Astronomy Facilities from Benchmark Location in Waimea

Notes: The corner of Lindsey Road and Māmalahoa Highway is the benchmark location in Waimea. AS = Astronomy Site
Source: PSI

Allowing height increases consistent with the limitations in this section minimizes the potential for new significant visual impacts. It also means that the tallest current facilities, as viewed from the benchmark locations (i.e., Gemini, and Subaru), cannot increase their dome heights.

7.2.3 Height of Structures Other than Domes

In general, any new structure other than domes (e.g., support buildings) constructed on an astronomy site may extend no more than 25 feet above grade. However, exceptions may be made allowing portions to reach up to 40 feet above grade if a user can demonstrate to the satisfaction of UH that: (i) a height greater than 25 feet is essential to the satisfactory performance of the facility, or (ii) the project’s purpose and need requires technical components or facilities that require it to exceed a height of 25 feet. These criteria are established to limit visual impacts and the size of mountaintop facilities; it is set at 25 feet because that height allows for a two-level structure and existing facilities generally do not exceed that height.

Equipment that can readily be placed underground (e.g., water tank) should be so-located to minimize the extent of above-ground structures provided the project can comply with the management of native materials guideline. This does not apply to fuel storage tanks; see Section 7.2.10 below. In general, bulky exterior equipment that cannot be placed underground must be limited to a height of no more than 10 feet above ground level. However, if a user can demonstrate to the satisfaction of UH that this is not technically feasible, then the equipment may be up to 20 feet above ground level.

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42 This limit applies to bulky equipment like tanks, air handlers, and the like. It does not apply to less bulky equipment such as weather stations and sky cameras that may need to be higher to adequately support operations.
7.2.4 **Limit on Overall Bulk of Facilities on Astronomy Sites**

With technological improvements, an increase in remote observing and robotic operations, and design advancements, UH anticipates that the overall size of astronomy facilities, in proportion to the size of their primary mirror, will continue to decrease. The structures that are constructed as part of any modification or recycling project shall be as compact as is deemed reasonable and safe while achieving the purpose and need of the project.

7.2.5 **Color of Facilities**

Color affects both the visibility and the thermal properties of the facilities. Because of this, in choosing colors for facilities, designers should select ones that minimize the visual impact while also helping to manage the thermal loads on astronomy facilities. Accordingly, based on currently available information regarding available coatings and construction materials, all modification and recycling projects are expected to conform with the guidelines in the following subsections. UH may periodically update these guidelines if new products or materials that are more effective become available.

7.2.5.1 **Color of Dome and Dome Support Structure**

Based on the information that is currently available, domes and dome support structures should adhere to the following color guidelines.

- The rotating dome and shutter should have a reflective aluminum-like coating;
- The base of the dome should be lava- or cinder-colored; and
- All other visible surfaces, including concrete, should be colored with dark earth tones, lava, or cinder color.

7.2.5.2 **Support Facilities and Equipment Color**

Based on the information that is currently available, support facilities and equipment structures/housings should adhere to the following color guidelines.

- The sides and rooftops of all support facilities should be lava- or cinder-colored to match the adjacent surface color; and
- Utility pull boxes and other external equipment should be lava- or cinder-colored to match the surrounding landscape. No raw, uncolored concrete surfaces should be used.

7.2.6 **Snow and Ice Considerations**

Given the snow and ice that is present in the summit region during a substantial portion of the year, all structures and points of ingress/egress should be designed in such a way as to: (i) facilitate access for snow removal equipment; (ii) minimize hazards related to falling snow and ice; and (iii)

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43 As it is used in this discussion, the term “bulk” refers to the volume (measured in cubic feet above ground level) of all structures and equipment based on external dimensions (inclusive of support building, dome, and other structures/equipment).
A reflective aluminum color is an extraordinary visual distraction affecting the natural beauty of Mauna Kea. A huge metallic dome on top of a mountain may be a thing of beauty to many astronomers, but to the rest of us it just looks like an ugly pimple on the end of one's nose. I'm sure the scientific community can devise a different color scheme that provides the required amount of "cooling" for the equipment. If not, I know of some very talented theme park painting experts that can effectively make visual obstructions blend in with the surroundings. PLEASE CONSIDER A LESS OBTRUSIVE COLOR.

CHANGE ALL REFERENCES OF "SHOULD" to "MUST" IN SECTION 7.2.5. The choice of colors must not be optional, and must not be arbitrarily chosen by the builder. Furthermore, due to the immense size of many of these structures, a solid monochromic color does not provide an effective camouflage. The requirement should be for a drab color, mottled to imitate the natural surroundings as much as possible. A talented facade painter can achieve this effect by blending earth-tone colors to look very much like the actual lava field surrounding the facility. DO NOT ALLOW A MONOCHROMIC PAINT JOB ON ANY EXTERIOR PORTION OF A FACILITY THAT WILL BE PUBLICALLY VISIBLE. FACILITIES MUST BE DESIGNED TO VISUALLY BLEND IN WITH THE SURROUNDINGS, EFFECTIVELY "DISAPPEARING" WHEN VIEWED FROM A DISTANCE.

It would be helpful if there was a blanket approval for this preferred color of the dome and structure for all telescopes. My understanding is that it is easier to repaint the existing facilities the same color that they are now, than to repaint them to these 'better' colors, simply because of the extensive permitting process for these changes to occur.
Due to us having a flat roof in Hilo for 30 years we have gathered a lot of actual experience on roof color and heat attraction.
Aluminum and chrome are heat attractants...touch your bumper when car is in the sun.
Superwhite colors like GACO roof coating are cold to bare feet on hot days as was White Sands National Park composed of Gypsum....there are new coatings touted in Solar Photovoltaic news that are even more efficient at repelling the suns heat.
It seems unwise to specify a color that is NOT the best for the job which is purest white possible.
avoid/minimize building geometry, walls, and overhangs that are likely to produce snowdrifts that inhibit ingress/egress.

### 7.2.7 Landscape Plantings

No landscape plantings of any type are allowed in the MKSR.

### 7.2.8 Parking

Parking areas on modified and/or recycled astronomy sites should be kept to the smallest size consistent with the safe and efficient operation and maintenance of the facility which they support while complying with applicable rules or regulations, including the Americans with Disabilities Act of 1990 (ADA). They should also be designed with sensitivity to existing topographic contours so that they minimize the need for earthwork, blend in with the natural landforms, and do not stand out unnecessarily from their surroundings. Parking surfaces should not be paved and should match the surrounding landscape, as discussed in 7.1.2.

### 7.2.9 Fences, Walls, and Barriers

Fences, walls, and barriers should be used only where needed to protect human health and safety and, in all cases, should be designed to fit as unobtrusively as practical into the existing terrain. Where possible, fence and wall alignments should follow natural contours rather than maintaining a straight alignment without a specific operational need. The use of locally available material is required unless it is incapable of fulfilling the required function. No non-engineered material from outside of the Maunakea summit region shall be used.

Rock walls, including concrete walls with rock veneer, should be used in lieu of fences unless extraordinary circumstances make that impractical. The height of such walls should not exceed 42-inches above ground surface unless: (i) they serve as retaining walls, or (ii) are used to shield equipment, and (iii) do not affect view planes substantially more than the equipment would if the wall were not present.

Like rock walls, barriers, including guardrails, should be designed to minimize visual impact. Accordingly, they should not exceed a height of 42-inches above ground and should have colors and finished surfaces consistent with the surrounding landscape. Guardrails should be wire style, like existing guardrails in the summit region.

### 7.2.10 Fuel System and Hazardous Materials

New facilities on recycled sites that include bulk petroleum fuel storage for emergency generators will utilize only above-ground, double-walled fuel storage tanks and pipelines with spill containment systems and leak detection. If fuel facilities are relocated or modified as part of an astronomy facility’s major modification project, the fuel systems should use above-ground, double-walled fuel storage infrastructure.

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44 It is expected that loading zones may need to be paved; however, paving should be limited.
Modified and new facilities will be designed to minimize the use of hazardous materials to the maximum extent feasible.

**7.2.11 WASTEWATER SYSTEM**

New facilities in the MKSR (i.e., astronomy facilities constructed on recycled sites) will be required to have zero-discharge wastewater systems. Facilities that continue operating beyond 2033 will also be converted to zero-discharge wastewater systems.

**7.2.12 SOUND GENERATION**

Heating, ventilation, and air conditioning (HVAC) and other non-mobile equipment with the potential to generate objectionable noise shall be designed and operated in a manner that limits the amount of sound that emanates from it. This means that, at a minimum, it should comply with the provisions of HAR Chapter 11-46, as applicable.

**7.2.13 MAXIMIZE EXTENT OF REMOTE OPERATION**

To the extent that it is technically, operationally, and economically feasible, any modified or new facilities should be designed to be operated remotely and/or robotically, and operators should make as full use of these features as is practicable.

**7.2.14 EXCEPTIONS TO THE GUIDELINES FOR ASTRONOMICAL FACILITIES**

UH may allow exceptions to any of the design guidelines in Chapter 7, except those related to the number of astronomy sites and the height and bulk of facilities on them. For this to occur, the facility designer/operator must demonstrate, to UH’s satisfaction, that strict adherence to the guidelines is likely to prevent the satisfactory performance of the facility or prevent the project from achieving its purpose and need. The facility operator will also need to demonstrate that the proposed exceptions will not result in significant adverse effects.

Requests for exceptions may be approved if they are minor in nature and if the proposed project is otherwise consistent with the overall goals and objectives of this Master Plan. UH will make decisions regarding requested exceptions only after it receives and evaluates input from the Phase 4 proposal review committee, MKMB, and Kahu Kū Mauna.

**7.3 GUIDELINES APPLICABLE TO OTHER FACILITIES AND USES IN THE MKSR**

Other facilities and uses the UH foresees potentially being developed in the MKSR are limited in scope. Examples of other potential facilities and land uses over the life of this Master Plan include: (i) fencing areas of high native biodiversity, (ii) public restrooms and shelters, (iii) public parking, (iv) data collection facilities or instruments, and (v) signs. Such proposed projects will be subject only to the design guidelines contained in Section 7.1 and whatever conditions DLNR/BLNR place on them during the CDUP approval process.

Those designing non-astronomy facilities should consider the guidelines for astronomy facilities in Section 7.2 and seek to comply with them. For instance, non-astronomy facilities should, to the
extent possible: (i) be designed like astronomy support facilities and astronomy equipment and not exceed 25 and 10 feet in height, respectively; (ii) have flat or low-slope roofs; (iii) use lava or cinder colors (no untreated concrete); and (iv) have zero-discharge waste systems.

7.4 DESIGN GUIDELINES FOR HALEPŌHAKU (TMK PARCEL 12)

This Master Plan envisions the construction of very few entirely new facilities within Halepōhaku. To the extent that existing facilities are modified, or entirely new facilities are constructed, their scale, architectural style, and design motifs should be consistent with those already present within Halepōhaku’s different areas. More specifically:

- Renovations of existing facilities should seek to maintain their present size, with no increase in roofed area allowed unless specifically approved by the T3PRC.
- In general, any new facility constructed at Halepōhaku should have a scale like that of the facilities already present. In quantitative terms this means: (i) the height of new facilities should not exceed two stories and 30 feet above the finished grade and, like the existing dormitories, be designed to partially disguise that there is a second level; and (ii) total aggregate floor area of the structures present will increase by no more than 30 percent over the amount now present. The only exception to this is at the VIS, should it be established that a larger increase is necessary to improve visitor education and/or the visitor experience.
- The colors, textures, and materials that are used for any new construction should be consistent with those used for the existing structures that are near them, (e.g., dark earthen tones for all walls and roofs and A/C pavement and/or dark-colored concrete for all paving).
- All new plantings should be done using native species adapted to the māmane-dominated subalpine woodlands environment in which Halepōhaku is situated and follow guidance in the CMP.
- To minimize erosion, low impact development practices should be employed.
- Any new fences, walls, and barriers should be designed and constructed in accordance with the guidelines for those in the summit area laid out in Section 7.2.9.

Because of the uncertainty regarding the need for new facilities at Halepōhaku related to managed access and visitor experience, these design guidelines are general in nature.

7.5 GUIDELINES APPLICABLE TO ROADWAY, UTILITY DEVELOPMENT, AND SIGNAGE: ALL AREAS

As emphasized throughout this Master Plan, little new development is envisioned over its 20-year term. Because of that, only a small amount of roadway, utility, and other work is envisioned. The design of such improvements, as needed, will be in keeping with similar existing facilities, with changes made only where needed to comply with new regulatory requirements or then-current codes.
There is no doubt the existing visitor center is inadequate in size and capacity to fulfill the need for enhanced visitor education and enjoyment, both cultural and scientific.

I see no uncertainty regarding the need. Pre-pandemic visitor experiences demonstrated the need.
7.5.1 ROADWAYS

To the extent practicable, roadway maintenance, repairs, and restoration will be accomplished without the use of extensive cut slopes or fill and with minimal change to the road right-of-way. Road improvements will be designed to maintain the character and functionality of the existing roads. Road capacity will not be increased unless necessary to address access issues and public safety. Wire style guardrails, like existing guardrails in the summit region, will continue to be used.

7.5.2 UTILITIES

Due to radio frequency interference concerns, limited telecommunication services are present in the summit region. These services pre-date radio astronomy on Maunakea and are limited to emergency response purposes, but the enhanced communications capabilities that will be needed during the term of this Master Plan can be provided simply by upgrading equipment within existing buildings.

The existing electrical service is adequate for all the existing facilities. The upgrades to the electrical power system needed to accommodate the development of the TMT project on Astronomy Site 13 have been permitted by the BLNR as part of CDUP-3568, and it is assumed that they will be installed when that facility is constructed. All power lines will be placed underground. Accessory utility structures will be screened or designed to blend into the natural terrain using surface treatments and/or finish colors.

7.5.3 SIGNAGE

The Maunakea Sign Plan was developed in accordance with Management Action EO-4 of the CMP. The plan provides guidance for the placing and maintenance of permanent and temporary external signs on UH Managed Lands on Maunakea. This Master Plan is intended to ensure that signage does not exceed the lowest level necessary and to comply with the CMS policies, Conservation District Rules, and other applicable laws and policies on signage. To help implement the signage plan, CMS maintains an inventory of all signs. The inventory, which includes all permanent signs, includes the following for each sign: (i) a photograph of the sign; (ii) the location of the sign (GPS coordinates); and (iii) the category of the sign as identified in the Sign Plan.

The Maunakea Sign Plan establishes guidelines for the following broad categories:

- Traffic Control Devices. The plan calls for signs, markings, and other devices used to regulate, warn, or guide traffic on roads or highways to follow the guidance contained in the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).45

- “Do Not” Signage. Signage in this category provides information on prohibited activities such as alcohol consumption, tampering with historical sites, littering, or hiking off-trail.

45 When MUTCD guidance is unavailable or does not address circumstances on Maunakea, the U.S. Forest Service “Sign and Poster Guidelines for the Forest Service” standards are to be consulted.
• **Health and Safety Signage.** This category includes signage in the summit area to reinforce awareness of safety issues and hazards (e.g., speeding, using 4-wheel drive and low gear, underage children, pregnant women and persons in poor health, proper clothing, etc.). Health and safety signs or information posters at the VIS are in English, Hawaiian, and Japanese languages and include universal symbols for health and safety issues.

• **Interpretive Signs.** This category includes: (i) trail markers for primary trails; (ii) signage alerting people to areas of sensitive cultural and natural resources and instructing them to stay on trails; and (iii) educational signage providing information to the visitor on what they are seeing.

The *Maunakea Sign Plan* calls for signs to be made from materials that can withstand severe weather (e.g., wind, snow, sun) and to use traditional Hawaiian place names and, whenever possible, include the Hawaiian language along with English. It also contains specific guidance for any sign that directly or indirectly identifies a cultural site, providing that such signs will be considered only after consultation with the Kahu Kū Mauna Council and the State Historic Preservation Division (SHPD).

The *Maunakea Sign Plan* includes several other relevant provisions, including requirements that:

- Signs be designed to convey a simple, clear message that is appropriate to the user setting.
- Signs, even temporary in nature, be professionally printed and installed.
- Unnecessary signs be removed.
- All signs be designed and installed to withstand sustained 120 mph winds, be resistant to fading from intense solar radiation, and have a finish that is resistant to the abrasion caused by wind-blown cinder.
- Visitor information signs have a brown background with white or yellow lettering and use pictograms when possible, excluding interpretive and wayside exhibits.

Finally, the plan provides detailed guidance regarding the installation and maintenance of signage within the management area. Specific provisions include the following:

- A requirement that no permanent signs be installed without prior approval by CMS (and in some cases DLNR).
- A ban on the routine installation and use of temporary barriers and signs except for emergencies or unanticipated public safety purposes.
- Diligent maintenance of all installed signage. This includes: (i) regular inspection of all signs; (ii) speedy repair or replacement of vandalized, damaged, or missing signs; (iii) keeping signs free of vegetation to maintain visibility; (iv) reviewing sign content annually to ensure continued relevance and accuracy; and (v) reuse of materials from obsolete, damaged, or surplus signs whenever possible.

In addition to these *Maunakea Sign Plan* guidelines, signs should be bilingual (i.e., English and Hawaiian) and incorporate iconography to the extent appropriate. This especially applies to the interpretive signs.
7.6 EXEMPT FACILITIES

The construction of structures intended and used for cultural practices, e.g. ahu and other pōhaku structures resembling historic sites, may be subject to Conservation District Rules and other land use regulations. Components of the CMP address cultural practices, but no design guidelines in this Master Plan apply to such structures or facilities.
8 MASTER PLAN ADOPTION, EFFECTIVENESS, AND FUTURE AMENDMENTS

The UH BOR adopts this Master Plan to guide land use decisions by UH in the UH Maunakea Lands. It is intended to provide policy-level guidance and criteria to UH decision-makers. This is not a regulatory document. This Master Plan shall be interpreted and implemented so that it is consistent with applicable laws and agency regulations which shall prevail if there is a conflict.

It is anticipated that this Master Plan will not be amended during its 20-year life because (i) it will not need to be updated as individual projects advance through the project review and approval process and are developed, (ii) it includes, but it not limited to, the land uses most likely to be considered over the life of this Master Plan, and (iii) land uses not specifically identified in this Master Plan can be proposed, approved, and developed under the process adopted in this Master Plan, without amending this Master Plan. If specific terms and procedures require an amendment of this Master Plan, proposed amendments would follow the Type B proposal review process (Section 6.6.2, Figure 6-7) with the amendment proponent serving as proposal proponent. Thereby, the proposed amendment would be considered by the advisory bodies, including KKM, EC, and MKMB, where public input is heard. Approval would advance beyond the CMS ED to the UH Hilo Chancellor, then UH President, and lastly the BOR, where public input is again heard.

This Master Plan replaces and supersedes past plans adopted by UH related to Maunakea, including the *Mauna Kea Science Reserve Master Plan*, adopted by the UH BOR on June 16, 2000.
9 REFERENCES


Hawai‘i Administrative Rules (HAR) § 13-5-2, *Conservation District*.


University of Hawai‘i

Your references seem heavily skewed towards scientific and economic standpoints—where is your scholarship on the social, cultural, and spiritual contexts of this issue?


University of Hawai‘i at Hilo


*The name of this plan, E Ō I Ka Leo, and its translation was provided by noted Native Hawaiian scholar Larry Kimura, Associate Professor at UH Hilo. The authors express their deep gratitude for this gift.

PREPARED FOR:
University of Hawaiʻi

PREPARED BY:
Planning Solutions, Inc.
Hoʻokuleana, LLC

SEPTEMBER 2021
#001

Posted by **pcross** on **10/25/2021** at **9:13am** [Comment ID: 289]

*Agree: 0, Disagree: 0*

We do not need to add anything more to Mauna Kea, There are enough people fighting against it so why do we not listen to them and protect this sacred Mauna.

#002

Posted by **Amber Needham** on **10/26/2021** at **9:52am** [Comment ID: 426]

*Type: Suggestion*

*Agree: 0, Disagree: 0*

Master Plan testimony

The new UH Mauna Kea Master Plan, though thoughtful in some areas including improvements for community use to already existing structures and areas, still proposes the building of the Thirty Meter Telescope (TMT). Today this remains an undesirable, offensive, oppressive and unnecessary construction project for the well-dug-into mountain, myself and tens of thousands of aloha ʻāina who have stood in protest since 2015 and even prior. The modification/recycling of current telescopes is also a red flag for concern because it is not clear what future construction, further impact on landscape, such actions will entail. As a proposal for management, the authors, boards and committees that are in charge of consideration, must realize the intent of management itself —for sustainability—and the proposed collaboration that this plan frequently references. If this plan is approved, UH will not only have again ignored the collaborator’s (community, people of Hawai’i, especially native Hawaiians) views and concerns, but further disrespected and disengaged with an enormous body of scientists, environmentalists, astronomers, teachers and people of all ages, who are fervently saying “NO” to the building of TMT. A good manager will know when enough is enough. I do not agree with this new master plan and encourage UH to cancel the Thirty Meter Telescope entirely.

#003

Posted by **Diana Radich** on **10/07/2021** at **5:40pm** [Comment ID: 132]

*Agree: 0, Disagree: 0*

Get the thirty meter telescope built. 70% want it and so let's stop pandering to small groups and do what the majority wants. Also, I was a teacher for 30 years here on the Big Island and we know that the first day of school, you need to show the students who is boss for classroom management. Day 1 shut down protestors and stop wasting all this time and money.

#004

Posted by **Anonymous** on **10/20/2021** at **4:31am** [Comment ID: 204]

*Type: Correction*

*Agree: 0, Disagree: 0*
The Hawaiian government is corrupt and the gods will have their revenge for this destruction
APPENDIX A. SUMMARY OF OUTREACH AND CONSULTATION

Summary of Participating Stakeholders

This section summarizes the stakeholders that participated in the review of earlier pre-publication versions of this Master Plan. Their participation typically included (i) reviewing of earlier versions of the entire document, summaries or outlines of the Master Plan, or components of the plan or UH’s governance structure; and (ii) meeting with UH representatives 1 to 3 or more times. Those that participated are summarized in the table below.

Additional stakeholders were contacted and declined to participate. UH also sought to consult with other parties but received no response. Stakeholders and parties who declined or did not respond are not identified.

Stakeholders Who Have Participated to Date

<table>
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<tr>
<th>UH System</th>
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<tr>
<td>David Lassner, President</td>
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<td>Michael Bruno, Provost</td>
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<td>Vassilis Syrmos, VP</td>
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<td>Hawai‘inui‘akea School of Hawaiian Knowledge, Dr. Jonathan Osorio</td>
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<tr>
<td>UH School of Ocean &amp; Earth Science &amp; Technology, Dr. Donald Thomas</td>
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<td>UH School of Travel Industry Management, Dr. Daniel Spencer</td>
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<tr>
<td>UH Hilo Chancellor</td>
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<td>UH Hilo Chancellor’s Maunakea Advisory Committee</td>
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<td>Hanakahi Council</td>
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<tr>
<td>UH Hilo Physics &amp; Astronomy Dept.</td>
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<tr>
<td>Some members of Kualiʻi Council</td>
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<tr>
<td>‘Imiloa</td>
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<td>Scotty Paiva, Rangers</td>
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<td>CMS Team</td>
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<td>MKSS Team</td>
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<td>KKM</td>
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<table>
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<tr>
<th>Astronomy Organizations</th>
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<tr>
<td>UH Institute for Astronomy</td>
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<td>Canada-France-Hawaii Telescope</td>
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<td>Keck</td>
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<td>UKIRT Observatory</td>
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<td>NASA Infrared Telescope Facility</td>
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<td>Subaru Telescope</td>
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<td>Gemini North</td>
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<td>Very Long Baseline Array</td>
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<td>James Clerk Maxwell Telescope</td>
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<td>Submillimeter Array</td>
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<tr>
<td>TMT</td>
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UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion.

I trust UH is doing everything in its power to ensure TMT is built as 20% of TMT’s annual $1M lease rent will go to the Office of Hawaiian Affairs for the benefit of the native Hawaiian population it serves. In addition, $250,000 of TMT’s $1M annual contributions to the THINK fund goes to the Pauahi Foundation, which provides college scholarships exclusively for Native Hawaiian students.

Once completed, TMT will expend about $40 million annually in observatory operations and employ about 140 employees. TMT’s commitment is to fill these positions with as many Hawai‘i residents as possible.

Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!

Please define the term "Maunakea’s cultural landscape". This term should include both historical cultural landscape and our current cultural cultural landscape.
### Elected Representatives
- Office of Sen. Schatz
- Office of the Governor
- Rep. Yamane
- Rep. Saiki
- Rep. Tarnas
- Office of the Mayor

### Federal Agencies
- Army PTA
- Hakalau Forest, USFWS
- US Forest Service, Dept. of Agriculture
- NSF

### State Agencies
- DLNR
- Hawai‘i Tourism Authority
- Department of Hawaiian Home Lands
- HDOT
- DLNR-Division of Forestry and Wildlife, Hawai‘i Island
- Office of Planning
- Mauna Kea Forest Restoration Project
- Mauna Kea Watershed Alliance
- Ahu Moku

### Community Members/Organizations
- PUEO
- Anonymous
- Ross Wilson
- Kepa Maly
- Gerald DeMello

### Commercial Tour Operators
- Super Vacation Hawai‘i
- Arnott’s Lodge & Hiking Adventures
- Taikobo Hawai‘i
- Mauna Kea Summit Adventures
- Hawaii Forest & Trail

### Visitor, Commerce & Economic Development
- Island of HI Visitors Bureau
- Japanese Chamber of Commerce
- Some members of the Hawai‘i Island Economic Development Board (HIEDB)
Adjustments to Master Plan Based on Input Received

The Master Plan has evolved dramatically based on the input received from the stakeholders consulted to date. The following is a summary of some of the more substantial modifications made based on the consultations conducted:

- The Foreword was added.
- The Education Goal and the associated objectives were added (Section 1.4.3) and highlight indigenous learning among other disciplines.
- UH committed to never reusing five of the astronomy sites decommissioned prior to the end of 2033 for astronomy in the future (previously UH had committed to never reusing three of the sites).
- Added that there are limits to the number of decommissioned astronomy sites that UH would consider for the development of non-astronomy facilities. No more than two decommissioned astronomy sites on the summit ridge and one decommissioned astronomy site elsewhere will be considered for non-astronomy facilities such as parking and gathering places.
- UH committed that no professional research astronomy facilities will be proposed at Halepōhaku and that the only telescopes present at Halepōhaku will be the proposed UH Hilo Educational Telescope and portable stargazing telescopes.
- Added a statement that there is some uncertainty regarding whether the TMT project will proceed on Maunakea, and if it does not proceed, this Master Plan will continue to guide UH decisions regarding how to use Astronomy Site 13.
- Adjusted the Phase 1 access management facilities and concept so that, among other things, it includes a kiosk that is staffed during periods of active access management.
- Modified the proposal review process so that, among other things, the UH proposal types are closely aligned with the likely level of Conservation District review and approval the proposal will trigger.
- Clarified the criteria that proposed facilities and developments within UH Maunakea Lands must meet. Added to the criteria that the proposal would need to greatly benefit from the conditions present within the UH Maunakea Lands.
- Added that all facilities within the MKSR will be required to convert to zero-discharge facilities if they are to continue beyond 2033.
- Stated that, beyond its educational purpose, the facilities at Halepōhaku may be available to support conservation actions on Maunakea outside of the UH Maunakea Lands.
I am concerned that this quiet decision was made in response to a small number of stakeholders, and does not represent a balance among the entire population of Hawaii. This decision has economic impacts to the public with a more limited use of the science preserve.
APPENDIX B. SUMMARY OF MISSION, VISION, AND VALUES EXPRESSED IN VARIOUS UH SYSTEM, UH HILO, IFA, AND ‘IMILOA PLAN DOCUMENTS

The following subsections review the mission, vision, and values expressed in plan documents of UH units and programs that either oversee actions on Maunakea, conduct actions on Maunakea, or are otherwise tied to UH’s activities on Maunakea.

UH System

As stated in the BOR Policy (RP) 4.201:

“The primary mission [emphasis added] of the university is to provide environments in which faculty, staff and students can discover, examine critically, preserve and transmit the knowledge, wisdom, and values that will help ensure the survival of present and future generations with improvement in the quality of life.

In carrying out that mission, it is the basic purpose [emphasis added] of the university to afford all qualified people of Hawai‘i an equal opportunity for quality college and university education at both undergraduate and graduate levels.

As the only provider of public higher education in Hawai‘i, the university embraces its unique responsibilities to the indigenous people of Hawai‘i and to Hawai‘i’s indigenous language and culture. To fulfill this responsibility, the university ensures active support for the participation of Native Hawaiians at the university and support vigorous programs of study and support for the Hawaiian language, history, and culture.

Within its unique geographical location, the university will serve as a leader in how it stewards the resources of the islands and the world for the benefit of all. The university shall be a global leader and model for the integration of sustainability throughout its teaching, research, operations, and public service. The university recognizes that an important knowledge base in sustainable island systems resides in the indigenous people of Hawai‘i and all those for whom Hawai‘i is home. The university commits to consult with local cultural practitioners and sustainability experts on best practices in sustainable resource allocation and use for the well-being of our communities, our state, and the world. Critical resources include energy, food, water, land and sea as they are integrated with the relationships of family, culture, community, justice, work, and economy in the present and future.

In addition to this overall mission, RP 4.201 also outlines missions for four sub-units within the University: (i) the University of Hawai‘i at Mānoa; (ii) University of Hawai‘i at Hilo; (iii) University of Hawai‘i West O‘ahu; and (iv) University of Hawai‘i Community Colleges. Two of these, the University of Hawai‘i at Hilo and Hilo Community College, are primarily involved in activities related to Maunakea.
RP 4.201 asserts that “a minimum, the system mission incorporates the vision, purpose, and common values of the university system, emphasizing the fundamental commitment to access and quality.” It emphasizes the importance of respecting and taking advantage of UH’s special advantage and distinction in Hawaiian, Asian, and Pacific affairs. It affirms UH’s commitment to diversity within and among all racial and ethnic groups served by public higher education in Hawai‘i and calls upon the President and the Chancellors to ensure that the unique commitment to Native Hawaiians is fulfilled.46

RP 4.201, lays out minimum considerations that should be included in separate mission statements for the major units of the University system when presented to the BOR for approval. These considerations are fundamental commitments to the following: (i) access to and the provision of quality education; (ii) special advantage and distinction in Hawaiian, Asian, and Pacific affairs; (iii) diversity within and among all racial and ethnic groups served by public higher education in Hawai‘i; (iv) unique commitment to Native Hawaiians; (v) social, cultural, environmental, and economic sustainability in operations; education, research and service; planning, administration, and engagement; and (vi) cultural and community connections.

UH Hilo

The University of Hawaiʻi at Hilo’s (UH Hilo) mission statement (as expressed in Annex I to SPC 18/10) states that:

The University of Hawaiʻi at Hilo primary mission is to offer high quality undergraduate liberal arts and professional programs together with selected graduate degree programs where need warrants and the university has strong expertise. Programs at UHH are intended to include both theoretical and applied research and to benefit Hawai‘i Island and the state through resource centers, community partnerships, continuing education, and distance learning programs by using Hawai‘i’s natural and cultural environment as a learning laboratory for teaching, research, and service activities.

The UH Hilo vision statement is:

We will be acclaimed as a university community that works together across disciplines and diverse perspectives to prepare student scholars to thrive, compete, innovate and lead in their professional lives. We will engage every student in applied learning that links theory with practice in ways that are

46 The policy calls for that commitment to be fulfilled by: (i) providing positive system-wide executive support in the development, implementation, and improvement of programs and services for Native Hawaiians; (ii) encouraging the increased representation of Native Hawaiians at the university; (iii) supporting full participations of Native Hawaiians in all initiatives and programs of the university; (iv) actively soliciting consultation from the Native Hawaiian community and specifically Puko‘a, the system-wide council of Native Hawaiian faculty, staff and students that serves as advisory to the president; (v) providing for and promoting the use of the Hawaiian language within the university; (vi) providing a level of support for the study of Hawaiian language, culture and history within the university that honors, perpetuates and strengthens those disciplines into the future; (vii) encouraging Native Hawaiians to practice their language, culture and other aspects of their traditional customary rights throughout all university campuses and providing Hawaiian environments and facilities for such activities; and (viii) addressing the education needs of Native Hawaiians, the State of Hawai‘i, and the world at large, in the areas of Hawaiian language, culture, and history through outreach.
incorrect character is used for the 'okina in "Hawai'i's"
collaborative with the distinctive natural and cultural environments of Hawai‘i and promotes responsible participation in a global society.\textsuperscript{47}

The UH Hilo values statement is:

\textit{We value diversity and strive to be student-focused and relationship-oriented. We seek to become more collaborative, intentional, and innovative. We believe that UH Hilo’s diversity offers strength, but that it is only meaningful if we focus on equity, removing barriers to opportunity, fair treatment, and access for all.}\textsuperscript{48}

\textbf{‘Imiloa}

Like CMS, ‘Imiloa Astronomy Center of Hawai‘i’s (‘Imiloa) is a program organized under the UH Hilo Chancellor. ‘Imiloa’s mission is “to honor Maunakea by sharing Hawaiian culture and science to inspire exploration.”\textsuperscript{49}

‘Imiloa’s vision is “Imiloa is a place of life-long learning where the power of Hawai‘i’s cultural traditions, its legacy of exploration, and the wonders of astronomy come together to provide inspiration and hope for generations.”\textsuperscript{50}

As expressed on its website (https://imiloahawaii.org/aboutimiloa), “‘Imiloa means to seek far and is the Hawaiian word for both explore and explorer. Through a Hawai‘i lens, ‘Imiloa explores the people of Hawai‘i’s place in the genealogy of the universe and continually seeks, learns, and adapts to the islands’ ever-evolving environment that inspires discovery and innovation through the following three core values:

- “\textit{Kama‘āina.} We honor our relationship to land, sea, and sky and share this connection through personal and enlightened hospitality.

- “\textit{Na‘auao.} We steward our collective knowledge and wisdom as provisional resources that illuminate our community today and tomorrow.

- “\textit{Hanakahi.} We work together, drawing upon individual strengths and talents to harness our collective synergy and advance the mission of ‘Imiloa.”

\textbf{University of Hawai‘i Community College at Hilo}

As expressed by the Office of Vice President for Community Colleges,\textsuperscript{51} the special mission of the UH Community Colleges within the overall mission of the University of Hawai‘i, is to:

\textsuperscript{47} https://hilo.hawaii.edu/strategicplan/2021-31/vision.php
\textsuperscript{48} https://hilo.hawaii.edu/strategicplan/2021-31/clarity.php#core
\textsuperscript{49} https://imiloahawaii.org/aboutimiloa
\textsuperscript{50} https://imiloahawaii.org/aboutimiloa
\textsuperscript{51} http://uhcc.hawaii.edu/ovpcc/mission
• Broaden access to postsecondary education in Hawaiʻi, regionally, and internationally by providing open-door opportunities for students to enter quality educational programs within their own communities.

• Specialize in the effective teaching of remedial/developmental education, general education, and other introductory liberal arts, pre-professional, and selected baccalaureate courses and programs.

• Provide the trained workforce needed in the State, the region, and internationally by offering occupational, technical, and professional courses and programs which prepare students for immediate employment and career advancement.

• Provide opportunities for personal enrichment, occupational upgrading, and career mobility through credit and non-credit courses and activities.

• Contribute to and stimulate the cultural and intellectual life of the community by providing a forum for the discussion of ideas; by providing leadership, knowledge, problem-solving skills, and general informational services; and by providing opportunities for community members to develop their creativity and appreciate the creative endeavors of others.

• Build upon Hawaiʻi’s unique multi-cultural environment and geographic location, through efforts in curriculum development, and productive relationships with international counterparts in Asia and the Pacific in ways that will prepare their students for the global workplace.

Institute for Astronomy (IfA)

The Institute for Astronomy (IfA) manages the Haleakalā Observatories on Maui and the Maunakea Observatories on Hawaiʻi Island and carries out its own program of fundamental research into the Sun, planets, and stars, as well as interstellar matter, galaxies, and cosmology. The IfA reports to the Office of the Provost at the University of Hawaiʻi at Mānoa. It has close links with the UH Mānoa Department of Physics and Astronomy through the astronomy graduate program, and IfA faculty members teach many introductory astronomy courses on the Mānoa Campus.

The IfA’s mission statement is as follows:

_The primary mission of the Institute is the production of the highest possible quality of astronomical research; world leadership in the development of ground- and space-based instrumentation; the development and stewardship of the Mauna Kea and Haleakala Science Reserves; and provision of facilities and professional guidance to graduate students of astronomy to enable them to meet curriculum requirements and to gain hands on experience in current astronomical research techniques._

Its stated goals are as follows:

---

Currently, how many prospective personnel are interested in this program that are native Hawaiian descent? Why do you consider desecration of land and it's cultural importance that we need to live less important than this employment opportunities you are promoting? You can pursue your intellectual knowledge without desecrating lands that need to be cared for and not destroyed.
Explore the origin and nature of the Universe, and of the galaxies, stars, planets, and other matter that it contains.

Develop new technologies for use in ground-based and space-based observatories.

Spread the understanding of astronomy through our graduate program, through undergraduate courses, and through public education.\(^53\)

These goals collectively describe a vision that its work enhances human understanding of the universe and broadens public understanding of the benefits that stem from the research and technological advancements that they contribute to.

**CMS Management Functions**

The following mission is included in the Comprehensive Management Plan (CMP) approved by the BLNR.

*To achieve harmony, balance, and trust in the sustainable management and stewardship of the Mauna Kea Science Reserve through community involvement and programs that protect, preserve, and enhance the natural, cultural and recreational resources of Mauna Kea while providing a world class center dedicated to education, research, and astronomy.*

\(^53\) [http://www.ifa.hawaii.edu/ifa2/goals.shtml](http://www.ifa.hawaii.edu/ifa2/goals.shtml)
APPENDIX C. BOARD OF REGENTS RESOLUTIONS RELATED TO MAUNAKEA
To Further Act on Items Relating to Maunakea Management and Amend Board of Regents Resolution 19-03

WHEREAS, at a special meeting on November 6, 2019, the Board of Regents (“Board”) adopted Resolution 19-03, To Act on Items Relating to Maunakea Management, which directed University Administration to accomplish certain actions with specified timeframes, including the decommissioning of five (5) observatories; engaging in community outreach; developing historical, environmental, and cultural education programs; incorporating uses by Native Hawaiian cultural practitioners within the Maunakea Master Plan update; working with the Department of Hawaiian Home Lands to improve infrastructure and access to Maunakea; and improving the University of Hawai’i’s (“University”) management function, structure, and operations;

WHEREAS, the Board appointed a permitted interaction group to review and investigate proposed changes to the Maunakea Master Plan and Comprehensive Management Plan (collectively, “Plans”), to follow up on the requested actions in Board Resolution 19-03 and identify any other critical issues pertaining to the Plans, and make related findings and recommendations to the Board;

WHEREAS, the Board concurs with the findings and recommendations of the permitted interaction group, and formally expresses and reiterates the University’s commitment to accelerated efforts to strengthen its cultural stewardship of Maunakea, to astronomy as a cornerstone of excellence for the University and a significant contributor to the island and state economies and workforce, to maintaining high quality environmental stewardship of Maunakea, and to advocate for a management structure that is inclusive, efficient, and protective of all resources on Maunakea; and

WHEREAS, the Board recognizes that the University’s proper stewardship of Maunakea is a long-term, complex, and challenging process, having its own timeframe, due in part, to anticipated and unanticipated factors outside of the University’s control; and

WHEREAS, the Board remains firmly committed to accomplish the completion of all outstanding actions set forth in Board Resolution 19-03 at the earliest possible date.

NOW, THEREFORE, BE IT RESOLVED that Administration be directed to take the following actions:

1. Provide progress updates to the Board every six months regarding:
   a. Progress made towards accomplishment of action items set forth in Board Resolution 19-03
   b. The restructuring plan adopted by the Board in August 2020

2. At a future 2021 Board meeting, provide a comprehensive presentation on astronomy in the State as well as on Maunakea, and related academic programs, to be followed by a Board discussion on the role of the University in astronomy in Hawaii and the world.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the timelines for action specified in Board Resolution 19-03 are amended as follows:
1. Two (2) observatory sites known as the Caltech Submillimeter Observatory (CSO) and Hōku Keʻa Observatory (HKO) shall be decommissioned; assuming no permitting, weather, and access issues the target date for CSO decommissioning is no later than April 30, 2023, and HKO no later than August 31, 2024. For purposes of this resolution, the term “decommissioning” shall mean the complete removal of all man-made structures at each respective site bringing each site to as close as feasible to its natural state prior to construction.

2. To ensure the prompt availability of a teaching telescope for the University of Hawai‘i at Hilo Physics and Astronomy Program, a new educational telescope facility shall be established on already developed land at Hale Pōhaku or elsewhere with a target date for permitting, assuming no legal issues, no later than May 30, 2024, and the project being awarded for construction, subject to funding, no later than November 30, 2024. The Board of Regents shall support the funding of the planning, design, and construction of the new educational facility.

3. In collaboration with the Center for Maunakea Stewardship, the ‘Imiloa Astronomy Center shall develop and implement a suite of educational programs regarding Maunakea including but not limited to Native Hawaiian culture, history, environmental, and biological considerations designed for tour guides and drivers, employees, contractors, recreational users, scientists and observatory workers, and visitors, as required by the Management Plans, by September 30, 2021, with implementation targeted to commence no later than December 31, 2021.

Adopted by the Board of Regents
University of Hawai‘i
May 20, 2021
RESOLUTION

19-03

To Act on Items Relating to Maunakea Management

WHEREAS, the Board of Regents believes and acknowledges that Maunakea holds a special and important place in the history, culture, and hearts of the peoples of Native Hawaiian ancestry and all of Hawaii; and

WHEREAS, Maunakea has become a symbol of Native Hawaiian self-determination; and

WHEREAS, the Board of Regents recognizes that the University of Hawai‘i (“University”) has been criticized for past and present management of Maunakea; and

WHEREAS, the Board of Regents realizes that any mismanagement of Maunakea is hurtful and disrespectful to the sanctity and inviolability of this place to Native Hawaiians and others; and

WHEREAS, the Board of Regents in response to past criticisms, has clarified its roles, duties, and responsibilities beginning with the adoption of the Mauna Kea Science Reserve Master Plan (2000), Mauna Kea Comprehensive Management Plan UH Management Areas (2009), A Cultural Resources Management Plan for the University of Hawai‘i Management Areas on Mauna Kea (2009), Natural Resources Management Plan for the UH Management Areas on Mauna Kea (2009), Public Access Plan for the UH Management areas on Mauna Kea (2010), and Decommissioning Plan for the Mauna Kea Observatories (2010) (collectively hereinafter referred to as “Management Plans”); and

WHEREAS, under said Management Plans, the Board of Regents was principally responsible to fulfill and to carry out all of the recommendations, obligations, and duties promulgated under said Management Plans; and

WHEREAS, the Board of Regents takes its responsibility seriously and hereby affirms its commitment to follow through with the recommendations made in the Management Plans to better manage the impacts of the astronomy facilities and operations upon the natural environment, cultural resources, recreational resources, educational resources, and upon the broader community; and

WHEREAS, the Board of Regents has determined that there remain unmet responsibilities and ongoing compliance issues that have delayed completion of certain recommendations and requirements under the Management Plans; and

WHEREAS, THE Board of Regents therefore desires to remove any delays in compliance and to complete ongoing responsibilities in an accelerated and expeditious manner.

NOW, THEREFORE, BE IT RESOLVED that University of Hawai‘i President David Lassner, University of Hawai‘i at Hilo Chancellor Bonnie Irwin, University of Hawai‘i Vice President for Research and Innovation Vassilis Syrmos, Maunakea Support Services (MKSS), Institute for Astronomy (IfA), Office of Maunakea Management (OMKM), and any other necessary, related management or operation entity be directed to cause the following action items to be accomplished in the timeframes as specified herein below:

1. Two (2) observatory sites known as the Caltech Submillimeter Observatory and Hokukea site shall be decommissioned no later than December 31, 2021. For purposes of this resolution, the
term “decommissioning” shall mean the complete removal of all man-made structures at each respective site bringing each site to as close as feasible to its natural state prior to construction. These will be the first two of five observatories to be decommissioned.

2. A schedule of decommissioning of these two sites will be laid out on a Gantt chart or other similar visual schedule for each of the above sites indicating function and timeframe for each major step in the decommissioning process to achieve completion on or by December 31, 2021. The schedule for decommissioning shall be presented to the Board of Regents on or before its February 2020 meeting.

3. A new educational telescope facility for the University of Hawai‘i at Hilo shall be established on already developed land at Hale Pohaku or elsewhere, as soon as can be permitted, with a target date no later than December 31, 2021, to ensure the prompt availability of a teaching telescope. The Board of Regents shall support the funding of the planning, design, and construction of the new educational facility.

4. On or by December 30, 2025, a determination will be made on the decommissioning of three (3) additional observatory sites based upon compliance with existing or future permits or governmental approvals. If decommissioning is required, the three (3) observatory sites will be identified and reported to the Board of Regents by January 2026.

5. In collaboration with OMKM and MKSS, the ‘Imiloa Astronomy Center shall develop a suite of educational programs regarding Maunakea including but not limited to Native Hawaiian culture, history, environmental, and biological considerations designed for tour guides and drivers, employees, contractors, recreational users, scientists and observatory workers, and visitors, as required by the Management Plans, by August 31, 2020. OMKM shall report to the Board of Regents on its plans and progress to implement said educational programs at its February 2020 meeting. Administration shall make a budget request during the 2020 legislative session to fund this action item.

6. Administration shall make a CIP request during the 2020 legislative session for monies to plan, design, and construct an educational center at Hale Pohaku and/or another appropriate site on Maunakea that will educate visitors on cultural, environmental, and astronomy related topics relating to Maunakea.

7. The Maunakea Master Plan update will accommodate uses by Native Hawaiian cultural practitioners.

8. Following consultation with the Maunakea Management Board, Kahu Kū Mauna, ‘Imiloa Astronomy Center, existing Maunakea Observatories, and other community stakeholders, a reorganization and restructuring plan shall be presented to the Board of Regents as to all advisory, operating, and funding bodies involved in the management of Maunakea by April 2020. The purpose of the plan is to improve operations and management and make it more efficient, effective, and transparent. The analysis will include consultation with the Maunakea Management Board, Kahu Kū Mauna, and appropriate members of the Hawaii Island community. The reorganization and restructuring plan shall be embodied into a governance document that is approved by the Board of Regents.
9. As part of the reorganization and restructuring plan, an in-depth analysis will be done to determine whether the management of the Maunakea Science Reserve would be better served if transferred to a governmental authority or other third party entity, or through alternate management mechanisms (e.g., conservation easement agreement, etc.). The analysis will include consultation with the Maunakea Management Board, Kahu Kū Mauna, and appropriate members of the Hawaii Island community. The results of this analysis, including input from the Maunakea Management Board, Kahu Kū Mauna, ʻImiloa Astronomy Center, existing Maunakea Observatories, and other community stakeholders, will be presented to the Board of Regents by April 2020.

10. The University will cooperate with the Department of Hawaiian Home Lands (DHHL) to resolve any outstanding issues relating to the roadway infrastructure on Maunakea and will seek opportunities to assist DHHL in its efforts to fulfill its trust duties and responsibilities on the use of its Maunakea lands.

11. As permitted by law, the University should pursue a partnership with an appropriate agency or organization whose primary beneficiary is the Native Hawaiian community, to operate commercial shuttles and tours on Maunakea.

Adopted by the Board of Regents
University of Hawaiʻi
November 6, 2019
Affirming Commitment to the Collaborative Stewardship of Maunakea’s Cultural, Natural, Educational and Scientific Resources

WHEREAS, the Board of Regents believes that Maunakea can and should be a global model that provides inspiration, harmony and peaceful co-existence among culture, education, the environment and scientific discovery; and

WHEREAS, the Board of Regents for the University of Hawai‘i embraced the university’s commitment to its responsibilities to Maunakea beginning with the adoption of the Maunakea Science Reserve Master Plan in 2000, the Maunakea Comprehensive Master Plan, Cultural Resources Management and Natural Resources Management Plans in 2009, and the Public Access and Decommissioning Plans in 2010; and

WHEREAS, the board and the university administration also aspire for the university to become a model indigenous-serving university and have committed to principles of sustainability across its mission; and

WHEREAS, the board now hereby affirms the commitment of the university to fulfill its obligations under the plans that have been approved, as well as its broader commitment to the community at large; and

WHEREAS, the board wishes to additionally acknowledge the dedicated work and commitment of the Office of Maunakea Management, the Maunakea Management Board, and the Native Hawaiian Kahu Kū Mauna Council, on behalf of the University of Hawai‘i and the Board of Regents; and

WHEREAS, subsequent to the adoption of the various plans, and with the understanding that collaborative stewardship will continue to be prioritized on all Maunakea lands, the university has now agreed to return approximately 10,000 acres of land on Maunakea that it currently leases that is not used for astronomy, to the State of Hawai‘i; and

NOW, THEREFORE, BE IT RESOLVED that the university intends to return the 10,000 acres to the State of Hawai‘i if possible and pursue a new lease or land tenure for the reduced acreage that will support the continued viability of astronomical research and education in the State; and

BE IT FURTHER RESOLVED that the university work with the State, County of Hawai‘i, Native Hawaiian organizations, and the broader community to evolve collaborative and coherent management and stewardship plans that are consistent with the Comprehensive Management Plan, and that are supported by appropriate administrative rules; and
BE IT FURTHER RESOLVED that the university make it a priority, including through additional financial support, to meaningfully increase the education and engagement of Native Hawaiian students, Hawai‘i Island residents, and residents of the State of Hawai‘i in the areas of astronomy, celestial navigation and exploration; and that such initiatives include an active educational and outreach program that highlights indigenous knowledge as well as enhanced student access to and utilization of Maunakea-based astronomical resources in the field; and

The Board of Regents, through this Resolution, hereby affirms its commitment to the collaborative stewardship of Maunakea’s cultural, natural, educational and scientific resources, and directs the university to move forward to collaboratively build a global model of harmonious and inspirational stewardship that is befitting of Maunakea.

Adopted by the Board of Regents
University of Hawai‘i
August 24, 2017
APPENDIX D.  PROCESS TO ESTABLISH WHICH ASTRONOMY FACILITIES MAY CONTINUE AFTER 2033

In addition to the two facilities (CSO and Hōkū Keʻa) for which decommissioning notices have already been submitted, the VLBA Antenna (Astronomy Site 14) is also identified to be decommissioned as required by Condition 11 of the TMT CDUP. This leaves the following ten facilities with the potential to continue beyond 2033: Subaru, Keck I, Keck II, IRTF, CFHT, Gemini, UH 2.2, UKIRT, JCMT, and SMA. Of these, the 9-operating facility restriction discussed previously means that with the TMT occupying Astronomy Site 13 and taking up one of the slots, only eight can continue; two will need to be decommissioned by the end of 2033.

At the appropriate time, UH will send a letter to each of the facilities that are not both owned and operated by UH asking them whether they wish to continue beyond 2033 or are committed to decommissioning by that date. The letter will be addressed to the official representative of the organization which owns and/or operates the facility. In most cases this would be the agency that entered the current sublease. The letter will spell out the expected terms that would apply if their facility were it to continue to operate after 2033. The organization will be given ample time to respond, probably at least a year. On the same time scale, UH would decide which of the UH-owned and operated facilities (UH 2.2m and UKIRT) it wishes to have continue beyond 2033.

The appropriate time for sending the letter will be after the relevant terms of the new land authorization that UH is seeking are known, along with whatever other requirements might apply, some of which could derive from this Master Plan. UH is already consulting with the non-UH facilities on the terms that might be applicable in the event of a new agreement, and it is expected that consultation and negotiation will be ongoing up until the time that the facility-owner responses to UH are due. Simultaneously, UH will be consulting with advisory bodies, stakeholder groups, and the wider community and will consider the input it receives from these groups and individuals in its decision-making process.

During the period leading up to the response deadline, two of the organizations might merge and support only one of their facility’s operations beyond 2033. It is also possible that another organization might propose to take over a facility that the current operating organization decides not to support beyond 2033. These types of arrangements could also occur at other points in the process described in this section.

Once the responses have been received from the organizations responsible for all of the facilities and UH has made its own decisions, it will be known whether or not there are more than nine facilities, including TMT, that wish to continue beyond 2033. If there are not, then UH would enter into the new agreements with all the non-UH-owned facilities that have expressed their intent to continue operating. The organizations responsible for the facilities that will not be continuing would begin the decommissioning process in time to complete it by the end of 2033.

If the organizations responsible for more than nine facilities indicate a desire to continue, UH will develop and implement a process that it will follow to determine which facilities may continue beyond 2033. Based on the goals and objectives described in this Master Plan, UH will propose alternative facility combinations for consideration, with each alternative consisting of nine facilities drawn from the up to 11 in the MKSR that may indicate an interest in operating beyond
If the UH lease is up in 2033, why are you planning to continue astronomy?

The primary stakeholders, specifically the indigenous community, should be explicitly mentioned here rather than vague terms such as "wider community", especially in light of stated values in the intro.
2033. UH will also propose a decision-making process that will include consultation with the MKO’s, with appropriate advisory groups, and with the wider community. This process will include consideration of the scientific value of both the facility and its site, environmental considerations, and community interests. One aspect of advisory group and community consultation is seeking input on which of the Astronomy Sites are the most culturally important; such input will be one factor that informs UH’s process to identify which facilities will continue operation beyond 2033. It is likely that UH will also propose a “blue-ribbon” committee be established to provide an independent expert assessment of the relative merits of the various facility combinations. Depending on the circumstances, UH may ask the committee for a recommendation in addition to the assessment. The selection process will end with a decision by UH on which facilities will continue after 2033. UH hopes to have this decision made by the end of calendar year 2025, to allow sufficient time for decommissioning under the Decommissioning Plan process.

UH’s target date for having new agreements in place with the continuing non-UH facilities is January 1, 2027. Facilities not continuing would be expected to submit decommissioning NOI’s by that date if they had not yet done so. This will allow seven years for them to complete the decommissioning process. Those Astronomy Sites that are decommissioned will not be available for future astronomy use, including recycling. As discussed in Section 4.2 of this Master Plan, some non-astronomical use of certain astronomy site may be considered during or after the decommissioning process.
I wish to express my strong support for the past and current efforts made by UH in advancing science in general and astronomy in particular, in ways that are respectful of cultural issues. I hope that the Master Plan is accepted, and implemented, and that as an extension of the Plan, the TMT continues to grow and develop.

NO TO TMT! KU KIA'I MAUNA!

UH already hires world-class astronomers and shouldn't need to consult with outside groups on what it needs. Please leave this decision to the astronomy departments at UH Hilo and Manoa.
9 INPUT RECEIVED VIA KONVEIO COMMENT FORM
Submittal Number: 1
Date submitted: 9/14/2021
Name: Jacob Schneider
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values: Build TMT
Comments on Goal and Objectives: Build TMT
Comments on Strategies: Build TMT
Comments on Halepōhaku facilities: Build TMT
Comments on management and stewardship facilities in the MKSR: Build TMT
Comments on education, research, and astronomy facilities in the MKSR: Build TMT
Comments on access management facilities: X
Comments on proposal review process: Build TMT
Comments on design guidelines: Build TMT
General/Other comments: Build TMT
Comments on Halepōhaku facilities: Step 1: Remove all the illegal campsites at the intersection of Mauna Kea Access road. Prosecute those that have set-up camps and have them restore the area to its original condition.
Step 2: Restore Hale Pohaku visitor center to accommodate all visitors with restrooms, picnic tables, nighttime stargazing, viewing of 'Silversword' plants and weekend tours to the summit.
Step 3: Restore volunteer programs for star gazing, trail cleanup and guided tours.
Step 4: Limit commercial tours to 10 people/tour and set time schedule that will limit number of tour vehicles in a particular area at any given time.
Submittal Number:  3
Date submitted:  9/14/2021
Name:  Susan Hultberg
Organization:  
City, State, Zip:  Hilo, HI  96720

Comments on Missions, Vision, and Values:  The UH should NOT be in charge of Mauna Kea. UH has proven to be unresponsive to the input of The Hawaiian people. It is the responsibility and right of the Kanaka Maori. No plan administered by UH will be honored; UH has "Mission", but entirely lacks "Vision" and has no "Values" acceptable to Hawaii's people.

Comments on Goal and Objectives:
Comments on Strategies:

Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments:  Get UH off the mauna. They have proven themselves to be disastrous stewards. The poet Maya Angelou said, "When someone shows you who they are, believe them the first time."
Submittal Number: 4
Date submitted: 9/14/2021
Name: Carl Shaad
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines: I am not native Hawaiian or culturally opposed to the proposed E O I Ka Leo plan. I will let others comment on the cultural significance of Maunakea. However, I believe there should be much more respect given to the natural beauty of the mountain and environment. Therefore, I am opposed to building more astronomy facilities on Maunakea that look just as visually obtrusive as the existing ones. A huge white dome may look like a thing of beauty to many astronomers, but to the rest of us, it is just like an ugly pimple on the end of one's nose.

I understand that the reason for a reflective color is to minimize the heat build up inside the dome during daylight hours. But a well-designed temperature control system would do better than any paint application. And to minimize the size and cost of an air conditioning system, there are alternative colors and pigments that can achieve whatever additional cooling effect is required. A blanket statement requiring the "rotating dome and shutter... have a reflective aluminum-like coating" (Sec. 7.2.5.1) is unacceptably broad. I'm sure that the scientific community, with a little experimentation, can come up with a less-obtrusive color scheme. If not, I know some talented theme park painting experts that can effectively make visual obtrusions "disappear" through techniques like mottling and dabbing to make the facility look almost exactly like its surroundings when viewed from a distance.

Concerning the TMT in particular, I have never seen an artist's rendering of what that 18-story facility would look like from the ground. I believe the public has the right to know how it would appear if it is constructed as proposed. The usual media-release pretty-picture painting that depicts the TMT from a height above the top of the mountain is a gross misrepresentation, since no one will ever actually view it from up there. Please be more transparent in the visual aspect of the TMT and all other facilities. Regardless of cultural beliefs, most residents would not think that a humongous telescope is an appealing addition to a beautiful mountain.

Mahalo.

General/Other comments:
Submittal Number:  5
Date submitted:  9/15/2021
Name:  Dana Keawe
Organization:  self
City, State, Zip:  Pahoa, HI  96778
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:  I am against and DO NOT support a telescope being moved to Halepohaku.
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Until All the requirements are met to decommission All 5 telescopes there should be NO new telescopes built. No telescope should be built or moved to Halepohaku!
Follow Canary Islands lead and reject TMT being built here on Mauna a Wakea!
Submittal Number: 6
Date submitted: 9/19/2021
Name: Isaac Harp
Organization: Makani Hou o Kaloko-Honokohau
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I would think Native Hawaiians would want to honor their ancestors with a telescope. A telescope is used to continue to seek information about the universe about origins of life. The intrepid peoples who sought a new life used the stars and moon to help guide them. It would seem that a telescope would honor their beginning on the Hawaiian archipelago. Honor the peoples who made the voyage. Do the current Hawaiian mariners who go to sea honor the original voyagers by their efforts to use the stars, sky to guide their way? Boats are built to make sea voyages, the use of astronomy honors the celestial bodies used to guide those boats. An observatory is the vessel needed to continue the work of their forefathers.
Submittal Number: 8
Date submitted: 9/27/2021
Name: Levi Gerlitzky
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Please continue to allow free & open access to the mountain for locals and visitors alike.
Please permit construction on the mountain for larger telescopes to further scientific research which is also great for the economy and tourism.
Thank you
Submittal Number: 9  
Date submitted: 9/29/2021  
Name: Jennifer Shimabukuro  
Organization: SMS Research  
City, State, Zip: Honolulu, HI 96813  

Comments on Missions, Vision, and Values: I believe that the approach should be based on respecting each perspective of all parties involved, and I think a peaceful solution would come from the commonalities of each party involved.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 10
Date submitted: 10/1/2021
Name: Tara Rojas
Organization: 
City, State, Zip: ,

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: Please address this during your livestream Wed. Oct 6th 5-7pm:

UH has grossly mismanaged Mauna Kea for 50+ yEars. Fifty plus years. Documented in reports. Destroyed the conservation district designated and STOLEN Hawaiian Lands of Mauna Kea. This needs to STOP NOW.

Just as the Military Destroyed and continues to destroy HAWAIIAN LANDS and wants to "negotiate" extended their unheard of 65 years for $1 lease promising to "take care" of the land which again was documented and stated in a Court Ruling that they did indeed fail in their duty to care for the land and that they indeed did contaminating and destroy the land...

...now you University of Hawaiʻi have done, continue to do, and are asking to keep doing the same: mismanaging and destroying and unjustly and discriminatorily occupying stolen land that DOES NOT BELONG TO YOU - NEITHER TO HAVE NOR TO MANAGE.

This "new" Mauna Kea Management Plan is an insult - added on to the 50+ yEars of hewa mismanagement and added on to the 128 years of racism and hewa against HAWAIIANS IN THEIR OWN HOMELAND.

RETURN THE LAND TO THE HAWAIIANS, UH!

MY QUESTION FOR OCT. 6TH 2021 FORUM: WHEN WILL YOU TAKE "NO" FOR AN ANSWER?
Comments on Halepā in our ability to respect our wishes to protect our sacred Mountain from exploitation and development.

Comments on education, research, and astronomy facilities in the MKSR University

Comments on Strategies: Its resistance toward Native Educatio... of International youth efforts in partnership with the United Nations through the organization Heirs 2 Our Oceans. As a Kānaka maoli and global leader, I would like to state that I am opposed to the Draft Master Plan as it simply solidifies efforts to desecrate a sacred space to accommodate tourists and the industrialization of conservation zoned lands for astronomical purposes. The actions and proposals by the University are continuously done without the consent of Kānaka Maoli. These are efforts to strengthen the University’s grip and dictatorship over Mauna Kea, a wahi kapu, sacred space for our people. I would defer my opinion on conservation efforts on the summit and its slopes to the kupa ʻāina and noho papa that reside on the island of Hawaiʻi. Therefore the stances of Pua Case, Pua Kanakaʻole, and Hank Fergerstrom, among others, would be my reflected stance on the matters surrounding conservation and environmental restoration efforts. I cannot support a plan that does not have a majority of support by Native people, nor actions that would exploit and desecrate a precious source of heritage and culture for the purpose of economic reasons, pono relationships are worth more than puʻu kālā.

There are no need for new processes to improve the relationship with Kānaka Maoli. We do not need further layers of bureaucracy serving as roadblocks to get our points across. Our people have been consistent in sharing our concerns on the industrialization of a sacred temple for our people, conservation zoned lands, and most importantly the lack thereof title of the state to the lands it is leasing to the University. How can the University move forward with the management of land it has yet to prove ownership of? That is a more important issue that ought to be explored.

Comments on Goal and Objectives: In the “Part 1: Foundations” section of the draft, it highlights core values in ʻŌlelo Hawaiʻi that are culturally appropriated to meet the University’s needs. I find it sickening that an institution that is known for... toward Native Educatio

Comments on Strategies: Strategies should be to return control to Kānaka Maoli, for the University has shown its continued inability to respect our wishes to protect our sacred Mountain from exploitation and development.

Comments on Halepōhaku facilities: I oppose further development on any area of Mauna Kea

Comments on management and stewardship facilities in the MKSR: In “Part 2: Physical Plan” it is clear that the University’s intentions are set on continued commercialization and industrialization of Mauna Kea. There should not be any efforts to further desecrate these sacred lands to accommodate tourists and astronom

Comments on education, research, and astronomy facilities in the MKSR: No jurisdiction for these forms of business being conducted. Prove title to the land, who granted the State authority to lease these lands to the University?

Comments on access management facilities: X

Comments on proposal review process: The University has no legal authority to implement this plan and proposed actions on stolen Hawaiian Kingdom govt. lands and the Crown lands that are private lands of the moʻi.

Comments on design guidelines: The University has no legal authority to implement this plan and proposed actions on stolen Hawaiian Kingdom govt. lands and the Crown lands that are private lands of the moʻi.

General/Other comments: I would like to express that I have little faith that these comments would end in satisfaction, as I doubt the integrity of the University and its willingness to develop a plan truly embedded in the values and understandings of our kūpuna. Nonetheless, I want it on the record that I am opposed to this master plan as it is an extension of illegal occupation and usage of stolen Hawaiian Crown & Government lands, and in support of the ongoing desecration of our sacred lands. This plan is an extension of a fraudulent annexation, referendum, and all other colonial justifications for the usage of native lands in Hawaiʻi.

Let this be my message to not just the University, but the world: Our people [Kānaka Maoli] are challenging not just the University, but the leaders across the world to set a precedent where honoring relationships supersede money and greed. A precedent where ancestral knowledge is honored and respected rather than trampled on for modern science. A precedent where we value a relationship to the land and its native people, rather than asserting ourselves as superior. The Fakehood of Statehood and the lies the United States has spread through its Resolution 1469 to assert dominion over Hawaiʻi Under article 73e, must not go without challenge. Our ancestors understood the most sacred of things, were determined by their necessity to life. We do not need further desecration and pollution on our temple that sits upon the lands of Kaʻohu, in reference to the ‘ohe utilized the carry the sacred waters of Kāne. The United States and its trustee the State of Hawaiʻi has no jurisdiction over these lands. Various nations and institutions should not have investments in the desecration of our lands, and have a
responsibility to recognize our rights as the Native people to govern ourselves and support the restoration of our Self-
Determination. To support this is to support the protection of our temple that is currently under siege. To not support this is
to support a notion that ensures the continuity of the Doctrine of Discovery and Manifest Destiny, that some people are
destined to not be able to have the right of Self-Determination. Let a new precedent be established to promote the rights of
all people to determine the destiny of themselves and their land.
“We are not happy Natives” - Haunani-Kay Trask
Submittal Number:  12
Date submitted:  10/4/2021
Name:  Alexandra Bernstein
Organization:  
City, State, Zip:  ,

Comments on Missions, Vision, and Values:  Priority is environmental maintenance:
- minimization of erosion, including a plan for dealing with feral population that eats new plant growth and roots
- reduce current toxic substances on the Mauna and permit no new introduction of toxic substances
- perhaps plan areas for human use so that humans stay off of areas that are subject to erosion

Comments on Goal and Objectives:  Priority is environmental stewardship. Imagine all the runoff from the mountain was going into your backyard or where you swim. How would you want it to be?

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:  Get the military to clean up all radioactive waste prior to renewal of their lease. Include in their lease renewal the banning of any materials that contain may leave radioactive waste.

Make any pilot who will fly in or out of Big Island sit down for 5 minutes with a map that clearly shows Waikoloa Village to be a residential area. Make them sign a statement that they will not fly over it at any altitude. Just telling them has not made a strong enough impact on their behavior while in the air. Perhaps require the Army to program the navigation systems with a warning signal that activates when they are over an area with a specific heat signature that indicates human settlement. How hard can that be?

For Army lease renewal, make them choose between paying in advance for repaving Waikoloa Rd. the next time it needs it, or building the DKI Highway extension to Queen K. Since the former is much cheaper, maybe they will jump at the chance to do it.

For Army lease renewal: The Army makes a big show of their recycling & sustainability efforts. This does not include plastics. In addition to household plastics, they use plastic ammunition in training. To renew the lease, force them to start a project that actually recycles plastic into building materials or ships it out of here.
Submittal Number: 13
Date submitted: 10/5/2021
Name: Paul WHITE
Organization:
City, State, Zip: 

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: I think the plan is generally well done, but I think the implementation will be challenging. As long as management of the facility is not willing and able to ignore the noise made by a few vocal opponents, progress will be difficult. I suggest the Plan needs to be enhanced by adding an expedited fac
Submittal Number:  14
Date submitted:  10/5/2021
Name:  PAUL WHITE
Organization:  retired
City, State, Zip:  ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I think the plan is fine as far as it goes. But I suggest adding a section creating a fact-finding body that can act quickly (say within 60 days) to resolve factual questions about "traditional uses" of the facilities.
Submittal Number: 15
Date submitted: 10/6/2021
Name: Kalena Lanuza
Organization:
City, State, Zip:

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: Aloha, I would like to know how the University of Hawaii plans to address the historical trauma that has and will be caused to the Native Hawaiian people through this plan? As we know, Native Hawaiians have experienced significant trauma and subsequent mental health sequelae as a result of neo-colonialism and occupation of their lands. Specifically, the continued and planned occupation of Mauna Kea has caused many Native Hawaiians, including myself to have a visceral and embodied trauma response to this action. I'm truly curious as to how the university can make further hurting Native Hawaiians make sense when they consider sponsoring this project? As a responsible (assumed) partner in things that move Hawai'i and Native Hawaiians forward, I feel that this question must be addressed in your presentation. I, along with other Mental Health professionals look forward to your address.
Submittal Number: 16
Date submitted: 10/6/2021
Name: C. Ishihara
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: I don’t believe that UH should be creating and implementing a master plan for Mauna Kea given the past history and continued mismanagement of Mauna Kea. How can we trust that UH is not selfishly looking out for their own interests? The evidence is in the plan that UH will continue to push their agenda regardless of the opposition from the community.
Submittal Number: 17
Date submitted: 10/6/2021
Name: pahnelopi mckenzie
Organization: non
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Greetings and thank you for welcoming community engagement in this conversation that effects all of us here in Hawai‘i and abroad. As this pandemic has taught us many things one of them is land and ancient knowledge the only thing that will stand the test of time. I had hoped that this Master plan would look very different than it does. The fact that this conversation and coercive plan of Master lease with telescopes still as the focus is a shame. I am a settler and guest here in Hawaii and also have been a student at UH Maui. The Humanity that has been shared through Hawaiian lived experience is powerful and is life changing. The continued collaboration of knowledge, sovereignty, laulima, love in Hawaiian framework is a shared model of maintaining humanity in a world that is working to destroy life in the name of ‘progress. UH renewing the lease is a clear sign that changes must be made. The future operation of TMT do not belong on Mauna Kea, the conversations of how that could happen have been spoken. UH if a steward of The Mauna, of Hawaiian learning, of Aloha ‘Āina would not continue to defend or include TMT in any plans. “The Masters tools will never dismantle the Masters house. So I ask you UH Board, Reagents, Management, E ŏ i ka Leo what voice are you listening to?

Here are a few statements from the newsletter about the new master plan frameworks and I just wanted to make a few points. I know there is much more within the actual plan but we can start at the basic discrepancies that do not honor the statement ‘listen to the voice” as you proclaim. I have not taken the time to read the whole master plan but will add input to this by the date of October 26 as you have stated.

“The overarching goals of the plan are to reduce impacts to the natural resources, especially in the summit region, by limiting development” This statement with its positive intent shows the failure and danger that the mauna is still facing. Goals about limiting development while continuing to develop in a precious fragile natural resource is a contradiction. The language of oppression is loaded with goals. The goals the Fathers of Sociology and Science were full of goals but the plan was eugenics and erasure of ancient knowledge replaced by white theory domination with a smile of cooperation. The science building at UH Maui has a large framed poster of scientist that this Master plan aligns with. It shows over 90% Anglo scientist excludes any Hawaiian scientist, navigators, or astronomers yet Hawaiian were some of the greatest in the world to date. So the Mauna is in danger with this kind of science and ‘goals’.

“UH remains committed to ensuring that our astronomy program is one of the best in the world, offering world-class opportunities for our students and faculty while driving economic activity that helps diversify Hawai‘i’s economy and employment opportunities.” I would ask to this statement is neglecting the world class brilliance of Hawaiian astronomy and the ability to see the stars. The astronomy program teaches how to use telescopes not to look to the past to see the true indigenous mastery. How is this helping the economy. This continued game of “it is gonna help the economy” has got to stop. Hawaii is being sold off for pennies for plenty benefit outside of Hawai‘i. This language of pimping the Mauna for progress and the benefit of the people is dangerous and devoid of intelligence. People in Hawaii are being displaced, hawaiian being pushed out and the growth of this telescope monstrosity is not the solution. Diversification is a clear statement of colonized behaviors. Hawaii was one of the most ethnobotanically rich places in the world why not focus on the regeneration instead of momentary economic degradation that has shown to be a failure for Hawaii. I know there is a lot of work on the Mauna to protect its precious life and UH is a big part of it. But these telescopes are not that and the clear distinction must continue to be made.

“Providing mechanisms to seek and consider input from the native Hawaiian community and the broader community in the decision-making framework” This statement is the saddest one for sure. “mechanisms to seek and consider input from the Native Community”. The voice of the Kanaka Maoli should be absolute voice in this matter. To provide mechanism, is
clearly showing that the voice of this program is majority non Kanaka and that is a major problem. The voices and input of how majority Hawaiian feel about this continued telescope development has been clearly stated. Folks laid down their lives, went to supreme court with all proof of the illegal nature of these telescopes, went to jail, started Pu'uhuluhulu university, fed and cared for one another to show give clear input about decision making frameworks. So if all of that happened and you still are not listening what does one have to do to have their voices heard in the decision making frameworks?

I urge you to truly live by the statement of Aloha ‘Āina as you proclaim and E ō i ka leo. END THIS COLONIZED NIGHTMARE AND BE TRUE STEWARDS DO NOT DISSECT OUT THE MAUNA OR THE PEOPLE. Please ask yourself what did this pandemic teach you, was it really capital gains that helped us? It was community working together to stay safe and nourish one another. The colonizer justifies invasion because of the economy, what side of history will you participate in. Bless you I pray for you all.

With gratitude and hope, Pahnelopi Mckenzie
Submittal Number: 18
Date submitted: 10/6/2021
Name: Andrew Coyle
Organization:
City, State, Zip: Honolulu, HI 96818
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines: Because such a large facility to incorporate the telescope has to be built, it would be idea
to excavate a deep hole on the site that it is to be built on to help hide the telescope from the view of others below the summit.
By using a partially subterranean telescope housing, it would have many benefits. Greater protection from the elements, easier
access, less of a profile, etc.
If one could look up and see the massive bulk of Maunakea rising to world-record height without a big huge box with a
rotating dome dominating its summit, I think we would have gone far when considering the the natural aspects of the
environment.
General/Other comments:
Submittal Number:  19
Date submitted:  10/7/2021
Name:  Michael Tada
Organization:
City, State, Zip:  ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  THE MAUNA IS A BRIDGE TOO FAR. KANAKA MAOLI LITERALLY CANNOT/MUSTNOT EVER ALLOW FOREIGN HANDS TO EVEN DARE TO TOUCH THE SACRED PIKO. I MAY BE A FOREIGNER MYSELF, AND I AM, YET, HAVING LIVED HERE SINCE BIRTH, ALTHOUGH i A'OLE KOKO, YET BECAUSE I'VE HAD GREAT KANAKA KUMU IN GRADE SCHOOL, KAUAI COCKET, I HAVE NO CHOICE BUT TO YEARN TO BE A KIA'I. AT THE SAME TIME, BECAUSE OF MY JAPANESE KOKO, I AM FINE JUST BEING A BELIEVER AND DICIPLE OF LANAKILA MANGUAL. IF THAT'S ALL I AM ALLOWED TO BE, THAT'S MORE THAN ENOUGH. i BELIEVE YOU ALL KNOW MY HEART. I LOVE YOU GUYS.
Comments on Missions, Vision, and Values: To whom it may concern,

Please address the following questions. The following questions need to be adequately addressed in the so-called “Master Plan.” If they are not being addressed, please explain why and cite your legal instruments.

Will the University of Hawai‘i acknowledge and take international law and customary international law into account in the development of the so-called “Master Plan”? If not, please explain what and cite your legal instruments.

Does the University of Hawai‘i agree or disagree with Dr. Alfred M. deZayas, United Nations Independent Expert, Office of the High Commissioner for Human Rights “that the lawful political status of the Hawaiian Islands is that of a sovereign nation-state in continuity; but a nation-state that is under a strange form of occupation by the United States resulting from an illegal military occupation and fraudulent annexation”? If not, explain why and cite your legal instruments.

Does the University of Hawai‘i agree or disagree with Dr. Alfred M. deZayas, United Nations Independent Expert, Office of the High Commissioner for Human Rights that “international laws (The Hague and Geneva Conventions) require that governance and legal matters within the occupied sate (in this case, the Hawaiian Kingdom), not the domestic laws of the occupier (the United States)”? If not, explain why and cite your legal instruments.

Does the University of Hawai‘i own the summit (have legal title as landowners) of Maunakea? If the University of Hawai‘i is claiming to have legal title to the summit of Maunakea, please explain. Cite legal instruments, chain of title, and proof of title i.e. deed of transfer of title.

What is the documented chain of title for the summit of Maunakea? Does the University of Hawai‘i own any interest of land title for the summit of Maunakea? Cite legal instruments and proof of title?

If the University of Hawai‘i is only a leaseholder, why and by what authority does the University of Hawai‘i have to develop and manage the creation of a “Master Plan” for Maunakea?

Explain how the University of Hawai‘i became recognized as having “stewardship” over the summit of Maunakea? Is it a legal authority? Provide evidence. In what year and by what legal instrument did the Universisty of Hawai‘i become lawfully recognized as having “stewardship” over Maunakea?

When and how were the rights, “koe no na‘e ke kuleana o kānaka” which is a condition of title from the original award of Maunakea via the 1839 Declaration of Rights, the Hawaiian Constitution(s), and as it has been recognized in numerous court/legal cases extinguished i.e. PASH? In what year and by what legal instrument?

What is the legal basis for the University of Hawai‘i’s past and future use of the Maunakea Access Road; from the Daniela K. Inouye Hwy at Pu‘uhuluhulu to the summit of Maunakea? In what year and by what legal instruments does the University of Hawai‘i have lawful access? Cite the legal instrument and proof of right of access.

Please explain what “Maunakea is linked to the Hawaiian people” means? What does “linked” define? Does the University of Hawai‘i recognize the political, legal, and cultural rights and responsibilities that Native Hawaiians have with the summit of Maunakea? Cite the legal instruments and proof of what the University of Hawai‘i recognizes? What is it based upon?

Does the University of Hawai‘i hold legal and lawful authority to define, adjust, and alter the legal and lawful rights and responsibilities that Native Hawaiians have with the summit of Maunakea via the development of a “Master Plan”? Cite the legal instruments and provide proof.

Does the Industry of Astronomy (Astronomers) have legal and lawful rights and responsibilities to the summit of Maunakea? What is their legal rights and authority? Cite the legal instruments and provide proof.

Who made this determination that “…and for some the mauna is sacred”? What is this based upon? Who is defining what is sacred for Native Hawaiians? How does the University of Hawai‘i gain this authority to determine what is sacred for Native Hawaiians? Is the University of Hawai‘i making this assessment? What is the evidence? Is this a simple opinion by UH Administration?

No ka ʻāina, ka lāhui kanaka, a me nā hanauna Hawai‘i e hiki mai ana i kēia mua aku,
Konveio General Comment Forms

Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  21
Date submitted:  10/7/2021
Name:  Melissa Tomlinson
Organization:  
City, State, Zip:  

Comments on Missions, Vision, and Values:  How can you stand by you mission, vision, and values and still propose TMT? Have you heard the thousands telling you “No”?

Comments on Goal and Objectives:  Are there goals to continue removing telescopes to address restoration efforts for when the lease expires in 2033?

There is zero plan to move forward with TMT correct? Really I don’t understand how considering the spiritual/religious and cultural impa

Comments on Strategies:  Again I’m curious what restoration efforts will be utilized in “the strategy”.

What is the university’s strategy to give the land back to the rightful beneficiaries?

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:  Does the university have any management and stewardship collaboration goals with Pu‘uhuluhulu University?

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number:  22  
Date submitted:  10/7/2021  
Name:  Nora Makahanaloa  
Organization:  
City, State, Zip:  Lahaina, HI  96761  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  First of all "WE the people" Have a say to all of this It starts with The Constitution of the State of Hawaii. Let me Start with the "Preamble. We the people of Hawaii and uniqueness as an island State, dedicate our efforts to fulfill the philosophy decreed by the Hawaii State Motto " Ua mau ke ea o ka 'aina i ka pono. The Life of the Land is perpetuated in Righteousness. We reserve the right to control our destiny, to nuture the integrity of our people and culture, and to preserve the quality of life we desire. We reaffirm our belief in a government of the people, by the people and for the people, and with an understanding and compassionate heart towards all the people of the earth, do hereby ordain and establish this constitution for the State of Hawaii. As a kanaka Maoli this is our God given land from the beginning until the end of time. Mahalo nunui!
Submittal Number: 23
Date submitted: 10/8/2021
Name: Thomas Cousins
Organization:
City, State, Zip: Honokaa, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR: The highly revered Hawaiian voyaging navigators are star gazers and ponderers of the universe. I believe that there can be no better tribute to the sacred Mauna Kea than being chosen to represent the eyes of earth that open the havens for all of its inhab
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 24
Date submitted: 10/9/2021
Name: Jeanne Hempen
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support this plan 100%. Excellent, well organized and person sensitive plan. Based on this plan, I support TMT 100%. Astrology is critical for our future Hawaiian citizens.
Submittal Number: 25
Date submitted: 10/9/2021
Name: Lindsey Caldwell
Organization:
City, State, Zip: Waikoloa, HI

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: Native Hawaiian organizations should be the stewards of Mauna Kea not the university

Comments on Strategies:

Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: A’ole TMT and all unused telescopes should be removed
Comments on education, research, and astronomy facilities in the MKSR: A’ole TMT and all unused telescopes should be removed

Comments on access management facilities:
Comments on proposal review process: A’ole TMT and all unused telescopes should be removed
Comments on design guidelines: A’ole TMT and all unused telescopes should be removed

General/Other comments: Enough is enough! Stop destroying the top of the mountain, stop disregarding the indigenous peoples and their culture.
Submittal Number: 26
Date submitted: 10/9/2021
Name: Rosemary Kauina
Organization:
City, State, Zip: Kailua, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I would just like to register my support as a Native Hawaiian for the TMT to go forward. We need to diversify our economy and I believe that science and cultural practices can co-exist peacefully on the Mauna. Mahalo, Rosemary Kauina
Submittal Number: 27
Date submitted: 10/10/2021
Name: Kathleen Puou
Organization:
City, State, Zip: Kealakekua, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: It should be a spiritual reserve. Not a science reserve. The awe you feel up there is not from knowledge, but spirituality.
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities: X
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: After all we have taken from the Hawaiian people, I do not understand why you cannot concede TMT. Mauna Kea is for all people of Hawaii, not just a chosen few who feel their mission is above all others. Who is to say that research is more valuable than ones spirituality? At this time of world wide conflicts, I know the choices for expansion, development and profits have taken us astray. People are lost for lack of a connection to the greater gifts of our earth and the universe. No more development on Mauna Kea and return the mountain to those that love, care and respect her.
Comments on Missions, Vision, and Values: I strongly support maximizing use of Mauna Kea for astronomy facilities, keeping current telescopes and adding the Thirty-Meter Telescope. The currently existing and potential future telescopes on Mauna Kea have an extraordinary value for the State of Hawaii, the country and science. The telescopes help make the University of Hawaii an international hub of astronomy research with a world-class astronomy department, bringing in hundreds of thousands of research dollars and educating tomorrow’s scientists. The state of Hawaii and local communities benefit from the world-renowned scientists that come to work at the telescopes, and often bring spouses who are doctors, dentists, engineers and other experts desperately needed in the State of Hawaii. The telescopes do not pollute: no noise, no air emissions, no water effluent, no light pollution. Any other state would enthusiastically pursue the opportunity to have such low-impact, world-class science facilities, including the Thirty-Meter Telescope. As a taxpayer in the State of Hawaii, I support science and maximizing use of Mauna Kea for astronomy.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number:  29
Date submitted:  10/12/2021
Name:  Amy Allen 
Organization: 
City, State, Zip:  Honaunau, Hi  0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:  First observatories should be decommissioned and completely removed and their sites restored until only 9 remain. Furthermore, site 13 should not be developed. Failure to remain at or below 9 observatories constitutes a breach of trust. Until your management resolves the over abundance of existing facilities and have the blessing of native Hawaiians and Mauna protectors asking to develop another site is unconscionable.

Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 30
Date submitted: 10/12/2021
Name: Nikea Kumagai
Organization: 
City, State, Zip: , 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: Building TMT or any building on mauna kea is violating freedom of religion. It is a sacred site and huge ties to religion and culture

Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: Building TMT or any building on mauna kea is violating freedom of religion. It is a sacred site and huge ties to religion and culture
Comments on education, research, and astronomy facilities in the MKSR: Building TMT or any building on mauna kea is violating freedom of religion. It is a sacred site and huge ties to religion and culture
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines: Building TMT or any building on mauna kea is violating freedom of religion. It is a sacred site and huge ties to religion and culture

General/Other comments:
Submittal Number:  31
Date submitted:  10/12/2021
Name:  Courtney Johnson
Organization:  
City, State, Zip:  

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:  I do not consent to the building of the TMT on Mauna Kea. Honor and protect sacred land.
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 32
Date submitted: 10/12/2021
Name: Crystal Sanders
Organization: 
City, State, Zip:
Comments on Missions, Vision, and Values: Unless you are listening to Native Hawaiian voices who are demanding the cessation of this plan your “values” are rooted in colonization and genocide. Withdraw your plan for building TMT on Maunakea and return the university lands back to Native Hawaiian stewardship.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Unless you are listening to Native Hawaiian voices who are demanding the cessation of this plan your “values” are rooted in colonization and genocide. Withdraw your plan for building TMT on Maunakea and return the university lands back to Native Hawaiian stewardship.
Submittal Number: 33
Date submitted: 10/12/2021
Name: Hershini Gopal
Organization: 
City, State, Zip: ,

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:

Comments on Strategies:
Comments on Halepōhaku facilities: The physical plan to implement the TMT telescope on the sacred Mauna Kea is abhorrent. To bulldoze this land, sacred to thousands, for this brainchild of greed, simply cannot happen. There are other places. And frankly, even if there are not, then it is still necessary to preserve the Sacred. Do not disturb the Mauna.

Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:

Comments on proposal review process: The entire process has clearly been an echo chamber, because if all viewpoints were being equally taken into account, then you would see the thousands of protectors who have been stationed on the Mauna since the announcement. Whatever process that is ongo

Comments on design guidelines:

General/Other comments: Defend the Sacred
Submittal Number:  34
Date submitted:  10/12/2021
Name:  Vanea Dawson
Organization:  
City, State, Zip:  ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR: Besides people with letters after their name who is this actually educating? The public does not have access to what is going on and what the telescopes are actually used for. Nebulas, stars, galaxies, etc are not worth the erasure of an actual, tangible
Comments on access management facilities:
Comments on proposal review process: The community does not agree that a telescope should be built on top of Mauna Kea.
Comments on design guidelines: To put something profane on something sacred goes against the wishes of Hawaiian people.
General/Other comments: Not only is it causing destruction, it is illegally settling on Hawaiian land that was illegally taken over. It is allowing the erasure of Hawaiian people.
Submittal Number:  35
Date submitted:  10/13/2021
Name:  Mara Davis
Organization:
City, State, Zip:  honolulu, 12  0
Comments on Missions, Vision, and Values:  Mauna kea isn’t being taken care of environmentally right now there shouldn’t be any more construction on sacred land because it bad for the land all the trash and movement. Native hawaiians don’t benefit from more construction on their sacred land.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Mauna kea isn’t being taken care of environmentally right now there shouldn’t be any more construction on sacred land because it bad for the land all the trash and movement. Native hawaiians don’t benefit from more construction on their sacred land.
Submittal Number:  36
Date submitted:  10/13/2021
Name:  Charlene holani
Organization:  
City, State, Zip:  Hilo, HI  0
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  UH Has not held it’s end in managing The summit of Mauna Kea properly as promised in its past missions/and current proposed TMT. The lies and multiple back door permits (or non permits) show how much disrespect the University holds towards native Hawaiians/ Hawaii’s people and Hawaii the islands itself. There fore I only see it as just and fair for UH manoa not to move forward with the build of TMT and fulfill their obligations to removing the broken telescopes on MAUNAKEA and maintain and restoring the desecrated resources already done by current telescopes.
Submittal Number: 37
Date submitted: 10/13/2021
Name: Samantha Boyer Boyer
Organization: Samantha Boyer
City, State, Zip: Portland, Oregon 0

Comments on Missions, Vision, and Values: NO TMT CLEAN WATER AND LAND
Comments on Goal and Objectives: NO TMT BEFORR YOU GO TO SPACE MALAMA DIS PLACE
Comments on Strategies: NO TMT ON MAUNA KEA WE COMING FOR COLONIZERS WHEN IT HITS THE FAN
Comments on Halepōhaku facilities: No TMT on the Mauna, keep the waters clean from their coolant system. No way!
Comments on management and stewardship facilities in the MKSR: NO TMT ON MAUNA KEA. CLEAN WATER FOR OUR PEOPLE.
Comments on education, research, and astronomy facilities in the MKSR: EDUCATE US NOT COLONIZERS COMING IN FROM ELSEWHERE TO BUY OUR LAND
Comments on access management facilities: X
Comments on proposal review process: AOLE MAUNA KEA
Comments on design guidelines: STOP TAKING COLONIZER MONEY

General/Other comments: STOP SELLING HAWAII TO IRRESPONSIBLE BEASTS WHO WANT TO TAINT OUR WATERS FOR ONE LOOK AT THE SKY, HAWAIANS SAILED THE SEAS WITH THE STARS, WHAT THE HELL YOU DOING
Submittal Number: 38
Date submitted: 10/13/2021
Name: Jen Vasquez
Organization:
City, State, Zip: Tigard, OR 0

Comments on Missions, Vision, and Values: The indigenous people of Hawaii have an internationally recognized right to self-determination and have over the past 12 years clearly exercise that right and said no to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands

Comments on Goal and Objectives: For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been Mass demonstrations throughout Hawaii and abroad and opposition to the building of the TMT on Mauna Kea. Tens of thousands

Comments on Strategies: Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings, sign positions and petitions opposing the building of the TMT on the summits of Mauna Kea.

Comments on Halepōhaku facilities: I am all for the advancement of scientific research however for too long indigenous peoples have suffered under the guise of progress. The desecration of sacred lands, of which there is so little remaining that is not already developed, is not worth the additional expansion of buildings for scientific pursuit.

Comments on management and stewardship facilities in the MKSR: Although we cannot make amends for the past we can move forward in partnership with the people of Hawai'i to find new ways to explore our galaxy while preserving the history and culture of Hawai'i.

Comments on education, research, and astronomy facilities in the MKSR: The indigenous people of Hawaii have an internationally recognized right to self-determination and have over the past 12 years clearly exercise that right and said no to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands

Comments on access management facilities: X

Comments on proposal review process: I am all for the advancement of scientific research however for too long indigenous peoples have suffered under the guise of progress. The desecration of sacred lands, of which there is so little remaining that is not already developed, is not worth the a

Comments on design guidelines: Although we cannot make amends for the past we can move forward in partnership with the people of Hawai'i to find new ways to explore our galaxy while preserving the history and culture of Hawai'i.

General/Other comments: Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings, sign positions and petitions opposing the building of the TMT on the summits of Mauna Kea.
Submittal Number: 39
Date submitted: 10/13/2021
Name: Dayton Seto
Organization: Stanford Native American Cultural Center, Hui o Nā Mōkū, Stanford American Indian Organization (SAIO)
City, State, Zip: Stanford, CA 0

Comments on Missions, Vision, and Values: I believe this situation necessitated a discussion process where equity was established through a Ho’oponopono, or Peacemaking, format. It was very clear that the power dynamics were heavily skewed. As a result, the bases behind the vision, mission, and values were also inequitable and heavily subjugating towards the Mauna Kea protectors and the broader Kānaka Maoli people.

Comments on Goal and Objectives: Again, I maintain that balance is impossible without a truly equitable, balanced discussion space. Since this was failed by the framework, proper stewardship and education balances could not be achieved. Further, there has been little to no establishment

Comments on Strategies:
Comments on Halepōhaku facilities: The physical plan is based in the false framework again. It is fully hewa and very evident that no true compromises were made as TMT, the primary concern of these conversations, remains as a full goal.

Comments on management and stewardship facilities in the MKSR: Stewardship, likewise, is impossible as UH does not have authority over the land it claims to. This is well documented legally, but, further, the lack of recognition of Hawaiian sovereignty in our necessary ability to steward the land identifies the need

Comments on education, research, and astronomy facilities in the MKSR: Again, there is a lack of funding and respect for Hawaiian astronomical sciences due to the sole focus on Western astronomy approaches. Though names are important, where these names come from are even more important. Simply naming stars with our names is

Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: I fully stand as a representative of the Native Hawaiian community at Stanford against this plan as it fails to provide equity, proper land stewardship, furthers harm to the environment, undermines Hawaiian sovereignty, and promotes genocidal attitudes towards Kānaka Maoli people, our culture, and our land.
Submittal Number: 40
Date submitted: 10/13/2021
Name: Ahanu Boyle
Organization:  
City, State, Zip: ,
Comments on Missions, Vision, and Values: The empty promises of “mindfulness” in regards to the Mauna are disappointing. What kanaka maoli want is for UH to leave, not stay but “play nice”. Leave. Hewa. Return stewardship to the native Hawaiians who know the Mauna best and can take care of it properly. You will never get a yes from them.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 41
Date submitted: 10/13/2021
Name: Aina Iglesias
Organization: Independent
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values: Mauna Kea is sacred. Your mission, vision, and values should include Native Hawaiian input, and it has been made clear that the Native Hawaiian community is opposed any form of desecration to the Mauna, including construction.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Comments on Missions, Vision, and Values: Kanaka Maoli, Hawai‘i residents, and world citizens have made it abundantly clear through mass demonstrations, protests, hearings, and petitions that they oppose ANY construction of TMT on Mauna Kea. Continuing to build on Mauna Kea, therefore, infringes on Kanaka Maoli's internationally recognized right to self-determination.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 43
Date submitted: 10/13/2021
Name: Sam King
Organization: 
City, State, Zip: 

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: UH has done an excellent job managing Mauna Kea in the past 20 years and this plan represents an excellent vision for the future. I am very happy, as a Native Hawaiian, that TMT may be built under this plan. I am 100% in support of TMT. My major complaint about this plan is the restriction on construction of telescopes to 9. We should build as many telescopes on Mauna Kea, in as many locations on Mauna Kea, as would best benefit our State and maximize the perpetuation of Hawaii's celestial navigation history through contributions to advance astronomy. There should not be an arbitrary cap placed on our keiki's future. The use of Mauna Kea for advanced astronomy is one of Hawaii's greatest achievements. We should continue that incredible heritage with pride.
Comments on management and stewardship facilities in the MKSR: The people of Hawaii have repeatedly asked that this land not become a building site. That should be respected. They have a right to autonomy, and a right to their land.

Comments on education, research, and astronomy facilities in the MKSR:
Submittal Number: 45
Date submitted: 10/13/2021
Name: Tonee Burley
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values: For decades Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea. There have been mass demonstrations in Hawaii and abroad in opposition of the TMT. Thousands have marched and occupied the mountain to stop its desecration.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  46
Date submitted:  10/13/2021
Name:  Mary Rose Go
Organization:  
City, State, Zip:  ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  The Kanaka Maoli have been fighting to protect Mauna Kea for decades and there have been massive demonstrations for over a decade against the many telescopes up there. It's good that there is interest in including Native Hawaiian input. But the fact that "Maintaining the Maunakea Observatories' status as world leaders in astronomy" is still a major part of the plan shows that folks have not been listening. A leader is someone who listens - a leader does not have to be the best. A leader knows when to step down. And maybe now is the time to figure out how to let other universities shine by decommissioning more telescopes. Listen to the native people of the land you profit from. Enough is enough. No TMT. No more telescopes. No more desecration.
Submittal Number: 47
Date submitted: 10/13/2021
Name: Anon Ymous
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I wish to voice my support of continued astronomy observations on Maunakea. However, these MUST be done in balance with respect and care for the historical and natural environment.
The observations currently taken on Maunakea are not replicable elsewhere in the world and thus are critical to continued enhancement of our understanding of the universe we live in.
Stewardship of the land must include improved care and respect for the natural environment and its cultural significance.
I believe the current Master Plan strikes a reasonable balance between these goals which are sometimes, but not always, in conflict.
Submittal Number:  48
Date submitted:  10/13/2021
Name:  Sandra Moore
Organization:
City, State, Zip:  Washington, DC  0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments:  Across all of these areas, the priority should be centering indigenous voices and their perspective on the stewardship of Mauna Kea. Where this plan contradicts their priorities and impinges on their sacred space, it should be changed.
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: As a student of University of Hawai`i at Mānoa, I have been blessed with the great opportunity to meet with and learn from kanaka maoli during my time here. After listening to their voices and the call to action for the preservation of Mauna Kea from further desecration, I must expressed my deepest support to permanently end the plans for the construction of TMT as well as any future plans to disregard the cultural and religious importance of all of Hawai`i in exchange for the profits and consumption of outsiders. I demand that UH and it’s affiliates not only listen to Native Hawaiians, but act in accordance with their grievances. It is up to you to practice what you preach rather than act as hypocrites with complete and utter disregard for the lands you occupy.
Submittal Number: 50
Date submitted: 10/14/2021
Name: Lei’ohu Turley
Organization:
City, State, Zip: Makawao, Hawai’i 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The indigenous people of Hawai’i should make decisions for their land that has been developed on for decades without the consent of Native Hawaiian. Further developments should be stopped immediately.
Submittal Number: 51
Date submitted: 10/14/2021
Name: Deborah Estin
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values: The indigenous people of Hawai‘i have a right to self determination and, over the last 12 years, have exercised that right by clearly saying “No.” to TMT on Mauna Kea, which is on stolen lands.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 52
Date submitted: 10/14/2021
Name: Sophie Stockum
Organization: 
City, State, Zip: Cleveland, OH 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: The indigenous people of Hawaii have spoken. This is not your land to steward. You must end this project and return Mauna Kea to its rightful stewards. It is abhorrent that you would continue after the widespread backlash. No scientific findings could pos

Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  53
Date submitted:  10/15/2021
Name:  Jade Cain
Organization:
City, State, Zip:  Forest Grove, Oregon  0

Comments on Missions, Vision, and Values:  Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings, signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 54
Date submitted: 10/15/2021
Name: sarah begley
Organization:
City, State, Zip: wailuku, hi 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: as a native hawaiian and a hawaii resident, i emphatically OPPOSE the building of the TMT or any other telescope on mauna kea. i will never support the building of another telescope on this mountain.
Submittal Number:  55
Date submitted:  10/15/2021
Name:  Steven Epstein
Organization: 
City, State, Zip: 

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments:  I wholeheartedly agree with this plan. UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number:  56  
Date submitted:  10/15/2021  
Name:  Gloria Kobayashi  
Organization:  
City, State, Zip:  Hilo, Hawaii 0  

Comments on Missions, Vision, and Values:  

Comments on Goal and Objectives:  

Comments on Strategies:  

Comments on Halepōhaku facilities:  

Comments on management and stewardship facilities in the MKSR:  

Comments on education, research, and astronomy facilities in the MKSR:  

Comments on access management facilities:  

Comments on proposal review process:  

Comments on design guidelines:  

General/Other comments:  TMT on Mauna Kea makes sense and is good for our community. Promotion of astronomy is a way of looking toward the future.
Submittal Number: 57
Date submitted: 10/15/2021
Name: Doug Rhymes
Organization:
City, State, Zip: Kailua Kona, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii.
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 58
Date submitted: 10/15/2021
Name: William Lester
Organization:
City, State, Zip: Kailua Kona, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. It conforms not only to the best practices of scientific advancement but also to the wishes and beliefs of our forefathers - explorers who embraced the skies and the stars. To them, moving forward with discovery and awe is sacred. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number:  59
Date submitted:  10/15/2021
Name:  Howard Hall
Organization:
City, State, Zip:  Kamuela, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  My wife and I have lived in Waimea (Big Island) for 60 years and Mauna Kea mountain is the pride of Hawaii. We have watched Mauna Kea become world renown for the finest astronomical achievements of mankind. King Kamehameha would be so proud. The University of Hawaii has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 60
Date submitted: 10/15/2021
Name: Michael Lustik
Organization:
City, State, Zip: , HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: TMT has the potential to be the most impactful project to ever be developed in Hawaii, for the scientific knowledge to be gained along with improving education opportunities for keiki, diversifying the economy, and adding jobs in Hawaii. I wholeheartedly support its completion and hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. and a way to share the Mauna must be found. Please keep it up, Imua TMT!
Submittal Number:  61
Date submitted:  10/15/2021
Name:  james lehner
Organization:  lehner
City, State, Zip:  keaau   HPP, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Please continue with the work toward the TMT... It will be a world class observatory with benefits to all mankind and will a proud example of what the people of Hawaii represent.
Submittal Number:  62
Date submitted:  10/15/2021
Name:  Michael Helms
Organization:
City, State, Zip:  Mountain View, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I'm a life-long Big Island resident and want to express my support for science and the TMT project. Thank you,
Michael Helms
Submittal Number: 63
Date submitted: 10/15/2021
Name: Cheryl Ernst
Organization: ARCS Honolulu
City, State, Zip: Kailua, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: I support the plan and laud the university's efforts to provide opportunities for constructive input and balance stewardship with scholarship. I believe modern astronomy (like historical adze quarrying) can coexist with respect for the mountain and its spiritual significance. Thank you for carrying forward the ancient Hawaiians' tradition of exploration and discovery.
Submittal Number: 64
Date submitted: 10/15/2021
Name: Susan Munro
Organization:
City, State, Zip: Pepeekeo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am writing to express my support for TMT. It will add to the world's knowledge, and it will be good for this island. An excellent project! It would be very sad if it was derailed because people in power were swayed by a fringe element. These people seem uninterested in compromise, and uninterested in the welfare of their own people. They mostly want to "stick it to the man" (as we used to say in the 60s)
Submittal Number: 65
Date submitted: 10/15/2021
Name: Barnaby Beech
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I'm writing in simply to show support for the effort to bring the 30 meter telescope to Mauna Kea. I think it would be great for the Big Island in general and help develop the economy.
Submittal Number: 66
Date submitted: 10/15/2021
Name: Sandra Gibson
Organization: Sea Salts of Hawaii
City, State, Zip: Kailua Kona, Hawaii 0

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: I would like to voice my support for TMT and the University of Hawaii's plan. Mauna Kea is a truly unique and important place for astronomy and I feel UH is in a perfect position to thoughtfully balance the interests of the different stakeholders.
Submittal Number:  67
Date submitted:  10/15/2021
Name:  Karin Lynn
Organization:
City, State, Zip:  Honolulu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I am an avid supporter of TMT as a win / win / win for science, astronomy, the future, Hawai‘i as a whole, the Big Island, our keiki, and even (in many ways) especially for the Kanaka Maoli.  We can coexist for the benefit of everyone.  If Kalepa Baybayan were still with us (RIP) he would be leading the charge!  UH has done a good job managing Mauna Kea over the last 20 years, and obtaining a permit for the construction of TMT was an important piece.  Next comes support of actual construction of this state-of-the-art telescope which will put Hawai‘i and UH in the forefront of space exploration; I wholeheartedly support its completion.  My hope is with UH to do everything in its power to ensure TMT is built!  Mauna Kea is now some of the best managed state-owned land in Hawai‘i.  Please keep it up.  Imua TMT!
Submittal Number: 68
Date submitted: 10/15/2021
Name: Fred Harris
Organization:
City, State, Zip: Kailua, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has become a good steward oh Mauna Kea and their new plan is well thought out. Astronomy is a very worthwhile endeavor for UH and Mauna Kea.
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I am writing to express my continued support for astronomy in Hawai‘i. TMT offers a unique opportunity for all of humanity to reach new knowledge about our amazing universe. A unique opportunity is possible only in a unique place such as Mauna Kea.
Submittal Number: 70
Date submitted: 10/15/2021
Name: Thomas Lowe
Organization: University of Hawaii, Institute for Astronomy
City, State, Zip: Kula, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: With the downturn in the local economy caused by the COVID-19 pandemic the TMT project would be a much needed boost to the local economy. It's not like we want to build a strip mine on the summit. Astronomy is a clean industry and one of mankind's noblest endeavours. I'm convinced that the old Hawaiians would fully support this project since they had a sophisticated knowledge of the night sky and used the stars for navigation. It's unfortunate that a small but highly vocal minority of Hawaiians want to impose their will on the majority of people that support the project. They've used the courts to try to stop this project and when they consistently lose these court challenges they refuse to accept the rulings. This is not the rule of law, this is anarchy! I don't regard them as "protectors" but anarchists. I think some of them want to return Hawaii to the stone age.
Submittal Number: 71
Date submitted: 10/15/2021
Name: Michael Bernstone
Organization:
City, State, Zip: WAIKOLOA, HI 0
Comments on Missions, Vision, and Values: Critical part of the Hawaii Island economy
Comments on Goal and Objectives: Mauna Kea Observatories perform vital work for many sectors worldwide.
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 72
Date submitted: 10/15/2021
Name: Ikaika M
Organization:
City, State, Zip: Honolulu, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: As a native Hawaiian I fully support our participation in science. The goals of TMT are in direct alignment with our wayfaring ancestors. Please continue advancing our people and all of science through the TMT project. Mahalo
Submittal Number: 73
Date submitted: 10/15/2021
Name: Eric Johnsen
Organization: Creative Solutions
City, State, Zip: Honokaa, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I and my circle of friends feel that astronomy is a legitimate best use, among others, of the summit of Mauna Kea. We think that the U of H is an appropriate manager of the area and has been doing a good job. Keep up the good work and build the TMT.
Submittal Number: 74
Date submitted: 10/15/2021
Name: Leslie Karst
Organization:
City, State, Zip: Hilo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 75
Date submitted: 10/15/2021
Name: Nancy Male
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I have used the following wording written by others, but it is true to my feelings. UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 76
Date submitted: 10/15/2021
Name: Mike Irwin
Organization:
City, State, Zip: Reno, NV 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR: I strongly support astronomy and TMT on the mauna.
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support protection of cultural sites and activities on the mauna.
Submittal Number: 77
Date submitted: 10/15/2021
Name: Boyang Zhang
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best-managed state-owned lands in Hawaii. Please keep it up. Imua TMT!
Submittal Number:  78
Date submitted:  10/15/2021
Name:  Nancy Taylor
Organization:  
City, State, Zip:  Kaneohe, HI  0
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I write in support of the TMT which I believe is the most important project that UH could implement. What an incredible opportunity for UH, the State of Hawaii and, indeed, the world. The fact that the perfect place for this telescope is here in Hawaii is such a blessing. I am in full support of this project.
Submittal Number: 79
Date submitted: 10/15/2021
Name: William N Jardine
Organization: Retired individual
City, State, Zip: Kamuela, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Aloha from and old-timer in Kamuela. I strongly support the new plan for the summit management as well as the TMT project itself. We have seen extraordinary benefits from the scientific endeavors on the mountain, and our children and grandchildren have benefitted greatly in terms of both resources and inspiration. Mahalo for your good work!
Konveio General Comment Forms

Submittal Number: 80
Date submitted: 10/15/2021
Name: Kenneth Quirin
Organization:
City, State, Zip: Kailua, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect of obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number:  81
Date submitted:  10/15/2021
Name:  sandra kirkpatrick
Organization:  none
City, State, Zip:  Keaaù, HI  0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments:  UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 82
Date submitted: 10/15/2021
Name: Kathy Teruya
Organization:
City, State, Zip: Honolulu, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: For TMT
Submittal Number: 83
Date submitted: 10/15/2021
Name: Lydia Faletoi
Organization:
City, State, Zip: MILILANI, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Support UH Mauna Kea plan and construction of TMT on Mauna Kea.
Submittal Number: 84  
Date submitted: 10/15/2021  
Name: Jeffrey Barak  
Organization:  
City, State, Zip: Kailua, HI 0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: I respect the preservation of Hawai‘ian culture, but looking at the issue of astronomy at the summit of Mauna Kea, Mauna Loa and Heleakala, there can be no reasonable objection to any of it. All popular objections are misguided and the current protesters are led by illogical agitators. Astronomy is Hawaiian. It is how the ancestors of the first Hawai‘ians navigated and arrived. The modern protesters are nothing to do with historical Hawai‘ian culture. The telescopes are less harmful to the mauna than the quarrying that the pre-contact islanders did up there. People are getting on the anti-TMT bandwagon because they bemoan the illegal termination of Hawai‘ian sovereignty and perhaps the loss of some of the less cruel and deadly aspects of the grossly unjust Kapu system. A new religion is being imagined, and it is nothing but a mish-mash of modern hula, American and British missionary Christianity, and new-age mumbo jumbo. To respect the mauna, build the telescope and teach Hawai‘ian kids real science.
Submittal Number: 85
Date submitted: 10/15/2021
Name: James Cotter
Organization:
City, State, Zip: Kailua Kona, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Astronomy is important. Learning is important. Mauna Kea is important. Build the TMT!!!
Submittal Number:  86  
Date submitted:  10/15/2021  
Name:  GORDON Sam  
Organization:  Pearl Hawaii Federal Credit Union - Waipahu, HI  
City, State, Zip:  Honolulu, HI  0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  We need to keep Hawaii as the top place in Astronomy  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  
Submittal Number: 87
Date submitted: 10/15/2021
Name: Gardner De Aguiar
Organization:
City, State, Zip: Hilo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am Kanaka Maoli and I support the building of the TMT. Our island needs another industry besides Tourism to sustain its economy. What more fitting industry than Astronomy and other STEM programs? Our island is primed for it and can allow us to be a huge asset to the global theater. It will benefit not only us, but the world over. Hawaiians SHOULD be part of this progressive endeavor.
Submittal Number: 88
Date submitted: 10/15/2021
Name: Patricia Kassis
Organization:
City, State, Zip: Kamuela, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: This is a good plan. I support astronomy on Mauna Kea.
Submittal Number: 89
Date submitted: 10/15/2021
Name: Devin Chu
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: Aloha,
My name is Devin Chu, PhD. I grew in Hilo, HI and graduated from Hilo High School. I'm now a postdoctoral researcher in astronomy at UCLA.

UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I see TMT as a way for me to return home to Hawaii Island to pursue my career and will provide incredible opportunities for future generations. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!

Mahalo,
Devin Chu
Submittal Number: 90
Date submitted: 10/15/2021
Name: Margaret Anderson
Organization:
City, State, Zip: Kailua Kona, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support the plan and UH stewardship. Please keep up the good work. Also please support TMT project as it is important to the world & our future.
Comments on Missions, Vision, and Values: This 'mission' cannot operate in good faith without the involvement of a wide set of stakeholders having actual power in the decision making. The University has not demonstrated it's good faith towards the Hawaiian people. If it had, there would be more Hawaiians in positions of power. 'Locals' do not cut it (see Haunani Kay Trask's meditations on localism).

Moreover, the ethos of 'science for science's sake' must end. With the same machinations of the ivory tower, this set of values excuses and obscures the harm that can be caused in the pursuit of scientific knowledge. Many branches of science are dealing with this right now (in particular look at the legacy of racism within the medical field). However, the 'purer' sciences (aka hard sciences) have yet to really engage with the harm they can cause. The environmental, cultural and societal effects of science must be considered as part of the the value of science. If a large group of people (especially and specifically if they are Indigenous) are standing in opposition to a scientific endeavor, then the purpose, validity, and integrity of that endeavor should be questioned and reconsidered.

UH has frequently professed that it is an Aloha 'Āina university. But there can be no Aloha 'Āina at UH if UH refuses to engage in Aloha 'Āina with the cultural practitioners and rightful stewards of this land. If this is illegible to you, then maybe reflect on why you've chosen "Aloha 'Āina" as a value because it certainly for love of the land.

Comments on Goal and Objectives: One of the frequent refrains of TMT supporters is that jobs and education will go to Hawaiians somehow improving the livelihoods of those Hawaiians. But this is a promise that has been made before and seems empty without explicit, measurable, and enforcea

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 92
Date submitted: 10/15/2021
Name: Greg Ruhland
Organization:
City, State, Zip: Hilo, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I have lived in Hilo for the last 36 years. I have had my children in this community and now have four of my 11 grandchildren living in Hilo. My son has returned with his wife and they are both physicians in the Hilo emergency room. I wholeheartedly support the community of Hilo and the big Island and especially projects that will contribute to educational opportunities and potential employment opportunities for my family and other big island families. I wholeheartedly support the development of the TMT project on the summit of Maunakea.
Greg Ruhland MD
Submittal Number: 93
Date submitted: 10/15/2021
Name: Michael Hoenig
Organization: Honolulu, HI
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am a former employee of one of the current telescopes on Maunakea, so I think I am qualified to say that UH has done a masterful job of managing the mountain over the past 20 years! Especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii, and of course I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT gets built. Maunakea now constitutes some of the best managed state-owned land in Hawaii. Please keep up the great work!
Submittal Number: 94
Date submitted: 10/15/2021
Name: Douglas Murata
Organization:
City, State, Zip: Honolulu, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: I fully support UH's role and responsibility as the managing entity over Mauna Kea for the last 20 years, and further support its efforts with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the more significant projects to ever be developed in Hawaii and I wholeheartedly agree with the intent to complete it. Mauna Kea is now some of the best managed state-owned land in Hawaii and its steward has a mandate to look forward to its future, now more than ever. Please keep it up. Imua TMT!
Submittal Number: 95
Date submitted: 10/15/2021
Name: Laura Moffat-Cintron
Organization:
City, State, Zip: Honolulu, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: I am in favor of TMT.
Comments on education, research, and astronomy facilities in the MKSR: I favor TMT at Mauna Kea.
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 96
Date submitted: 10/15/2021
Name: Laura Moffat-Cintron
Organization: 
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: I am in favor of TMT.
Comments on education, research, and astronomy facilities in the MKSR: I favor TMT at Mauna Kea.
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  97  
Date submitted:  10/15/2021  
Name:  Tom Walton  
Organization: 
City, State, Zip:  KAILUA KONA, HI 0  
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives:  I support TMT and astronomy on Mauna Kea  
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments:
Submittal Number: 98
Date submitted: 10/15/2021
Name: Ruth Robison
Organization: UH Hilo (Retired)
City, State, Zip: Hilo, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: I have been living in Hawai‘i since 1962, in Hilo since 1982, working at UH Hilo until I retired in 2010. Although UH has made some mis-steps in the past, it has realized the care that must be taken in managing Mauna Kea and demonstrates that in the new M

Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 99
Date submitted: 10/15/2021
Name: Charles Caldwell
Organization:
City, State, Zip: Mountain View, Hawaii 0
Comments on Missions, Vision, and Values: I support TMT
Comments on Goal and Objectives: I support TM T
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: I support TMT
Comments on education, research, and astronomy facilities in the MKSR: I support TMT
Comments on access management facilities: X
Comments on proposal review process:
Comments on design guidelines: I support TMT
General/Other comments: I support TMT
Submittal Number: 100
Date submitted: 10/15/2021
Name: Thomas Browder
Organization: Univ. of Hawaii
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done an excellent job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the most inspiring projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure that the TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. I strongly support the completion of the TMT on Mauna Kea.
Submittal Number: 101  
Date submitted: 10/15/2021  
Name: Jon Sobstad  
Organization:  
City, State, Zip: Kaunakakai, HI 0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Konveio General Comment Forms

Submittal Number: 102
Date submitted: 10/15/2021
Name: John Learned
Organization:  
City, State, Zip: ,  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: I don’t support TMT or UH controlling Maunakea lands. Land back! A’ole TMT!
Submittal Number: 103
Date submitted: 10/15/2021
Name: Tina Carvalho
Organization: Pacific Biosciences Research Center, UHM
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Hawaii is in a position to further critical research with facilities such as these. Please suppose the education and well-being of Hawaii and global residents by building and supporting TMT!
Submittal Number: 104
Date submitted: 10/15/2021
Name: Peter Daspit
Organization:
City, State, Zip: Kailua, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I'm with King Kalakaua in terms of supporting science in Hawaii, and adding to the knowledge of the stars.
I'm with Kalepa Baybayan in terms of supporting TMT in the continuing search for that knowledge.
I'm with all those who know that worship of the past can't be all-consuming now, any more than it ever was in the past.
Submittal Number:  105
Date submitted:  10/15/2021
Name:  Don Nunes
Organization:
City, State, Zip:  Hilo, Hi  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:  I want the new telescope installed for astronomy and education for our younger people
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  106
Date submitted:  10/16/2021
Name:  William Lyon
Organization:
City, State, Zip:  Haleiwa, Hawaii  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I support TMT being built as planned on Mauna Kea!
I have no doubt it is appropriate to build it there. I have visited the summit at least 30 times and have brought friends and family with me to observe it and have never had any one of my companions feel anything inappropriate about what was taking place at the summit.
Most if not all of the detractors I have spoken with, have never gone to the summit! How can your opinion be counted if you have never visited or even planned to visit the summit. Mahalo for your time.
Submittal Number: 107
Date submitted: 10/16/2021
Name: Charles Walters
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 108
Date submitted: 10/16/2021
Name: Mary True
Organization:
City, State, Zip: Pepeekeo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
**General/Other comments:** I just want you to know that I fully support the TMT. I think Hawaii Island's economy really needs this shot in the arm. Loud voices from the minority should not be allowed to undermine this wonderful project.
Submittal Number: 109
Date submitted: 10/16/2021
Name: Shannon Murphy
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The UH has gone above and beyond following procedure and trying to get input from even fringe stakeholders in its management of Mauna Kea. TMT will have an enormous impact on astronomy as a whole and on the perception and practice of science in Hawaii in particular, a direction we need more than ever.
Submittal Number:  110
Date submitted:  10/16/2021
Name:  Matt Binder
Organization:  
City, State, Zip:  Kamuela, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  No one has said it better than King David Kalakaua: “It will afford me unfeigned satisfaction if my kingdom can add its quota toward the successful accomplishment of the most important astronomical observation of the present century and assist, however humbly, the enlightened nations of the earth in these costly enterprises.”

UH has done a good job of managing Mauna Kea. TMT is one of the best projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.
Submittal Number:  111
Date submitted:  10/16/2021
Name:  Johannes Stoessl
Organization:  University of Hawaii
City, State, Zip:  Honolulu, Hawaii  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project.  TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion.  I hope UH is doing everything in its power to ensure TMT is built.  Mauna Kea is now some of the best managed state-owned land in Hawaii.  Please keep it up.  Imua TMT!
Submittal Number: 112
Date submitted: 10/16/2021
Name: John Griffith
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am strongly in support of the incredible opportunities provided by the Thirty Meter Telescope. I want my children to be able to continue and advance the proud native Hawaiian tradition of studying the stars. I am thrilled by the help this project presents to our local Ohana and scientific communities. Please do not let this opportunity slip away.
Submittal Number: 113
Date submitted: 10/16/2021
Name: Linda Soll
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Thank you for your efforts to promote Mauna Kea astronomy. The TMT would continue UH's position doing world-class research on Mauna Kea, and benefit so many of us. Please support TMT and all the good-paying jobs it would provide and all the opportunities for educating our keiki.
Submittal Number:  114
Date submitted:  10/16/2021
Name:  Laurence Ward
Organization:  
City, State, Zip:  Honolulu, Hawaii  0
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  Aloha kakou,
I have been a resident of Hawaii since 1966, graduating from Roosevelt High School and the University of Hawaii at Manoa. During this time as well as later after obtaining a naturopathic medical degree from the mainland I also studied the Hawaiian language, interacted with native cultural practitioners and participated in a committee tasked with coming up with a licensure law covering the practice of native Hawaiian healing arts. I also have had a strong interest in astronomy since my youth with my own home-built telescope. I regard the top of Mauna Kea as the crown jewel of global astronomy and have been fascinated with the world class research and findings originating from the various telescopes on the summit. This spirit of exploration and discovery is totally in alignment with the culture and outlook of the Polynesians who first populated the Hawaiian Islands over eight hundred years ago.
I trust the University of Hawaii to be the best impartial and responsible stewards of the Maunakea summit and recognize that there is no place on earth better suited for the placement of the Thirty Meter Telescope than that summit. I hope the University of Hawaii is doing everything in its power to make sure that the TMT is built to unlock the next phase of exploration and discovery we need as we move closer to the eventual expansion beyond our planet.
Please keep up the good work and thank you.
Laurence Ward
Submittal Number: 115
Date submitted: 10/16/2021
Name: Barbara Ells
Organization:  
City, State, Zip: ,

Comments on Missions, Vision, and Values: The TNT is a part of Hawaiian heritage. The beginning of the Hawaiian Islands started without anyone knowing what was here. The TNT will give us a hint of what is waiting for us in the universe. Hopefully these hints will help, rather than hinder.
Good luck, blessings and hope with this mission.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 116
Date submitted: 10/16/2021
Name: Marcia Nora
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I’m in favor of the TMT Project
Submittal Number: 117
Date submitted: 10/16/2021
Name: Carol Carpenter
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The TMT is vitally important to Hawaii. It will bring so many good things to the islands like jobs, tourist dollars, educational opportunities, etc., and we need all these things. Construction should start as soon as possible and protestors should not be allowed to halt or stand in the way of progress.
Submittal Number: 118
Date submitted: 10/16/2021
Name: Lindy Pounds
Organization: 
City, State, Zip: Honaunau, HI 0
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 119
Date submitted: 10/16/2021
Name: Alberta Freidus-Flagg
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. Please firmly commit to UH doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii.
Submittal Number:  120
Date submitted:  10/16/2021
Name:  Christine Fukui
Organization:
City, State, Zip:  Honolulu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  UH has done a great job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. It will contribute to education, research, increasing knowledge in astronomy and is a green and clean industry! I hope UH is doing everything in its power to ensure TMT is built. Do not let it be built in the Canary Islands! Let it be built in the United States to benefit all of us. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 121
Date submitted: 10/16/2021
Name: Lloyd Dunn
Organization: Lloyd's
City, State, Zip: Kailua Kona, hi 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: I believe history will not smile if the TMT never comes to Hawaii. Everyone knows that the old Hawaiians were astronomers, much more advanced than many of the world's astronomers at the time. To defeat the TMT means to defeat science and progress. I know everyone wants something to fight for or fight against. Some people even don't know what they want but are always ready to fight for it. I get that. Unfortunately saying NO to the TMT is a little like the Taliban, a group against education and progress.
Submittal Number:  122
Date submitted:  10/16/2021
Name:  Cory Lar Rieu
Organization: 
City, State, Zip:  ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments:  I support the TMT project.
Submittal Number:  123
Date submitted:  10/16/2021
Name:  John Lockwood
Organization:  
City, State, Zip:  Hilo, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  The plan is well-done and comprehensive, but limits space. PLEASE INDICATE SUPPORT FOR THE TMT!
Submittal Number: 124
Date submitted: 10/16/2021
Name: Larry Painton
Organization: 
City, State, Zip: Kamuela, Hi 0

Comments on Missions, Vision, and Values: A well balanced plan making Room for all is essential to the well being of the youth of Hawaii. They are the ones who will receive the greatest benefits.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Hawaii has a long tradition of exploring the sky and TMT is the logical continuation of that. As largest telescope planned on the northern hemisphere it could revolutionize our knowledge about the universe. It might even find signs of life elsewhere in the universe. I don't think we should miss this opportunity. I support UH's plan to build the TMT.
To whom this may concern,

My name is Dyson Chee and I am a 19-year-old resident of Ala Moana. I am also a student at the University of Hawai‘i at Mānoa. I am submitting this testimony regarding the construction of the TMT.

While I believe that astronomy is an important part of scientific development, I do not believe that it trumps the cultural importance of Mauna Kea. It is stated in the Draft Master Plan that the University of Hawai‘i recognized both the cultural and environmental significance of Mauna Kea. However, a Civil Beat article also stated that, "The goal for most telescope decommissioning is to return the site to its natural state. In this case, that might not be feasible, according to Jennifer Scheffel, a senior environmental planner with SSFM. ‘We aren’t taking it back to the historical conditions. That was considered, but determined to not be feasible for a variety of reasons,’ Scheffel said, adding that the site has already been disturbed by past construction, and that fill materials wouldn’t be suitable for habitats for the wekiu bug endemic to the Mauna Kea summit" (Lovell, 2021).

While I understand the reasoning for being unable to restore the site to its natural state, the inability to do so still reflects poorly upon the University of Hawai‘i as an environmental and cultural steward. Though these older telescopes were built a long time ago, clearly the impacts of building them are still affecting us today. The same goes for the cultural and social injustices that Native Hawaiians faced and continue to face today.

As a Japanese Korean with not a drop of Hawaiian blood in my veins or Hawaiian history in my family, I defer to the leaders of the Kanaka community as to what the best solution would be regarding TMT. It is particularly sacred Native Hawaiian land and therefore I believe that Native Hawaiians should hold the most sway in the decision-making. I urge the University of Hawai‘i to take a similar approach that is rooted in the Kanaka community.

At the same time, I am greatly appreciative of the time and energy inputted into the Draft Master Plan, and hope that the University of Hawai‘i will proactively seek to engage and empower Native Hawaiians on local developments beyond TMT.

Thank you for the opportunity to share my testimony.

Sincerely,

Dyson Chee
Submittal Number: 127
Date submitted: 10/16/2021
Name: Robert Maynard
Organization:
City, State, Zip: Kailua, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The time is right to advance science on Mauna Kea with the new, powerful TMT. It's good for Hawaii; it's good for humanity
Submittal Number: 128
Date submitted: 10/16/2021
Name: Nancy Lundblad
Organization:
City, State, Zip: Hilo, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: The educational opportunities (world-wide, and including far more than astronomy) should NOT be limited by a few loud complaints. Take care of the environment AND do research, education to include that these are not mutually exclusive and that coexistence

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 129
Date submitted: 10/16/2021
Name: Nrian Fsgsn
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support the TMT. Continue the heritage of exploration of the unknown. Mahalo.
Submittal Number: 130
Date submitted: 10/16/2021
Name: Carl Emerson
Organization: 
City, State, Zip: Hilo, Hawaii 0
Comments on Missions, Vision, and Values: The University has the right values and vision for the the Mauna
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The University has always done a wonderful job of managing the mountain, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. I am 100 percent in favor of building TMT on the mountain. TMT and astronomy as a whole is the best thing to happen to all of our island communities. After seeing the master plan I am sure they will continue to be the best choice for stewards of the Mauna. Thank you
Submittal Number: 131
Date submitted: 10/16/2021
Name: Jada May Areola
Organization:
City, State, Zip: Honolulu, Hawaii 0

Comments on Missions, Vision, and Values: The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian Lands.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 132
Date submitted: 10/16/2021
Name: Melanie Long
Organization:
City, State, Zip: Honolulu, HI 0

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:
Comments on Halepōhaku facilities: Why would we ever RE-purpose Halepōhaku? No

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: Please allow TMT to utilize the space they have the lease to use. The right to use. Our world needs hope, ways to discover good to help our world, and a way to bring countries together again to work together.

Learning is so important. Our young engineers and more, can come home and work with our Hawai‘i Astrophysicists and more. Please do what you can to empower our Hawaiians and all people of Hawai‘i and the world with what can be discovered.

As people that empower students with knowledge, I cannot imagine you not doing what is Pono. Give our great mauna the power to help knowledge spread and grow.
Submittal Number: 133
Date submitted: 10/16/2021
Name: Thomas Loudat
Organization:
City, State, Zip: Kaneohe, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: TMT is of immeasurable value to humanity, science, the State of Hawaii and the Big Island. Time to get this project done before we are all dead and cannot enjoy the discoveries to be made.
Comments on Missions, Vision, and Values: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 135
Date submitted: 10/16/2021
Name: Ali Bairos
Organization:
City, State, Zip: Kealakekua, Hawai’i 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The TMT project is a visionary project directly furthering the aspirations and dreams of our ancestors; completion of the project will immeasurably enhance opportunities for local kids who want to remain in our island home and secure a good living. I trust that UH will stand strong on the right side of history and see this project through to fruition.
Submittal Number: 136
Date submitted: 10/16/2021
Name: Norma Pershing
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I fully support TMT and UH. We need the telescopes on Mauna Kea and it's crucial, not only to our economy but to humankind as a whole. Hawaii should be honored to have the best viewing of the stars, in the entire world! I respect the protester's point of view but I also would like to ask a question, "would you deny humanity as a whole based on the past?" I went to a local high school and our motto was "Imua" or "move forward", and I believe as a part-Hawaiian myself, that we need to move forward.
Submittal Number: 137
Date submitted: 10/16/2021
Name: John McDonnell, M.D.
Organization: UH JABSOM, Dept of Medicine
City, State, Zip: Kailua, HI 0

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives: I support UH’s efforts in maintaining and continuing Astronomy studies on Mauka Kea. Please continue to support these valuable efforts for the benefit of the future of all people, especially people of Hawaii. Let us all work together peacefully. Thank

Comments on Strategies:

Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments:
Submittal Number: 138
Date submitted: 10/16/2021
Name: Donavan Jones
Organization:
City, State, Zip: Ewa Beach, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support your ages plan for Maunakea. They are the perfect Steward for this mountain.
Submittal Number: 139
Date submitted: 10/16/2021
Name: Susan Miyasaka
Organization: Private citizen
City, State, Zip: Hilo, HI 0

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: The University of Hawaii has served as a good steward of Mauna Kea Science Reserve. Entomologists were hired to study the wekiu bug and impacts of TMT and other observatories on this native insect. During a talk given by the entomologist in charge, I learned that the proposed location of TMT was moved to an area with minimal impact on the wekiu bug. Also, I learned that removal of proposed observatories could have a greater negative impact than leaving current, obsolete observatories in place. I support the continued stewardship of the Mauna Kea Science Reserve by the University of Hawaii, because stewardship should be based on scientific studies.
Submittal Number: 140
Date submitted: 10/16/2021
Name: Lon Hocker
Organization:
City, State, Zip: Hilo, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Please let it be built.
How sad it is that this is even being discussed.
I have a BA in Physics from Princeton and a PhD in Physics from MIT.
Religion is passing on beliefs.
Science is the search for reality without being hindered by historic understandings.
UH should not be a religious institution, but a scientific institution.
The many parts above are really politics: who makes money from the project. I wish you luck on getting through that mine field.
PLEASE LET IT BE BUILT!!!
Submittal Number: 141
Date submitted: 10/16/2021
Name: John Pierce
Organization:
City, State, Zip: Waikoloa, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: I strongly believe that Hawaii is in danger of losing its premier position as the number one Astronomical site in the World. Why? It's inability to stand up to a MINORITY that is vocal and aggressive. The MAJORITY of Hawaiian residents support science

Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR: We are being offered an amazing opportunity for educational grants and opportunities for the youth of our State by the TMT group. Do not let a vocal of wrong minded, anti-science, malcontents destroy this opportunity for our keiki.

Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments:
Submittal Number: 142
Date submitted: 10/16/2021
Name: Andy Andrews
Organization:
City, State, Zip: Pahoa, Hawaii 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR: UH has done an excellent job of delicately balancing a multitude of uses with the careful continued protection of Mauna Kea. The people of the State of Hawaii (and beyond) think of the mountain as many things, ranging from a simply beautiful location seen

Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments:
Submittal Number: 143
Date submitted: 10/17/2021
Name: Sara Olsen
Organization: UC Berkeley
City, State, Zip: Pacifica, CA 0

Comments on Missions, Vision, and Values: The development of Mauna Kea is clear desecration. If rectifying injustice is a goal of this plan, then its land-use prescriptions must protect AGAINST the desecration and destruction of sacred 'aina. This is not just a Native Hawaiian issue but one of justice that asks us to confront the degree of harm we are willing to inflict in the name of research and monetary reward - the degree of damage we are willing to accrue with our community.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Konveio General Comment Forms

Submittal Number:  144
Date submitted:  10/17/2021
Name:  Lisa Crampton
Organization:
City, State, Zip:  ,  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I am supportive of this Plan's balance of stewardship of the natural resources, awareness and consideration of cultural issues, and drive to continue to conduct excellent science and education on the Mauna.
Submittal Number: 145
Date submitted: 10/17/2021
Name: Emma Seymour
Organization:
City, State, Zip: Honolulu, Hawaii  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: TMT is a powerful image for education and job opportunities here in Hawaii. We are losing too many of our young educated people to jobs on the mainland where there are so many more options. Astronomy is so important as a science for the Hawaiian people. That's how they arrived here in the first place. UH has a sound plan in place and must be permitted to implement its excellent plan!
Submittal Number: 146
Date submitted: 10/17/2021
Name: Tehani Maielua
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: Kanaka Maoli are begging UH to stop desecrating the Mauna that has been a sacred part of this island's native culture for generations. Continuing this course of action is racist, anti-indigenous, and continues the long legacy of broken promises that colonialist forces have brought to this land. The hurtful truth is that I don't think the saddened voices and oppositions of Kanaka Maoli will stop you. UH has never cared about it then and it will not shock me if UH continues to not care about it now. Your lack of empathy towards Indigenous cultures and blatant disrespect are evident. Yet, here I am. Another Kanaka Maoli asking that UH stop defiling the sacred mountain of my ancestors and praying that you will listen.
Submittal Number:  147
Date submitted:  10/17/2021
Name:  Sylvia Dahlby
Organization:
City, State, Zip:  Hilo, Hawaii  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Overall, the University of Hawaii has done a fine job of improving the management of Mauna Kea resources over the last 20 years, and while there's always room for improvement, I especially appreciate the University's efforts to obtain a permit and support construction of the Thirty Meter Telescope. I value Hawaii's leadership in exploration and discovery, and I'm proud of the accomplishments of all the telescopes on Mauna Kea in the advancement of human knowledge. The Thirty Meter Telescope will continue this legacy of scientific excellence, international cooperation & collaboration, and STEM education for Hawaii's students. The University has taken many steps to improve its stewardship in response to issues brought to light by those who oppose astronomy on the Mauna. I feel this opposition is directed at the wrong target, and Astronomy is being used as a lightning rod for the Hawaiian Sovereignty movement. Sweeping Astronomy from the Mauna does not advance the righteous cause of social justice, and would be a detriment to the Big Island's economy and higher education system. I hope the UH is doing everything in its power to ensure the continuation of astronomy as a vital part of Hawaiian culture on the mauna, and this includes the decommissioning of legacy telescopes as well as construction of the Thirty Meter Telescope. Mauna Kea is some of the best managed state-owned land in Hawaii, keep up the good work. Imua Astronomy! Imua TMT!
Submittal Number: 148
Date submitted: 10/17/2021
Name: Paula Kamiya
Organization:
City, State, Zip: Waikoloa, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am for the TMT. I am a retired educator and am for this wonderful opportunity to further our knowledge.
Submittal Number: 149
Date submitted: 10/17/2021
Name: Chantell Cambia
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: Stop construction, occupation, and commercialization on stolen Hawaiian lands, especially Mauna Kea. The master plan you (University of Hawai‘i) are continuing TMT telescope development on Mauna Kea should be terminated. You are disregarding the environmental and cultural significance of Mauna Kea and all Hawaiian lands. Consent of Kānaka Maoli (Native Hawaiians) on what is done to their land should be your top priority. Neglecting their voices on what they think of these developments/projects being done to their land is unacceptable. No TMT development. No private lease renewals. Listen to Hawaiians. Give HAWAIIAN LAND BACK TO HAWAIIANS!
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies: I am a resident of Puna, a poorer region of the Big Island. I am alarmed at the extent to which a tiny mob of fanatical extremists has been able to seize control of this important issue via a biased, sympathetic mass media and cowardly politicians. There
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 151
Date submitted: 10/17/2021
Name: Rene Kimura
Organization: UH retired
City, State, Zip: ,
Comments on Missions, Vision, and Values: Important for future
Comments on Goal and Objectives: Essential for Hawaii's role in the world
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 152
Date submitted: 10/17/2021
Name: Rick Wagner
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Go forward with TMT on Mauna Kea. Do not let this chance for the greatest possible observatory on earth slip away! Seize it while we have the opportunity.
Alumnus Rick Wagner, PhD
Submittal Number: 153
Date submitted: 10/17/2021
Name: Joy Memmer
Organization:
City, State, Zip: Hilo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support the TMT process and look forward to the growth and knowledgeable resources it will bring to our island both economically and educational. For now and future generations of mankind.
Submittal Number: 154
Date submitted: 10/17/2021
Name: Thomas Pinkert
Organization:
City, State, Zip: Waikoloa, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii.

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii.

Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 155
Date submitted: 10/17/2021
Name: Pete Wilson
Organization:
City, State, Zip: Pahoa, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 156
Date submitted: 10/17/2021
Name: frederick fogel
Organization:
City, State, Zip: Volcano Village, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Hālepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has been a great steward of Mauna Kea. The revised plan is a good step forward. The majority of residents, and even a majority of Hawaiians, approve the efforts to learn more about our universe on the top of Mauna Kea, one of the best places in the northern hemisphere. The "aina is sacred" argument is pretty lame considering how much the protestors violated the aina. If someone wants to challenge something, their aces in the hole are usually the environment and the courts. The Mauna Kea controversy is no exception. Perhaps paint the structures brown, black or camouflage to make them less visible from the island's perimeter.
Submittal Number:  157
Date submitted:  10/17/2021
Name:  Paul Stomski
Organization:  
City, State, Zip:  Waikoloa, Hi  0
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  I whole heartedly support astronomy in general on Mauna Kea. I know from first hand experience how hard all of the astronomy facilities work to be good stewards of the mountain. And I appreciate the diligence UH put in to create this new version of master plan. Nice job.
Submittal Number: 158
Date submitted: 10/17/2021
Name: Jennifer Denault
Organization:
City, State, Zip: Kahului, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number:  159  
Date submitted:  10/17/2021  
Name:  Norma Vasquez Payne  
Organization: 
City, State, Zip:  Kailua, HI  0 
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments:  I am a descendent of the Teotihuacahn tribe (Aztecas). Every indigenous tribe has imagined what is beyond our lands and ocean. All have looked to the stars and used the heavenly bodies to dictate the path of the future generations. The TMT telescope, (any telescope(s)), and the wonderful stewardship of Mauna Kea by UH must be allowed to continue and progress.
Submittal Number:  160
Date submitted:  10/17/2021
Name:  Melissa Wheeler
Organization:
City, State, Zip:  Naalehu, HI  0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments:  Keep it up!! Get it built!! UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project.  TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion.  I hope UH is doing everything in its power to ensure TMT is built.  Mauna Kea is now some of the best managed state-owned land in Hawaii.  Please keep it up.  Imua TMT
Konveio General Comment Forms

Submittal Number:  161  
Date submitted:  10/17/2021  
Name:  Carey Adkison  
Organization:  
City, State, Zip:  Kailua Kona, HI  0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  As a Big Island Resident I’m appalled at how quickly the various agencies cave to the dissent minority to block amazing opportunities for growth in learning about our universe.
I think the TMT should be built immediately! And this plan, while a good start, needs to decisively establish that the Mauna is for astronomy and that new projects will never have to deal with the ridiculous delays caused by giving tiny groups so much power to delay. The majority want a world class astronomy location and that’s what it shall be!
Submittal Number:  162
Date submitted:  10/17/2021
Name:  Pete Wilson
Organization:  
City, State, Zip:  Pahoa, HI  0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments:  UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number:  163
Date submitted:  10/17/2021
Name:  Victor Lee
Organization:  
City, State, Zip:  ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  UH is doing a wonderful job of managing Mauna Kea for over the 20 years now. And their support for obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project is essential. TMT will be one of the greatest projects to ever be developed in Hawaii, and will benefit many thousands of households throughout our great state. I wholeheartedly support its completion. UH, please keep doing everything in your power to ensure TMT is built. Mauna Kea is one of the best managed state-owned lands in Hawaii, and we despair to see it trashed by protests that leave it defiled with protesters' opala. God bless you and TMT!
Submittal Number:  164  
Date submitted:  10/17/2021  
Name: Joli Kenney

Organization:
City, State, Zip: Honolulu, HI 0

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: I support the renewal of UH's lease and the continued research in astronomy.
Submittal Number: 165
Date submitted: 10/17/2021
Name: Judith Scheu
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am pleased that Hawaii has enjoyed a strong astronomy presence. It has provided educational and economic benefits for our islands. I support the stewardship the UH given and am very hopeful that the proposed telescope will be constructed on Maunakea in the near future.
Submittal Number: 166
Date submitted: 10/17/2021
Name: Lynn Richardson
Organization: Ola'a Banana Co.
City, State, Zip: Hilo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH should be doing everything in its power to ensure TMT is built.
Submittal Number:  167
Date submitted:  10/17/2021
Name:  Marjorie Erway
Organization:  na
City, State, Zip:  Kailua Kona, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up.
Imua TMT!
Konveio General Comment Forms

Submittal Number: 168
Date submitted: 10/17/2021
Name: Michael W Kimball
Organization:
City, State, Zip: Kamuela, 0
Comments on Missions, Vision, and Values: cultural sensitivity
Comments on Goal and Objectives: inclusion of cultural practitioners
Comments on Strategies: consideration of benefits to our community
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR: information and announcements to local residents
Comments on access management facilities: X
Comments on proposal review process: yes, like recent Zoom
Comments on design guidelines:
General/Other comments: overall impact on local Community
global warming down to traffic
Submittal Number: 169
Date submitted: 10/17/2021
Name: Dennis Kim
Organization:
City, State, Zip: Mililani, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: As a native Hawaiian and also of part Rotuman descent, I believe that my ancestors relied on the stars to guide them across the vast oceans. In today's world, I feel that the study of the stars and skies continues that legacy. So I full heartedly support UH's continued research efforts on Mauna Kea. In particular, I believe that the TMT project will give us and future generations new knowledge about our skies and even our planet. Most of my ohana also share this belief.
Mahalo
Submittal Number: 170
Date submitted: 10/17/2021
Name: Marc Davis
Organization: UC Berkeley
City, State, Zip: Berkeley, CA 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
General/Other comments: UH has done an excellent job of managing the Mauna Kea lands it oversees as I have observed first hand since moving to this island in 1993, almost 30 years ago. Being an involved participant in the affairs of the island, and owning a local art gallery that helps to support over 200 Big Island artists for 31 years, I see the value and commitment that UH has to protecting and preserving the Mauna while helping to advance science and education and provide careers for so many in our special place. We promote the activities and advancements of the observatories in our gallery with photographs of the telescopes taken over the years and we act as virtual ambassadors to visitors explaining the activities and discoveries and accomplishments of the scientific community as well. We look forward to many future years of responsible protection of our valuable resources here on Mauna Kea.
Submittal Number: 173
Date submitted: 10/18/2021
Name: Jim Ramacher
Organization: 
City, State, Zip: ,

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: This should be forward looking for Hawaii's astronomy future.

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: I believe TMT would be great for Hawaii economics and scientific reputation.
Submittal Number: 174
Date submitted: 10/18/2021
Name: Steven Mukai
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  175
Date submitted:  10/18/2021
Name:  Peggy Regentine
Organization:  Univ of Hawaii
City, State, Zip:  Honolulu, HI  0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:  TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. It will make a name for our University; it will provide Jobs/careers for our people; It will be a intellectual stimulating curriculum for our c
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives: I strongly support the TMT and the continued study of the heavens using the telescopes on Mauna Kea. Last year’s Nobel Prize in Physics was awarded in part for research done on Mauna Kea. Imua TMT.

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 177
Date submitted: 10/18/2021
Name: Iain Young
Organization:
City, State, Zip: Hilo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: BUILD THE TELESCOPE SO WE CAN LEARN. THAT is what education is about; learning.
Submittal Number: 178
Date submitted: 10/18/2021
Name: Mark Felman
Organization:
City, State, Zip: Kapolei, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: UH has done an adequate job of managing Mauna Kea over the last 20 years, especially noteworthy was obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT would be one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please press for progress on this vital project.
Submittal Number: 179
Date submitted: 10/18/2021
Name: Janet Mitchell
Organization:

City, State, Zip:

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: It’s a great plan, thank you!
Submittal Number:  180  
Date submitted:  10/18/2021  
Name:  Martin Zebzda  
Organization:  
City, State, Zip:  Kihei, Hi  0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  Please don’t let superstition and ignorance cloud us from building the TMT on Mauna Kea. There is no rational reason why it should not be built there. None whatsoever. 
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  It is in Hawaii best interest to build the TMT on Mauna Kea. It is really no decision at all. Those who oppose it argue from ignorance. They are the same type of minds that support QAnon, Anti Vaccinations, Anti-science of global warming, and the Big Election Lie. Please stand up to ignorance. These misguided individuals only hurt all of us. They know not what they do, poor souls…
Submittal Number: 181
Date submitted: 10/18/2021
Name: Jamie Reno
Organization:
City, State, Zip: Paauilo, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhak facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support building the TMT. We know that a majority of people, including Hawaiians, favor this project. Please stop allowing a small minority, including the publicity seekers, the followers, the religious no compromise group, etc. to disrupt this build. We have laws governed by the United States and the the State of Hawaii. Those that break the law should be held accountable. This battle was fought and won in our courts. Do not allow the project to be hijacked. If we don't stand up now for the good type of progress like TMT, we are doomed as a state.
Submittal Number: 182
Date submitted: 10/18/2021
Name: Melissa Virtue
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 183
Date submitted: 10/18/2021
Name: Louis Pau
Organization:
City, State, Zip: Pearl City, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support the astronomy development of Mauna Kea. I also support the removal of older telescopes.
I strongly recommend UH renegotiate the lease agreements and possibly make it triple net to be able to participate in the upside of financial gains.
There also should be a Mauna Kea fee for the observatory similar to common area management (CAM) that is similar to condominiums to help manage the resources and have a slush fund to demolish and remove old telescopes should the parent company be insolvent.
Submittal Number: 184
Date submitted: 10/18/2021
Name: Jim Lee
Organization: Self
City, State, Zip: Keaau, Hi 0

Comments on Missions, Vision, and Values: TMT project is extremely invaluable to future of mankind existing on planet earth. Why? Observe and listen to Elon Musk have to say about multi planetary and transport man to Space station. He cares about Mankind -. Humanity and not his pocket book. The TMK is very essential to his planetary research.

Comments on Goal and Objectives: All are essential for the living of mankind before we before extinct. Before AI, nuclear missile or bomb will hit us meaning WWIII

Comments on Strategies: Set foundation ASAP

Comments on Halepōhaku facilities: Build fast, simple n extremely durable for Long Term application.

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR: I am all for it! Need government aid to assist research. We must share with Aloha with the native Hawaiian.

Comments on access management facilities: X

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 185
Date submitted: 10/18/2021
Name: Nancy W. Withers
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I strongly support TMT.
Konveio General Comment Forms

Submittal Number: 186
Date submitted: 10/18/2021
Name: Patti Mickelsen
Organization:
City, State, Zip: Kohala Coast, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Our Ohana supports the TMT project 100% and applauds the UH efforts to bring it to fruition. The stewardship UH has demonstrated for the Mauna Kea location has been exemplary. The furtherance of scientific exploration of our solar system should be embraced by the State, and people everywhere. Mauna Kea provides some of the most stunning night skies in the world, and is ideal for these endeavors. I hope all these baseless concerns about this project will be seen for what they are - obstructionist tactics by people who do not value science and exploration of our Universe - unlike the ancient Hawaiians, who were amazing explorers and would have applauded these efforts! Imua, TMT!!!
Submittal Number: 187
Date submitted: 10/18/2021
Name: Euclid LoGiudice
Organization:
City, State, Zip: Pahoa, Hawaii 0

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: I've lived in East Hawaii for 43 years and I've worked with many Hawaiians and still do. Most that I personally know agree with me about TMT on Mauna Kea.

I believe that TMT is a positive addition to Astronomy on Mauna Kea and offers opportunities for local people in tech jobs as well as an amazing telescope that will help answer many of the questions people like myself as well as millions around the world have about our place in the universe. The Anti-TMT Kiaʻi movement has spread numerous lies and misinformation about TMT across the globe in an attempt to gain notoriety to further a hidden agenda. TMT does not pollute the aquifer, the Aina nor is it being built on a sacred site on the Mauna. A small group of Kiaʻi have amassed a huge following via social media in the name of protecting a sacred site, using misinformation and even some famous people. TMT is a wonderful instrument for learning that, in my opinion; creates a vehicle for further understanding about our place in the universe and what could possibly be more "sacred" then this? Please: Imua TMT!
Submittal Number: 188
Date submitted: 10/18/2021
Name: George Robinson
Organization: self employed
City, State, Zip: Kealakekua, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: This project will bring prosperity to the Island of Hawaii. The life of the land will be perpetuated in righteousness when we look to the stars and beyond. Hawaii needs to claim its pre-eminent place in the astronomy field. The ancient Hawaiians showed their prowess by navigating here through astronomy and now we can take that to the next level.
Submittal Number: 189
Date submitted: 10/18/2021
Name: Tim Waite
Organization: Kapolei, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 190
Date submitted: 10/18/2021
Name: Tim Waite
Organization: Simpson Strong-Tie Company
City, State, Zip: Kapolei, HI 0
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: We support TMT and astronomy on Mauna Kea
Submittal Number: 191
Date submitted: 10/18/2021
Name: julie shohet
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 192
Date submitted: 10/18/2021
Name: Ralph Shohet
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Native Hawaiians were stellar navigators. TMT continues this tradition. Please don’t let religious obscurantism slow down human progress.
Submittal Number: 193
Date submitted: 10/18/2021
Name: garry smith
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Great plan, it will ensure UH leads the world in astronomy. Please continue with the plans to build the TMT on Mauna Kea. This will provide a world class observatory for the education of the world.
Konveio General Comment Forms

**Submittal Number:** 194
**Date submitted:** 10/18/2021
**Name:** Ryan Dorrill
**Organization:** UH Manoa Graduate
**City, State, Zip:** ,

**Comments on Missions, Vision, and Values:**

**Comments on Goal and Objectives:**

**Comments on Strategies:**

**Comments on Halepōhaku facilities:**

**Comments on management and stewardship facilities in the MKSR:**

**Comments on education, research, and astronomy facilities in the MKSR:**

**Comments on access management facilities:**

**Comments on proposal review process:**

**Comments on design guidelines:**

**General/Other comments:** I'm writing as a former UH grad and Hawaii resident, and scientific PostDoc in Chicago now, to humbly state my support for TMT. While the project has been controversial over the past decade, I believe astronomy is a beautiful way to explore the universe, and one that is uniquely tied to Hawaii and her people. It's also one of the relatively less dangerous, less-harmful sciences in terms of environmental impact, especially with the safety protocols and precautions put in place for TMT, while giving us incredible insight into our place in the universe.

And regardless of whether TMT itself is eventually built or not, I hope astronomy in Hawaii can continue and part of our university, local education system, and outreach efforts throughout the state.
Submittal Number: 195
Date submitted: 10/18/2021
Name: Thomas Giguere
Organization: Amateur astronomer
City, State, Zip: Kapolei, HI 0

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: The new master plan for Mauna Kea provides the vehicle to move forward with the TMT telescope while preserving the environment while respecting native Hawaiian wishes for the mountain. The TMT telescope is an amazing instrument, with cutting edge optics, and will provide all people of Hawaii and the world with the ability to see further into the origins of the universe that we all share.
Submittal Number: 196
Date submitted: 10/18/2021
Name: Melvin Ah Ching
Organization:
City, State, Zip: Honolulu, HI
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: From when I was a little kid astronomy and space travel have always been an interest of mine. I am not in the astronomy or space travel business, but I admire those who study the stars and prepare mankind for more travels beyond our atmosphere.
That all said I am a HUGE supporter of astronomy on the peaks of Mauna Kea. The University of Hawaii should encourage and certainly continue to use the mountain for the study of astronomy. I have read and seen many of the great things that the telescopes have found in the several decades they have been in operation on Mauna Kea.
Astronomy is a GREAT industry for Hawaii; one that can employ hundreds if not thousands of people on the islands directly with many other industries supporting astronomy. This can only be good for our economy and future.
As for the TMT I am in full support of them pushing ahead to get the telescope built. With the volcano eruption on Palmyra Island now messing up observations there, I can't see TMT actually going there in the future. Hawaii is their first choice. They have the legal clearance from the State Supreme Court. Build TMT as soon as possible.

By the way I am PART Hawaiian/Chinese and was born and raised on the Island of Hawaii. I now live in Honolulu but I still consider the Big Island my home.

Don't let the screamingly loud vocal minority of Hawaiian activists with political agendas bigger than TMT get in the way of continued astronomical study and support on Mauna Kea.

Happy observations and I look forward to seeing and reading about more discoveries in the future.

Aloha,
Melvin Ah Ching
Submittal Number: 197  
Date submitted: 10/18/2021  
Name: J H  
Organization:  
City, State, Zip:  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: Mauna a Wākea, also known as Mauna Kea, is the piko (center) of the Hawai‘i Island and its people. This sacred mauna (mountain) is the tallest in the world from the seafloor and a place where traditions, culture and gods live in perpetuity. It is also home to a freshwater aquifer that nourishes all of the people and ‘āina (land) of Hawai‘i Island.

The Mauna Kea movement has often been misrepresented as a clash of culture versus science, but that is inaccurate and a diversion from what is actually on the line. This fight is about Indigenous peoples’ land rights, self-determination, and the protection of their sacred spaces. This is about trying to prevent irreparable damage and contamination of a freshwater aquifer that sustains the people of Hawai‘i Island. This is about a dangerous precedent that would be set by constructing a 30-meter, 18-story structure on an island that, otherwise, would not allow any structure of this height.
Submittal Number: 198
Date submitted: 10/18/2021
Name: Xerxes Tata
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Mauna Kea is among the top observing sites on Earth (if not the top site). UH has the privilege to shepherd the telescopes on Mauna Kea and has done a good job of this over the last many decades. I hope that this will continue in the foreseeable future, and that despite the controversy, will be able to usher in the Thirty Metre Telescope which will be one of the great instruments that will do cutting edge, international-quality science. Facilities such as the TMT will bring positive attention and prestige to UH and diversify the reputation that the state already enjoys as a great tourist destination. As the flagship state university, UH should do help marshal in new scientific and technological projects that use to advantage of the state's geographical location and diversify the economy of the state.
Submittal Number: 199
Date submitted: 10/18/2021
Name: Christopher James
Organization:  
City, State, Zip:  ,
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  I just wanted to voice my support for the TMT project. It is important for Hawaii and humanity. Thank you.
Submittal Number: 200
Date submitted: 10/18/2021
Name: Carol Long
Organization:
City, State, Zip: Wahiawa, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: While I respect our Hawaiian community, I also believe in science. TMT is for the whole world. We need to look toward the future.
Submittal Number:  201  
Date submitted:  10/19/2021  
Name:  Bettie Van Overbeke  
Organization:  
City, State, Zip:  Pahoa, HI 0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  I support TMT as a positive contribution to Hawaii Island, education and scientific discovery. It has everything to offer. I find the constant lies about sewage, water, and power to TMT to be reprehensible. TMT has met all requirements and should be built. TMT will improve life on Hawaii Island. I have lived in Hawaii 33 years and taught science at Pahoa.
Submittal Number: 202
Date submitted: 10/19/2021
Name: Britta Nana Jacobson
Organization:
City, State, Zip: Kailua kona, Hi.  0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: Much Mahalo for your stewardship of Mauna Kea summit lands for the last twenty years. I hope that your continued caretaking continues. I feel that the Big Island is a very special place where both a modern “build back better“ and the legacy of Hawaii c

Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  203
Date submitted:  10/19/2021
Name:  KENNETH SCHMIDT
Organization:
City, State, Zip:  MILILANI, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 204
Date submitted: 10/19/2021
Name: Marian Fieldson
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  205
Date submitted:  10/19/2021
Name:  Richard Marshall
Organization:
City, State, Zip:  Pearl City, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  I just wanted to support the TMT and astronomy as a focus of UH for the students and adults who can seek careers in this field. Hawaii residents are blessed with what may be one of the premier environments for such study, an gifted opportunity not to be wasted which also helps diversify our economy with minimal negative side effects.
Appreciate your time,
Ricard Marshall
**Submittal Number:** 206  
**Date submitted:** 10/19/2021  
**Name:** William Pyle  
**Organization:**  
**City, State, Zip:** Pukalani, Hawaii 0  
**Comments on Missions, Vision, and Values:**  
**Comments on Goal and Objectives:**  
**Comments on Strategies:**  
**Comments on Halepōhaku facilities:**  
**Comments on management and stewardship facilities in the MKSR:**  
**Comments on education, research, and astronomy facilities in the MKSR:**  
**Comments on access management facilities:**  
**Comments on proposal review process:**  
**Comments on design guidelines:**  
**General/Other comments:** The plan looks good, we should stop delaying this and proceed with construction. The very small minority who is objecting consist of less than one-tenth of one percent of the general Hawaii population, and as such they should not really have any say over what is happening up there.
Submittal Number: 207
Date submitted: 10/19/2021
Name: Christopher Tipton
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Given how well UH has managed the lands of Mauna Kea over the past two decades, I support this draft plan. I hope that following the adoption of this plan that the Thirty-Meter Telescope can be constructed.
Submittal Number: 208
Date submitted: 10/19/2021
Name: Kim Magnuson
Organization:  
City, State, Zip: Papaikou, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: I feel the TMT would certainly help education, and science and would be very beneficial to this island. I highly recommend.

Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I definitely support the TMT proposed, as it would benefit so many people for decades. It would be a wonderful learning experience and give our keiki a chance to grow up learning more about the solar system and our part within it. It is not a big polluting industry like much of manufacturing. It doesn't require mining for decades or deforestation and would be very minimal as far as an environmental problem. The jobs created would be well paying and clean. Wishing it a great future and thanks for allowing my input.
Kim T. Magnuson
Submittal Number: 209  
Date submitted: 10/19/2021  
Name: Lynn Beittel  
Organization:  
City, State, Zip: Kamuela, HI 0  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: I strongly support astronomy in Hawaii. In addition to Mauna Kea being one of the best places in the world to study the universe, the observatories have contributed a lot to local communities through hosting and sponsoring educational events and programs for students of all ages. Here are a few that come to mind: AstroDay, Ellison Onizuka Day, The Akamai Workforce Initiative Program, lectures and demonstrations in the public schools, field trips to the summit for high school students from Hawaii Island and other islands, Keck lectures with visiting astronomers, The Waimea Solar System Walk and STEM scholarships for colleges.
Submittal Number: 210
Date submitted: 10/19/2021
Name: GinnyJo Minamishin
Organization:
City, State, Zip: Kailua-Kona, HI 0

Comments on Missions, Vision, and Values: The indigenous people of Hawaii have an internationally recognized human right to self-determine and have over the past 12 years have clearly exercised that right and said “NO” to the building of TMT on Mauna Kea which is “100% stolen Hawaiian lands”.

For decades kanaka maoli have been vigorously advocating for our beloved Mauna Kea, and with the past 12 years have many demonstrations through Hawaii and the world, in opposition to this building of a thirty meter telescope on Mauna Kea. Tens of thousands marched in Protection to save our beloved and sacred Mauna Kea.

Over half a million kanaka maoli, Hawaii residents, as well as world wide have have provided testimony at court hearings, in support of opposing TMT on the summits of our sacred Mauna Kea.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Hello- I'm writing in solidarity with native and indigenous groups who have been fighting to protect Mauna Kea for years. The indigenous people of HI have an internationally recognized human right to self-determination and over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea-- which is 100% on stolen Hawaiian lands. For decades, Kanake Maoli have been vigorously advocating for this protection, including mass demonstrations throughout Hawai‘i and abroad in opposition to building TMT on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings, signed positions and petitions opposing the building of TMT on the summits of Mauna Kea.
Submittal Number: 212
Date submitted: 10/20/2021
Name: Lisa Forkish
Organization:
City, State, Zip: Honomu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I stand in solidarity with the kānaka maoli kia‘i and say NO to building the thirty-meter telescope here on stolen lands. I am a white-bodied immigrant here in the Kingdom of Hawai‘i and I do not support ANY further building or development on Mauna Kea. This is a sacred site for Hawaiians and should be left alone.
Submittal Number: 213
Date submitted: 10/20/2021
Name: Tabitha Bergevin-Krumme
Organization: 
City, State, Zip: ,

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: Native Hawaiians have not concented to this project and your own studies found that previous and ongoing operations of your other telescopes have cased significant environmental and cultural harm. Please do not continue plans or work for this new development and respect the land and people who have lived there for centuries.
Submittal Number: 214  
Date submitted: 10/20/2021  
Name: Curen Ohama  
Organization:  
City, State, Zip: Makawao, HI 0  
Comments on Missions, Vision, and Values: I'm blown away UH still wants the TMT to be built on Maunakea. Why doesn't NO mean NO? There is no sacred way to build it.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number:  215
Date submitted:  10/20/2021
Name:  ALICE ROGERS
Organization:
City, State, Zip:  MILILANI, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Mauna Kea is an extinct volcano - it is primary in viewing the sky and its planets. The Hawaiians are debasing their history - King Kalakaua was an avid star gazer - it is how the Hawaiians got here in the first place from Micronesia or wherever - they are First People not indigenous. They have destroyed parts of Mauna Kea with their protests - they have trampled plants not found elsewhere and killed them. As usual they have left mounds of trash and because they are lazy, have not cleaned anything up. It is probably why they are no longer literate as they were in the last 1800's. They have done nothing notable for years. I totally support the proposed Telescope - which will provide jobs, and information on the heavens. I was born in Kapiolani Hospital.
Comments on Missions, Vision, and Values: Indigenous people of Hawai'i have an internationally recognized right to self-determination and have over the past 12 years clearly exercised that right and said no to the building of TMT on Mauna Kea which is entirely stolen Hawaiian lands. For decades Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of TMT on Mauna Kea. Tens of thousands of people have occupied Mauna Kea and marched to stop the desecration of this sacred mountain. University of Hawai'i's actions to continue building on indigenous Hawaiian's sacred mountain shows that University of Hawai'i has no care or concern for stewardship of the land that was forcefully taken from its rightful caretakers. University of Hawai'i must do better than those that came before and actually listen to the thousands of people demanding you do better and stop building on sacred land. It is time to stop enacting the work of colonizers, and return stewardship and ownership of this sacred mountain to the indigenous Hawaiian's.
Comments on Missions, Vision, and Values: The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 218
Date submitted: 10/20/2021
Name: Mui Ong
Organization:  
City, State, Zip: ,
Comments on Missions, Vision, and Values: Kanaka Maoli have been fighting to protect Mauna Kea for decades. The indigenous people of Hawai'i are exercising their human right to self-determination and opposing the construction of the Thirty Meter Telescope and desecration of stolen sacred lands.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 219
Date submitted: 10/20/2021
Name: Ana Kapihe
Organization: Laughing Buddha
City, State, Zip: Honoka’a, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support science and it’s advancement, not military. Contacting all Kapuna’s in our community would be appreciated! Mahalo
Submittal Number: 220
Date submitted: 10/20/2021
Name: Chariya Terlep-Cabatbat
Organization:
City, State, Zip: , HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I DO NOT CONSENT TO THE BUILDING OF TMT ON MAUNA KEA, EVER.
Submittal Number: 221
Date submitted: 10/20/2021
Name: Korina Makaokalani
Organization:
City, State, Zip: Hilo, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I DO NOT APPROVE OF BUILDING TMT ON MAUNA KEA, EVER.
Submittal Number: 222
Date submitted: 10/20/2021
Name: Olivia Taylor
Organization:
City, State, Zip: Honolulu, HI 0

Comments on Missions, Vision, and Values: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on Goal and Objectives: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on Strategies: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on Halepōhaku facilities: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on management and stewardship facilities in the MKSR: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on education, research, and astronomy facilities in the MKSR: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on access management facilities: X

Comments on proposal review process: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

Comments on design guidelines: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.

General/Other comments: I do not support the building of TMT on Mauna Kea under any circumstances. The Mauna is sacred and irreplaceable to Hawaiians. The telescope will further desecrate the sanctity of that space.
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR: We support the astronomy educational and research facilities on Mauna Kea. The door of this blessing is at Hawaii's hand and we must not allow fear to prevent access to the countless benefits for All of humanity and this door must be kept open for genera

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number:  224  
Date submitted:  10/20/2021  
Name:  Kayley Rolph  
Organization:  
City, State, Zip:  ,  

Comments on Missions, Vision, and Values:  The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and have over the past 12 years clearly exercised that right and said NO to the building of TMT on Mauna Kea which is STOLEN Hawaiian lands  

Comments on Goal and Objectives:  

Comments on Strategies:  

Comments on Halepōhaku facilities:  

Comments on management and stewardship facilities in the MKSR:  For decades, Kanaka Maoli have been vigorously advocating for the protection of sacred lands. For the past twelve years there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the construction of the thirty meter telescope on Maunakea.  

Comments on education, research, and astronomy facilities in the MKSR:  

Comments on access management facilities:  

Comments on proposal review process:  

Comments on design guidelines:  

General/Other comments:  Respect the land and the people of this land that we as non indigenous are all guests on. Stop the destruction of sacred lands!
Submittal Number: 225
Date submitted: 10/20/2021
Name: Aliya Robin
Organization: 
City, State, Zip: 

Comments on Missions, Vision, and Values: Mauna Kea should be immediately returned to the stewardship of native Hawaiians along with monetary compensation to fix the harm that has been done. The continued occupation and desecration of sacred lands is unacceptable. The world and future generations are watching.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR: Over half a million Kanaka Maoli, Hawaii residents, and world citizens have provided testimony at many hearings and signed lots of petitions opposing the creation of TMT on the summits of Mauna Kea. Please listen to there voices and act accordingly.

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 226
Date submitted: 10/20/2021
Name: Sue Pollock
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian Lands.
Submittal Number: 227
Date submitted: 10/20/2021
Name: El Fitzpatrick
Organization:
City, State, Zip: ,

Comments on Missions, Vision, and Values: The indigenous people of Hawai‘i have an internationally recognized human right to self determination and over the past 12 years have used that right to say NO to the building of TMT on Mauna Kea, which is 100% stolen Hawaiian lands.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Comments on Missions, Vision, and Values:  Aloha,
I am writing in solidarity with native and indigenous groups who have been fighting to protect Mauna Kea for years. The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said "NO" to the building of the Thirty Meter Telescope ("TMT") on Mauna Kea, which is located on stolen Hawaiian lands. For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea, which as been made evident by mass demonstrations throughout Hawai'i and abroad in opposition to the building of TMT on this sacred site. Tens of thousands of supports have occupied Mauna Kea and marched in a peaceful plea to stop the desecration of their sacred mountain. Furthermore, over half a million Kanaka Maoli, Hawai'i Residents, and world citizens have provided testimony at countless hearings, signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea. Kanaka Maoli have already endured too much violence on their land and people. Please do not inflict further violence on Kanaka Maoli by building the TMT on Mauna Kea.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 229
Date submitted: 10/21/2021
Name: Kyle Finley
Organization:
City, State, Zip: Ewa Beach, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support astronomy here in Hawaii, and on Maunakea. Over the past few years the protestors have gaslighted our community to be against astronomy by spreading false information ie: size of actual building, claims of nuclear powered, fraudulent claims of embezzlement, even claims of it being a secret military weapon. This group of protestors might yell the loudest but they make up no majority of any group. They will never agree on any plan that includes TMT with zero room to compromise, UH tried and they turned everything down. It’s time the rest of the community get to move forward even though an agreement was not reached between both parties. There is plenty of room on that mountain for science and culture to co exist.
Comments on Missions, Vision, and Values: "Unfortunately, E O I Ka Leo cannot resolve past historical injustices and the consequences inflicted upon and experienced by Native Hawaiians because of them. Neither can it resolve the fundamental question of whether State and Federal policy should continue to endorse astronomy on Maunakea... their resolution is beyond the scope of this Master Plan." The propositions outlined in this plan will have a huge impact on sacred Indigenous land, against the express wishes of Kanaka Maoli who have fought for years to protect it from settler exploitation. Though Native Hawaiians are no monolith, there are thousands upon thousands of Kanaka who have made their opposition to this project known.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR: The Indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years clearly exercised that right. They have said NO to the building of TMT on Mauna Kea, which exists on stolen Hawaiian land.

Comments on education, research, and astronomy facilities in the MKSR: For decades, Kanaka Maoli have advocated for the protection of Mauna Kea -- these mass demonstrations throughout Hawai'i and the world are all in opposition to the building of TMT on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop.

Comments on access management facilities:

Comments on proposal review process: Over half a million Kanaka Maoli, residents of Hawai'i, and people all over the world have provided testimony at countless hearings. They have signed petitions and shown up to demonstrations, opposing the building of TMT on Mauna Kea. Will UH listen to them?

Comments on design guidelines:

General/Other comments: Pitting "science" and "astronomy" against the organized, express wishes of Kanaka Maoli leaders to protect a sacred, irreplaceable mountain is irresponsible and cruel. Hawai'i is a land that is particularly impacted and devastated by settler exploitation and land grabs. Though Kanaka Maoli are not and cannot be "unanimous" in their support for either UH desecration or the protection of Mauna Kea, there is clearly a strong and impassioned core of the Kanaka Maoli community who does not want the TMT on Mauna Kea. There is always the option to respect these wishes and to halt any plans to further impact this precious part of the 'aina.
Submittal Number: 231
Date submitted: 10/21/2021
Name: Stephen Massey
Organization:
City, State, Zip: Paauilo, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Hello, I worked on Mauna Kea for twelve years. I worked at the UH, IRTF, CFHT and Gemini Telescopes. I worked for five of those twelve years full-time at the summit at CFHT and stayed at Hale Pohaku during those years. I know Mauna Kea very well. I also know that it is very well managed and cared for. The planning that goes into that stewardship shows a great deal of consideration for all users and native peoples as well. I think the previous protests against the TMT were instigated and promoted by some very misguided and ignorant factions that are not a considerable part of the voting population here in Hawaii, nor of the true native Hawaiian peoples. I feel that this project needs to move forward and be supported by everyone as a win-win situation for the people of this great State of Hawaii. Please do what you can to allow this to go forward for our Keiki. Aloha, Steve Massey
Submittal Number:  232
Date submitted:  10/21/2021
Name:  Richard Lawyer
Organization:
City, State, Zip:  Waikoloa, Hawaii  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project.  TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion.  I hope UH is doing everything in its power to ensure TMT is built.  Mauna Kea is now some of the best managed state-owned land in Hawaii.  Please keep it up.  Imua TMT!
Submittal Number: 233
Date submitted: 10/21/2021
Name: Ronald Hay
Organization:
City, State, Zip: Waikoloa, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Submittal Number: 234
Date submitted: 10/21/2021
Name: Emma Lipschutz
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The outrageous disregard and disrespect that this and other proposals have on the environment as well as the native Hawaiians is astronomical! Please stop this project now and either commit to fully complying with native Hawaiians or find a different place off of the Hawaiian islands. You cannot prioritize a project like this over the lives and well being of the people who’s land you’re taking. Do not be on the wrong side of history and stop taking and abusing land that isn’t yours.
Submittal Number: 235
Date submitted: 10/21/2021
Name: Jasmine Bell
Organization: University of Texas, Critical Disability Studies
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The indigenous people of Hawaii have repeatedly said over the last 12 years, through demonstrations with thousands of people, countless petitions, countless hearings, and social media. They have an internationally recognized right to self-determination. To frame this plan as in collaboration with them is insidious and disingenuous. I am a long-time fan of astronomy, but to cause harm to indigenous sacred sites is not necessary in furthering the study of astronomy. Please reconsider the harm you are planning to cause.
Submittal Number: 236
Date submitted: 10/21/2021
Name: Gab Bri
Organization: 
City, State, Zip: 

Comments on Missions, Vision, and Values: If we have learned anything from the year plus of social injustice in hope of change, it is to listen to native people and people in communities affected by injustice. Native Hawaiian people have been crying out for over a decade to not proceed with this project, listen to them.

Comments on Goal and Objectives: 

Comments on Strategies: 

Comments on Halepōhaku facilities: 

Comments on management and stewardship facilities in the MKSR: 

Comments on education, research, and astronomy facilities in the MKSR: 

Comments on access management facilities: 

Comments on proposal review process: 

Comments on design guidelines: 

General/Other comments: This open communication is appreciated. I hope that the overwhelming cry from Kanaka Maoli and allies alike will halt this project indefinitely.
Submittal Number: 237
Date submitted: 10/21/2021
Name: Eric Baicy
Organization:
City, State, Zip: Hilo, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The plan is much improved. I encourage you to move forward with it and avoid delays caused by a small group of people.
Submittal Number: 238
Date submitted: 10/21/2021
Name: Kathy Reinhart
Organization:
City, State, Zip: Honolulu, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Kathy A. Reinhart
Submittal Number: 239
Date submitted: 10/22/2021
Name: Wallace Ishibashi
Organization: Community
City, State, Zip: Papaikou, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I concur with this master plan and the vision to malama Maunakea and astronomy.
Comments on Missions, Vision, and Values: Does the mission, vision, and values include the majority opinion/awareness of the Hawaiian public? The lease agreement details and the permitted specified activities in this area should consider the Hawaiian people's thoughts and voices before finalizing the agreement. If not included, the land should be allowed to rest (undisturbed) for a certain few months; perhaps even 1 year out of 7 years to remain protected and untouched, allowing time for the ecosystem to rest and recover.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 241
Date submitted: 10/22/2021
Name: Jon Lindborg
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: Balanced and well-drafted.
Comments on Goal and Objectives: Effective and responsible approach that takes into account all interests.
Comments on Strategies: Well written and balanced.
Comments on Halepōhaku facilities: Very practical approach.
Comments on management and stewardship facilities in the MKSR: Very practical approach.
Comments on education, research, and astronomy facilities in the MKSR: Very practical approach.
Comments on access management facilities: X
Comments on proposal review process: Very practical approach.
Comments on design guidelines: Very practical approach.
General/Other comments: The plan is very balanced in terms of taking into account all views and interests in ensuring effective management of Mauna Kea. I strongly endorse the plan and support its approval.
My name is Auliʻi Ludington and I am currently a student at the University of Hawaiʻi at Mānoa. I am submitting this testimony regarding my opposition to the construction of the Thirty Meter Telescope on Mauna Kea.

While I acknowledge

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 243
Date submitted: 10/22/2021
Name: Daniel Hodel
Organization:
City, State, Zip: Kailua Kona, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii a
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 244
Date submitted: 10/22/2021
Name: Dezeray Griffin
Organization:
City, State, Zip:
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 245
Date submitted: 10/22/2021
Name: Lusidia Reyler
Organization:
City, State, Zip: , 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Native Hawai'ians do not accept this plan. The privilege has been taken, so give the land back. I stand with them to see Hawai'i flourish under native management.
Submittal Number: 246
Date submitted: 10/22/2021
Name: Chris Measures
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: While I understand some groups wishing to preserve the top of Mauna Kea as a religious place, the use of religion to make claims to places over the rights of others is very problematic since it entitles individuals claiming a religious platform a veto over other people's wishes. This would lead to religious totalitarianism which is incompatible with a democratic system of government.
To this reviewer, the outline plan seems a reasonable way to accommodate different points of view and limits the overall impact.
My name is Karalei Wong, and I am a current student at the University of Hawai‘i at Mānoa. I was raised in Kāne‘ohe, O‘ahu where I still reside, and even though Mauna Kea is on Hawai‘i Island, as a Native Hawaiian that values our culture and language, I feel empowered to submit a testimony regarding my opposition to the construction of the TMT on Mauna Kea.

In March of this year, I wrote a letter to House Speaker Scott Saiki regarding Mauna Kea as a new management team was being selected for Mauna Kea. I explained to him the intergenerational trauma that Native Hawaiians face because of events in the past which is deeply rooted in the present and the future. I also outlined the years of mismanagement done by BLNR as well as the University of Hawai‘i. With that being said, the main point of my letter was to urge House Speaker Saiki, his colleagues, and this new management team to listen to the Native Hawaiians’ sentiments and feelings when making decisions about Mauna Kea. All of you know of the cultural and genealogical significance Mauna Kea has to Native Hawaiians, as there are many explanations in this Master Plan as well. Although I would like to believe this new Master Plan had good intentions to make right with Native Hawaiians, their needs and sentiments are still being ignored.

In the 1.4.1 section of this Master Plan, under the objectives, it reads that “Objectives under this Stewardship Goal include affirm[ing] and protect[ing] Maunakea as a wahi pana and wao akua” (1-4). This objective CANNOT be met with the building of TMT on SACRED STORIED LAND or the REALM OF THE GODS. Many people would not want a thirty-meter telescope on their church or home, so Mauna Kea should not be looked at differently.

I appreciate that the University of Hawai‘i and other groups have taken a step back, and have drafted a new plan to try to reach a middle ground with Native Hawaiians, but there is no middle ground with the decades of mismanagement and continued desecration of sacred Mauna Kea. The Native Hawaiian community will continue to hurt if this kind of desecration and cultural negligence in their homeland persists. Thank you for creating an open dialogue in regards to this Master Plan of Mauna Kea. I hope you all will continue to listen and act in the interests of the Native Hawaiian community, not just those of the astronomy community.

Sincerely,
Karalei Wong
Submittal Number: 248
Date submitted: 10/23/2021
Name: Marianne Kelley
Organization:
City, State, Zip: Kula, Hi 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I am in favor of completing the TMT project. It is an honor for Hawaii and will provide a lasting resource for our children.
Submittal Number: 249
Date submitted: 10/23/2021
Name: Patricia Saiki
Organization: 
City, State, Zip: ,

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT!
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: Please don’t build this telescope on the Mauna, you already built the H3 on sacred lands. Please stop destroying cultural history!
Comments on management and stewardship facilities in the MKSR: I am demanding the immediate halt to the construction of the TMT, 30 Meter Telescope on Mauna Kea, Island of Hawai‘i. The TMT will cause harm to the mountain and destroy a sacred place for Kanaka Maoli’s spiritual and cultural practices. I oppose any cons...
Comments on Missions, Vision, and Values: There is no value in a plan that fails to acknowledge what Kanaka Maoli have been advocating for for years. Hawaiians are mistreated and ignored on our very own land, and the irony is that we get no voice (or very little representation) in our government, in education, and in anything that impacts Hawai‘i as a whole. The anti-indigeneity of of a school “committed” to furthering Native education is appalling, and if you continue to exploit Hawaiian land and people, then you need to seriously rethink your relationship you have with Hawai‘i’s land, resources, and people.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 253
Date submitted: 10/25/2021
Name: Ty Yun
Organization: --
City, State, Zip: Kamuela, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of the Thirty Meter Telescope (TMT) project. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea is now some of the best managed state-owned land in Hawaii. Please keep it up. Imua TMT
Comments on Missions, Vision, and Values: Please find KAHEA: The Hawaiian-Environmental Alliance’s comments on the University of Hawai‘i at Hilo (University) Draft Master Plan for the University of Hawai‘i Maunakea Lands, dated September 12, 2021 (master plan) below.

The University has asked the public to comment on its master plan. This is an impossible task because the University cannot write a master plan for Mauna Kea. If we have learned anything over the past half century of struggle for Mauna Kea, it is that neither the University, nor the Board of Land and Natural Resources, unilaterally control this mauna.

This is not KAHEA’s lone opinion. The master plan itself underscores the fact that neither UH nor BLNR control the mauna. The master plan claims the University is uniquely positioned to “steward” Mauna Kea because “especially Native Hawaiians” have taught it “important lessons”, yet the plan acknowledges only one “ultimately unsuccessful, effort was made to discuss the restructuring alternatives with Hawai‘i Island kia‘i.” Master plan at 2, 11. The master plan also includes dozens of clauses restricting the development of new facilities and requiring observatory site “recycling”, but allows for the construction of the Thirty-Meter Telescope on an entirely untouched area of the summit. The master plan accommodates “expected continued growth in demand for [visitor] experiences on Maunakea,” yet the plan comes on the heels of the University’s new rules, which restrict and burden Kāna‘ka Maoli cultural practitioners’ access and use of Mauna Kea. HAR chapter 20-26.

The master plan’s prefatory “commitment” recognizes the University’s historic failure “in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as [University entities] make decisions[,]” yet the University continues to hold itself apart, and practically presumes its continued control over Mauna Kea. Only in one footnote does the master plan note the University may be formally required to relinquish control:

. . . . The General Lease expires at the end of 2033, before the Master Plan’s 20-year planning horizon. This Master Plan is essential to the University’s management efforts at least until 2033. After 2033, if the University is not granted a land authorization that includes the [Mauna Kea Summit Region], whatever entity takes the University’s place might adopt some, all, or none of this Master Plan in its planning efforts.

Page 2-1, n.11. The University’s retention of these lands is far from a foregone conclusion. The University master lease (GL No. S-4191, June 1968) is expiring in 2033. While we disagree with his methods and intent, the state House speaker at least recognized the need to question the University’s role. The House convened [a] Mauna Kea working group to address management alternatives that has been meeting throughout 2021 and will deliver recommendations at the end of 2021. See House Resolution No. 33 (2021). Even the University’s own Board of Regents sought “an in-depth analysis [to] be done to determine whether the management of the Maunakea Science Reserve would be better served if transferred to a governmental authority or other third party entity, or through alternate management mechanisms (e.g., conservation easement agreement, etc.).” Master plan Appx. C (Resolution No. 19-03 ¶9, University of Hawai‘i Board of Regents Nov. 6, 2019). The University never provided that in-depth analysis and the Board of Regents did not demand it from them. This was a mistake.

Even a cursory analysis would have shown that any alternative would be better than the University’s apparent plan to continue its embattled role of catering to commercial and government stakeholders. Instead, the University can help to amplify and enable the careful work being conducted by communities who are committed to protecting what is sacred, ancient, and life-giving about Mauna Kea. This is going to have to start with scrapping the University’s presumption to, on its own or through its consultants, manage Mauna Kea or to decide its future.

Comments on Goal and Objectives: Please find KAHEA: The Hawaiian-Environmental Alliance’s comments on the University of Hawai‘i at Hilo (University) Draft Master Plan for the University of Hawai‘i Maunakea Lands, dated September 12, 2021 (master plan) below.

The University has asked th

Comments on Strategies: Please find KAHEA: The Hawaiian-Environmental Alliance’s comments on the University of Hawai‘i at Hilo (University) Draft Master Plan for the University of Hawai‘i Maunakea Lands, dated September 12, 2021 (master plan) below.

The University has asked th

Comments on Halepōhaku facilities: Please find KAHEA: The Hawaiian-Environmental Alliance’s comments on the University of Hawai‘i at Hilo (University) Draft Master Plan for the University of Hawai‘i Maunakea Lands, dated September 12, 2021 (master plan) below.
The University has asked the public to comment on its master plan. This is an impossible task because the University cannot write a master plan for Mauna Kea. If we have learned anything over the past half century of struggle for Mauna Kea, it is that neither the University, nor the Board of Land and Natural Resources, unilaterally control this mauna.

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The master plan’s prefatory “commitment” recognizes the University’s historic failure “in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as [University entities] make decisions[,]” yet the University continues to hold itself apart, and practically presumes its continued control over Mauna Kea. Only in one footnote does the master plan note the University may be formally required to relinquish control:

. . . . The General Lease expires at the end of 2033, before the Master Plan’s 20-year planning horizon. This Master Plan is essential to the University’s management efforts at least until 2033. After 2033, if the University is not granted a land authorization that includes the [Mauna Kea Summit Region], whatever entity takes the University’s place might adopt some, all, or none of this Master Plan in its planning efforts.

Page 2-1, n.11. The University’s retention of these lands is far from a foregone conclusion. The University master lease (GL No. S-4191, June 1968) is expiring in 2033. While we disagree with his methods and intent, the state House speaker at least recognized the need to question the University’s role. The House convened [a] Mauna Kea working group to address management alternatives that has been meeting throughout 2021 and will deliver recommendations at the end of 2021. See House Resolution No. 33 (2021). Even the University’s own Board of Regents sought “an in-depth analysis [to] be done to determine whether the management of the Maunakea Science Reserve would be better served if transferred to a governmental authority or other third party entity, or through alternate management mechanisms (e.g., conservation easement agreement, etc.).” Master plan Appx. C (Resolution No. 19-03 ¶9, University of Hawai‘i Board of Regents Nov. 6, 2019). The University never provided that in-depth analysis and the Board of Regents did not demand it from them. This was a mistake.

Even a cursory analysis would have shown that any alternative would be better than the University’s apparent plan to continue its embattled role of catering to commercial and government stakeholders. Instead, the University can help to amplify and enable the careful work being conducted by communities who are committed to protecting what is sacred, ancient, and life-giving about Maunakea. This is going to have to start with scrapping the University’s presumption to, on its own or through its consultants, manage Mauna Kea or to decide its future.

**Comments on management and stewardship facilities in the MKSR:** Please find KAHEA: The Hawaiian-Environmental Alliance’s comments on the University of Hawai‘i at Hilo (University) Draft Master Plan for the University of Hawai‘i Maunakea Lands, dated September 12, 2021 (master plan) below.

The University has asked th

**Comments on education, research, and astronomy facilities in the MKSR:**

**Comments on access management facilities:**

**Comments on proposal review process:**

**Comments on design guidelines:**

**General/Other comments:** Please find KAHEA: The Hawaiian-Environmental Alliance’s comments on the University of Hawai‘i at Hilo (University) Draft Master Plan for the University of Hawai‘i Maunakea Lands, dated September 12, 2021 (master plan) below.

The University has asked the public to comment on its master plan. This is an impossible task because the University cannot write a master plan for Mauna Kea. If we have learned anything over the past half century of struggle for Mauna Kea, it is that neither the University, nor the Board of Land and Natural Resources, unilaterally control this mauna.

This is not KAHEA’s lone opinion. The master plan itself underscores the fact that neither UH nor BLNR control the mauna. The master plan claims the University is uniquely positioned to “steward” Mauna Kea because “especially Native Hawaiians” have taught it “important lessons”, yet the plan acknowledges only one “ultimately unsuccessful, effort was made to discuss the restructuring alternatives with Hawai‘i Island kia‘i.” Master plan at 2, 11. The master plan also includes dozens of clauses restricting the development of new facilities and requiring observatory site “recycling”, but allows for the construction of the Thirty-Meter Telescope on an entirely untouched area of the summit. The master plan accommodates “expected continued
growth in demand for [visitor] experiences on Maunakea,” yet the plan comes on the heels of the University’s new rules, which restrict and burden Kānaka Maoli cultural practitioners’ access and use of Mauna Kea. HAR chapter 20-26.

The master plan’s prefatory “commitment” recognizes the University’s historic failure “in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as [University entities] make decisions[,]” yet the University continues to hold itself apart, and practically presumes its continued control over Mauna Kea. Only in one footnote does the master plan note the University may be formally required to relinquish control:

. . . . The General Lease expires at the end of 2033, before the Master Plan’s 20-year planning horizon. This Master Plan is essential to the University’s management efforts at least until 2033. After 2033, if the University is not granted a land authorization that includes the [Mauna Kea Summit Region], whatever entity takes the University’s place might adopt some, all, or none of this Master Plan in its planning efforts.

Page 2-1, n.11. The University’s retention of these lands is far from a foregone conclusion. The University master lease (GL No. S-4191, June 1968) is expiring in 2033. While we disagree with his methods and intent, the state House speaker at least recognized the need to question the University’s role. The House convened [a] Mauna Kea working group to address management alternatives that has been meeting throughout 2021 and will deliver recommendations at the end of 2021. See House Resolution No. 33 (2021). Even the University’s own Board of Regents sought “an in-depth analysis [to] be done to determine whether the management of the Maunakea Science Reserve would be better served if transferred to a governmental authority or other third party entity, or through alternate management mechanisms (e.g., conservation easement agreement, etc.).” Master plan Appx. C (Resolution No. 19-03 ¶9, University of Hawai’i Board of Regents Nov. 6, 2019). The University never provided that in-depth analysis and the Board of Regents did not demand it from them. This was a mistake.

Even a cursory analysis would have shown that any alternative would be better than the University’s apparent plan to continue its embattled role of catering to commercial and government stakeholders. Instead, the University can help to amplify and enable the careful work being conducted by communities who are committed to protecting what is sacred, ancient, and life-giving about Mauna Kea. This is going to have to start with scrapping the University’s presumption to, on its own or through its consultants, manage Mauna Kea or to decide its future.
Submittal Number: 255
Date submitted: 10/25/2021
Name: Markus H
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: I strongly support the use of Mauna Kea for the noble pursuit of astronomical discovery which benefits all of humanity.
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 256
Date submitted: 10/25/2021
Name: Elizabeth Miller
Organization:
City, State, Zip: Volcano, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I and my entire family whole heartily supports the building of the TMT on Mauna Kea and the revised UH management plan. For a group of anti-science protesters to have the hubris to claim the mountain belongs only to them and therefore gives them the right to obstruct a project that would greatly expand the entire world's understanding of our place in the universe has not only damaged Hawaii's reputation in the international scientific community but polarized the residents of this island. From the beginning, the intent of the TMT project has been to collaborate WITH the Hawaiian culture, not against it, like Hawaii Island's world class astronomy center at Imiloa has done. So many Hawaiians are FOR the TMT. They want all the new discoveries made at the TMT telescope to have Hawaiian names, for Hawaiians students to get the scholarships and become the star astronomers we see featured on NOVA science programs. Let THEM be the voices that are heard and lead this project forward! I feel passionate about this, and MAHALO for your consideration.
Submittal Number: 257
Date submitted: 10/25/2021
Name: Alexandra Alexandra
Organization:
City, State, Zip: , 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: It’s time for our local government and big business to start listening to the people. The people don’t want TMT. The people will not benefit from this project so the incentive isn’t there for us. While I don’t personally hold the mauna as a place of spiritual significance, others do and they have the right to practice their religion without your interference in their space.
Submittal Number: 258
Date submitted: 10/25/2021
Name: Lyn Ishizaki-Brown
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: The TMT and construction on Mauna Kea will mean the desecration of a sacred site. Respect Hawaiian sovereignty and protect Mauna Kea, end the plans for TMT.
Comments on Management and Stewardship facilities in the MKSR:
Comments on Education, Research, and Astronomy facilities in the MKSR:
Comments on Access Management facilities:
Comments on Proposal Review Process:
Comments on Design Guidelines:
General/Other comments: I understand the importance of education and discovery, but not when it involves desecrating Indigenous land. Native Hawaiians have had to contend with settlers bringing in diseases, abusing kūpuna/keiki, stealing their land and taking their resources. The TMT is just another way of taking/ruining Hawaiian land. The building of the telescope will also endanger native flora and fauna. Can't the telescope be built on non-sacred land?
The decades of UH mismanagement of Maunakea have been well-documented. UH has proposed this new Master Plan in the hopes of balancing the many competing interests regarding the Mauna. But I believe UH must adopt a fundamental reframing in its plan for the “management” Maunakea. We have seen the way controversy over observatory development has torn the Hawaiian community apart, and UH has undeniably played a large role in that. Decades of broken promises culminated in the need for kia‘i to literally place their bodies on the line to be heard by the University and the state. This is unacceptable. The new UH Master Plan must come from humble recognition of these facts. Though it may be too late, UH must at least try to first regain the trust of the people whose land it claims to “steward.” The proposed Master Plan fails to do this, and is little different than the plan that was proposed 20 years ago. UH should draft a new plan that, at a minimum, prioritizes the creation of robust processes for receiving and implementing community input, that definitively puts an end to TMT construction, and that seeks community input with regard to telescope decommissioning.

THE MASTER PLAN FAILS TO PROVIDE A PROCESS FOR PUBLIC INPUT THAT WOULD GUIDE INTERNAL UH EVALUATION OF FUTURE PROJECTS.

UH states that the new Master Plan will provide “mechanisms to seek and consider input from the native Hawaiian community and the broader community in the decision-making framework.”[1] However, the Master Plan fails to propose a concrete process for meaningfully seeking this input. The process outlined in Chapter 6 describes a complex, 4-Phased review process that future proposals would have to go through before being approved. It is not until Phase 3/4 that any opportunities for public input are identified, and even there, it is not clear what form “public input” would take.[2] Instead, the Master Plan seems to rely on other mechanisms and bodies, such as MKMB, KKM, or the DLNR, to collect public input and incorporate it into their assessment processes and recommendations. This reliance is inadequate for two reasons. First, even if MKMB and KKM were to establish avenues for public input, kia‘i and other advocates have raised concerns about the capacity for groups like MKMB and KKM to represent the broader public and Kānaka Maoli in particular;[3] the failure and inability of state agencies like the DLNR to meaningfully consider public input goes without saying.[4] Second, UH has a duty to establish its own processes for soliciting public input. UH views its “management” of Maunakea as a responsibility and a “privilege;”[5] and part of its plan for “management” must, at a minimum, include a regular process for public input. That the Master Plan does not even include a shred of commentary as to the urgent need for, and design of, some standard consultation process betrays the Master Plan’s stated goals of “Stewardship” and “Balance.” If UH seeks transparency, to “e o i ka leo,” this Master Plan cannot proceed without establishing a method for meaningful internal consideration of public input in Phase 1 of each proposal.

UH MUST DEVELOP A PROCESS FOR MEANINGFULLY RECEIVING, CONSIDERING, AND IMPLEMENTING INPUT FROM KĀNAKA MAOLI.

UH must put forward both a robust process for receiving public input, and guidelines for how that input will be received, considered, and implemented. For far too long, state agencies have provided forums for public input, but declined to meaningfully consider it.[6] While UH is not alone in its need to incorporate public input, it cannot rely on other agencies like the DLNR to do so, especially when the DLNR does not become involved in project proposals until the second or third phase of review.
But more importantly, UH must radically reframe its commitment to community input and feedback by prioritizing Kānaka Maoli voices early on. Yes, Hawai‘i is a diverse community with many diverse groups and concerns. But – said as a fifth-generation non-Native – these are stolen lands, and families like mine owe everything to the Indigenous people who have unwillingly allowed us to remain on these islands for generations. When it comes to land “development,” priority – not just consideration – must be given to the voices of the people who are the lands’ ancestral caretakers, whose connections to the land predate our ancestors’ arrivals, and who have been systematically excluded from these conversations for far too long. This is true for all of Hawai‘i, but especially so for lands as sacred and significant as Maunakea.

I acknowledge that the range of opinions regarding Maunakea within the Native Hawaiian community is diverse, and that it is not my place to speak toward them. Regarding a process for consultation, however, a starting point for developing meaningful consultation can potentially be derived through the process described by the UN Declaration of the Rights of Indigenous Peoples (UNDRIP) as “Free, Prior, Informed Consent” (FPIC).[7] (Personally, however, I believe that FPIC is too weak of a framework to ensure that Native Hawaiian rights are protected on Maunakea, especially where the U.S. government has interpreted “FPIC” to mean “consultation” – the model that arguably already exists for Maunakea.)

Equally important, as discussed above, is UH’s commitment to incorporating, not simply addressing and disregarding, the input that it receives. UNDRIP may be a starting place for this, and other places have taken steps to protect sacred Indigenous lands as well. For example, the steps that Aotearoa (New Zealand) has taken to create legal protections for Māori land.[8] UH must do more than simply respond to negative comments and plow forward with development – this will do nothing to accomplish UH’s stated goals of “Stewardship” and “Balance.” Rather, UH must make a commitment to honoring the opinions and interests that the community expresses, even where it comes at the expense of the University’s definition of “progress.” It can start by rewriting this Master Plan.

UH MUST COMMIT TO PUTTING AN END TO TMT CONSTRUCTION AND MUST NOT ALLOW OTHER OBSERVATORIES TO BE BUILT IN ITS PLACE.

It is pointless and impossible for UH to act “neutral” on the issue of TMT, in claiming to plan for both possibilities of whether or not it is constructed. Kānaka Maoli have made their position clear on the issue of TMT construction: it must not go through. The Master Plan, despite its stated desire to create a “mechanism” for public input, completely disregards this position. If UH really hopes to regain the trust of the community and do good by its kuleana to “manage” Maunakea lands, taking a stand against TMT is the first and most obvious thing it must do. Rather, the Master Plan exacerbates the problem by creating a plan in which, should TMT not get built, another observatory would be allowed to take its place. This is absolutely ridiculous and betrays the fact that, despite its claims of valuing community input, UH has learned nothing from the public outrage over TMT or any of the telescopes before it.

UH must acknowledge its failures to consult Kānaka Maoli, and the community, in its role throughout the TMT permitting process. It must also recognize the devastating impact that the TMT controversy has had on the Hawai‘i community as a whole. It may be that it is too late for UH to ever regain the trust of the Hawaiian and greater Hawai‘i community as a responsible caretaker of Maunakea. But if UH hopes to create a future that can heal these wounds on any level, it must abandon plans for TMT (or any other telescopes on that site), recognize and apologize for its failures, and begin first by listening.

THE MASTER PLAN’S POSITION ON DECOMMISSIONING IS WEAK AND MUST BE REFORMULATED WITH COMMUNITY INPUT.

UH mentions the “fortification of UH’s commitment of no more than nine operating astronomy facilities in Maunakea by December 31, 2033.”[9] The implication that there will be “nine operating astronomy facilities” is misleading – including the UH Hilo Educational Telescope, there will be ten. Furthermore, this is the same commitment that UH made to decommissioning 20 years ago, and only one of three astronomy facilities remains on schedule to be decommissioned. Excuses about how complicated the process is, or how long it takes, are unacceptable; the observatories are run by large corporations who have not only the resources but the time to plan for timely decommissioning. Rather, the delay in decommissioning, and UH’s ambivalence about it, again exemplifies the disrespect UH has historically shown toward the lands as sacred and significant as Maunakea.

Here is one suggestion, and I welcome others: If UH wishes to propose a schedule for decommissioning that is acceptable, it should start with community input. UH should take the time to explain to the community the pros and cons of decommissioning, as well as the implications, consequences, and alternatives. Be transparent and realistic about how long the process will take. Do not go first to the telescopes and see what would work for them, then build a “commitment” around their timeline, then fail to even follow through with it. It is too late, and there is too much damage done, for UH to think it has the leeway or respect to do it any other way.

This comment is not able to discuss the UH Hilo Educational Telescope, the Multi-disciplinary Field Station, or the Master Plan’s stated intentions to increase cultural education regarding Maunakea. However, regarding each of these proposals, I reiterate the need to begin with community consultation first, not seek community approval later. While no one opposes STEM educational opportunities, or building greater appreciation for native Hawaiian culture, it cannot be at the expense of
meaningful consultation and cultural desecration. The question is not—and has never been—one of “Hawaiians versus astronomy.” It is one of respect for the Indigenous people of Hawai‘i and their right to determine what takes place on their land.

ENDNOTES


4. Consider the years of “public input” regarding TMT that were disregarded again and again by varying state departments. During the scoping process for TMT, hundreds of comments were submitted by Hawaiian activists, cultural practitioners, environmental activists, and community members, objecting to TMT’s construction. The required Environmental Impact Statement found that “impacts would continue to be substantial, significant, and adverse with the consideration of the Project (TMT) and other reasonably foreseeable future actions.” The EIS nevertheless concluded that the construction of TMT would “add a limited increment to the level of cumulative impact, but would not tip the balance of any specific cumulative impact from a less than significant level to a significant level.” The BLNR—and the Hawai‘i Supreme Court in the subsequent 2018 court challenge—likewise granted TMT the necessary permits for its football stadium-sized structure.


6. For example, in prefacing its findings, the EIS for Maunakea made a deliberate distinction between “two broad categories of opinions”: (1) Those who believe that Hawaiian culture and astronomy can coexist on Maunakea, and therefore that any adverse cultural impact can be minimized in significance by mitigating measures, and (2) those who believe that any development or disturbance of Maunakea by someone other than a native Hawaiian is “desecration to the spiritual and sacred quality of the mountain.” The EIS mentions the existence of the second, but proceeded to draw all of its conclusion according to the first, essentially disregarding the latter opinion as irrational and irrelevant to their decision.

7. See quote from Laulani Teale in Mauna Kea Protectors Oppose UH Maunakea Master Plan, MAUI NOW (Oct. 8, 2021) [available at https://mauinow.com/2021/10/08/mauna-kea-protectors-oppose-uh-maunakea-master-plan/]; United Nations Declaration of the Rights of Indigenous Peoples (“No relocation shall take place without the free, prior and informed consent of the indigenous peoples concerned and after agreement on just and fair compensation and, where possible, with the option of return.”).


Konveio General Comment Forms

Submittal Number: 261
Date submitted: 10/25/2021
Name: Bonnie Bator
Organization: 'Ohana
City, State, Zip: ,

Comments on Missions, Vision, and Values: Protection of Maunakea hasn't been shown by UH-Hilo in the past four decades and more

Comments on Goal and Objectives: Maunakea stewardship by UH-Hilo has been severely lacking... Please give up Maunakea to "Ku Kia‘i Mauna" The True Protectors of Maunakea

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: 24 October 2021

Board of Regents (BOR) and To Whom It May Concern

SUBJECT ‘draft Master Plan for the University of Hawaii Maunakea Lands 'review’

ALOHA! The University of Hawaii manages Maunakea with a 65-year lease that is due to expire in 2033 - in ten years

ALL the damage to sacred Maunakea in fifty-five years is sacrilegious ~ why has the University of Hawaii waited fifty-five years to suddenly 'care' about Maunakea - to produce a draft Master Plan for managing Maunakea?

We, feel that as Maunakea is part of the ceded lands trust for the explicit good of Native Hawaiians and the General Public = leasing her for the collective sum of $1.00 a year by the wealthiest nations on earth is a breech of upmost common sense. Native Hawaiians' are houseless in their own homeland, they bare witness to alarming health statistics, are an endangered species and Maunakea gets trashed for the purpose of a multi-billion dollar astronomy industry - for a mere $1.00 a year ? !

Schools across Hawaii Nei are in deplorable shape, rampant substance abuse reigns amongst the population, as people 'self-medicate' to escape inequities: here is one glaring inequity - the continued rape and plunder of sacred Maunakea.

The focus of Maunakea ALL these decades has been her "development" for astronomy, notice the word "FOR" "For Who ? "

ALL that $ $ $ - sure isn't going to Native Hawaiians' and the General Public...

Protection of traditional cultural sites, endangered species, water quality, protection of habitat and public access have been deleted from the agenda in the past five decades of management by University of Hawaii. Atrocious track record ! ! ! ! !

The University of Hawaii is the developer of expansion of industry atop Maunakea with the TMT - we believe that the protection, preservation, and conservation of Maunakea is incongruent with the proposed TMT.

"If" the University of Hawaii truly 'cares' about Maunakea then the sincere step would be to STOP the proposal of TMT. Also, transparency... THIS format for offering public comment on the "draft Master Plan for the University of Hawaii Maunakea Lands" is junk

Why is it under the control of the University of Hawaii... Humbug that people cannot just email their comments by regular email ? !

PLEASE, in the next comment period on THIS subject, which would be the final Master Plan... let people just email the University of Hawaii, PLEASE ! ! ! ! !

MAHALO Plenty ! ! !
Aloha ‘Aina
Sincerely With ALOHA,
Bonnie P. Bator and ‘Ohana ( Keana‘aina, Keli‘ikoa, Kai’aokamalie, Kai )
P.S. Please keep us on the United States Postal Service ( USPS ) mailing list for any future updates on this draft master plan and final master plan: MAHALO
The Master Plan fails to hear the voices of the hundreds of thousands of constituents who have clearly stated that the TMT project on Mauna Kea is unwanted. It especially fails to hear the voices of the vast majority of Hawai‘i’s only Indigenous people, the kānaka ‘ōiwi, who say ‘a’ole TMT! It leaves open the opportunity for the TMT project to happen even if it’s not for another 50 years.

UH has failed to manage Mauna Kea properly for the past 50 years that it has held the lease making it extremely questionable as to whether continuing the lease for another 50 years would be smart. The result of their mismanagement includes pollutants being left on the Mauna, inadequate representations to the local community, and a continued silencing of Kānaka ‘ōiwi voices in relation to proper care of such an important place. The Master Plan’s inclusion of the TMT project as one it would support provides proof that UH is not ready to make needed change to the way it goes about conducting care of Mauna Kea.

For these reasons, the Master Plan should be rejected and UH should not be given the opportunity to continue to hold a lease over Mauna Kea.

Mahalo,

Noel Shaw
Submittal Number: 263
Date submitted: 10/25/2021
Name: Katherine Sammler
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: We question the ethics of this space science project. Colonial relations of domination are (re)produced through the assembling of apparatuses in particular places and the coordinated efforts of putting them to work in the service of colonial expansion to offplanet spaces. TMT is exactly such an apparatus. We need to be explicitly anti-colonial, as coloniality is foundational to the practices of contemporary space science and imaginaries of space “exploration.” There cannot be an ethical engagement with the lands of other planets when such science projects are rooted in exploitative colonial relations on Earth. Such projects will always be colonies.
Submittal Number: 264
Date submitted: 10/25/2021
Name: Theresa Brecker
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines: Nothing should be constructed on the Mauna Kea ever
General/Other comments:
Konveio General Comment Forms

**Submittal Number:**  265  
**Date submitted:**  10/25/2021  
**Name:**  Luana Jones  

**Organization:**  
**City, State, Zip:**  Pahoa, HI  0

**Comments on Missions, Vision, and Values:**  
**Comments on Goal and Objectives:**  
**Comments on Strategies:**  
**Comments on Halepōhaku facilities:**  
**Comments on management and stewardship facilities in the MKSR:**  
**Comments on education, research, and astronomy facilities in the MKSR:**  
**Comments on access management facilities:**  
**Comments on proposal review process:**  
**Comments on design guidelines:**  

**General/Other comments:**  TMT ~ Too Many Telescopes Already!  
Take some down Priority!  
No further desecration of the Wao Akua ~ Elemental Community (Watershed, Flora & Fauna, Etc.)
Konveio General Comment Forms

Submittal Number: 266
Date submitted: 10/25/2021
Name: Taylor Taylor
Organization:
City, State, Zip: Vancouver, WA 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The people of Hawaii have been extremely outspoken about their views and beliefs surrounding Mauna Kea. They do not want you there. They do not want a giant telescope there. It is spiritual and ancestral land which you have no right to, and it would be an absolutely shameful decision that would mark UH in history books along the lines of other colonizers, if your organization were to take it. So, don't. Listen to the people, who have been speaking about this for years. The world knows what is going on, and we are all watching.
Submittal Number: 267
Date submitted: 10/25/2021
Name: Tina Karagulian
Organization:
City, State, Zip: , TX
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The decision to put in a telescope without the full cooperation of the community lacks consent of the people and is a violation of sacred land. I am against this use of power and against this project moving forward in this manner.
Submittal Number: 268
Date submitted: 10/25/2021
Name: Rosalie Hobbs
Organization:
City, State, Zip: Wai'anae, Hawai‘i 0

Comments on Missions, Vision, and Values: The continuous pursuit of TMT, as well as the remaining telescopes already sitting on Maunakea shows the native community and our values just how much blatant disregard the UH system has for us. It's shameful for you to think you can suddenly get our stamp of approval when THERE WAS NO CONSENT GIVEN IN THE FIRST PLACE! You desecrated a wahipana without batting an eye, and only began this process of talk story because you got caught. TMT is hewa. The fact you're dragging your feet to clean up all the other telescopes is HEWA. The University of Hawaii is a public college, UH does not represent the Native Hawaiian people, therefore UH should stop acting like everything they do supports the Hawaiian people. Take accountability, and end your participation in this project.

Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number:  269
Date submitted:  10/25/2021
Name:  Markus Abayan
Organization:
City, State, Zip:  Daly City, California  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Konveio General Comment Forms

Submittal Number: 270
Date submitted: 10/25/2021
Name: Gabriel Gonzalez Gonzalez
Organization: Gabriel Gonzalez
City, State, Zip: Covina, CA 0

Comments on Missions, Vision, and Values: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them!

Comments on Goal and Objectives: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

Comments on Strategies: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

Comments on Halepōhaku facilities: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

Comments on management and stewardship facilities in the MKSR: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

Comments on education, research, and astronomy facilities in the MKSR: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

Comments on access management facilities: X

Comments on proposal review process: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

Comments on design guidelines: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them

General/Other comments: The Indigenous people of Hawaii have made it very clear there will be no telescope built on Maunakea. I stand with them
Submittal Number: 271
Date submitted: 10/25/2021
Name: Lilly Fisher
Organization:
City, State, Zip: Honolulu, HAWAII 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The indigenous people of Hawai‘i have an internationally recognized right to self-determination and have, for over a decade, exercised that right to say "No" to the construction of TMT on Mauna Kea, in the forms of public comments, hearing testimony, petitions, demonstrations, and marches. Given this, I don't see how this master plan meets the stated goal in part I to "fulfill their responsibilities to the mauna and to one another" while ignoring the voices and sovereignty of Kanaka Maoli.
Submittal Number: 272
Date submitted: 10/26/2021
Name: Cheryl Farrell
Organization: Koloa, HI

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I just want to voice an opinion in FAVOR of the TMT. So many of our current technologies today came from science and space exploration. I support having the TMT to create learning opportunities for young people who may find opportunities for careers in science and space. I am NOT Hawaiian or Native American and so I do sympathize with the fear of that group, but I feel for the greater good, the TMT will help, not hinder, the rich history of Hawaiians.
Submittal Number: 273
Date submitted: 10/26/2021
Name: Philip Barnes
Organization: 
City, State, Zip: Hilo, HI 0

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: I am happy to see that the university is updating their 2000 Master Plan for Mauna Kea. Much has obviously transpired in the subsequent 20 years that requires this update. The Thirty Meter Telescope is obviously drawing most of the attention these days but there is a lot more to managing the mountain than telescope approval and construction. In conjunction with the BLNR’s CMP a wise and judicious plan for managing all of the multifaceted aspects of the mountain can best be achieved. It is important to note that the Master Plan is a land use document. All aspects of the actual management of Mauna Kea will be the purview of the BLNR.

It is important to recognize that the summit area of the mountain is truly a world class area for astronomical observations. With the number of clear sky nights, lack of light or other forms of pollution, and ready access to urban areas for site support Mauna Kea may very well be the best site on the planet for these scientific pursuits. The university is well positioned to facilitate this research with the site support located at the University of Hawaii at Hilo.

The repurposing of the midlevel Halepohaku area could play a major role in allowing a more comprehensive management system for preserving the mountain for both scientific and cultural practices. The addition of the universities teaching telescope at this location could greatly expand the potential teaching of astronomy to both students and hopefully the public at large on a limited basis. An expanded visitor center as well as a shuttle system for summit access could go a long way in reducing environmental impacts in the summit region. Hopefully the new visitor center could have a greatly expanded focus on the cultural aspects of the mountain.

At the summit itself the reduction in the number of telescopes will return more of this region to it’s natural state. It should be noted that site 13 where the TMT could be located in actually well below to the true summit of the mountain. Facilities such as rest rooms could be of a more permanent nature to reduce possible environmental impacts. A hardened trail system created in conjunction with cultural practitioners could also serve to keep visitors off of more sensitive areas. The gathering of baseline data on the physical features of the summit environment would also be beneficial to future management plans.

My overlying concern with all efforts to manage and plan for the future of the mountain is the acceptance by the public for any decisions that are made. The extensive decade long process for the siting of the TMT provides a model for this concern. Hawaii is a part of the United States and functions by the rule of law. I am glad to see the extensive outreach to the public for their comments on this Master Plan. If approved the test will come in it’s implementation.
Submittal Number: 274  
Date submitted: 10/26/2021  
Name: Sigouin Wendie Wendie  
Organization:  
City, State, Zip: Honolulu, HI 0  
Comments on Missions, Vision, and Values: I support the University of Hawaii stewardship of Maunakea  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: I support the University of Hawaii's stewardship of Mauna Kea and their Astronomy programs. We are so fortunate to have the logistics to support this scientific program which is vital to the modern world and that our own University is contributes to scientific discoveries!  
I am 12 percent Hawaiian and I support Astronomy atop Mauna Kea.
Submittal Number: 275  
Date submitted: 10/26/2021  
Name: Kainalu Iaea  
Organization: University of Hawai‘i at Hilo  
City, State, Zip:  

Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  

General/Other comments:  Aloha e,  
As a haumāna of the University of Hawai‘i at Hilo, I decided it was important to share my mana‘o on the new master plan for Mauna Kea. This plan will ultimately secure educational opportunities to my generation as a young kānaka in college, and future generations to come, many of them that will possibly attend a UH institution. I fully support the efforts of attempting to create opportunities for those interested in astronomy, like myself. However, this is not the first proposal provided from the University regarding stewardship responsibilities on Mauna Kea, and from the first telescope their has been resistance to any projects being developed. If the University hasn’t listened in the past, how can I as a student support my school that does not listen to public feedback? Was it necessary for hundreds of people to camp on the base of Mauna Kea to state that this mountain is sacred, that it is important? That does not sound ethical or humane for hundreds of people to camp in cold weather, just to say its sacred, to leave it alone. 13 telescopes later, dozens of arrests throughout the years, and were still trying to negotiate terms of new development? How does any of this sound like progress? I do not support this master plan because the building of this telescope desecrates sacred, native, and wao akua lands. These pristine slopes were designated as wao akua (region of where our akua dwell) long before the University decided to start development. This project and master plan further oppresses Native Hawaiian religion, culture, and well being. The University says this will benefit its students, well listen to us, to me, this master plan benefits nothing but the continuation of oppression towards Native Hawaiians.  
Mahalo,  
Kainalu UHH ‘23
Submittal Number: 276
Date submitted: 10/26/2021
Name: blaise blaise
Organization:
City, State, Zip: Boise, ID 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR: Do not build the telescope. Don’t forsake the land.
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Comments on Missions, Vision, and Values: This section seeks to use and define many words in Hawaiian. I will do the same. My favorite Hawaiian word is iki'iki. Iki'iki as in, humidity. Iki'iki almost an onomatopoeia. "Icky icky." For indeed, humidity can be a joy but it can also be rather icky. And the Hawaiian language can be rather beautiful but it can also be obscuring. It is icky how much this mission statement talks about listening and uses Hawaiian to try to buy itself some authenticity. While I do believe it to be sincere, every mention of "listening" is sits icky when it sits alone. Because each one does sit alone, without mention of action or accountability to the voices being listened to. They still sit still like air heavy with water vapor. This Mission statement needs to back up its stated values with more concrete commitments to cede financial and political resources to the communities it is listening to. It needs to demonstrate that the University is prepared to sharing power, not just able to use a Hawaiian dictionary.

Indeed, I think I might be coming off as too harsh. This Mission statement is several strides in the right direction, just like land acknowledgements. It is admirable to be taking time to carefully craft a heartfelt document such as this one. But, just like land acknowledgements, nothing can end with simple recognition and words.

"Land Acknowledgement" by Hope Fa-Kaji

It’s believed that “hurricane” is derived from the Arawak word hurakan, meaning “god of the storm.”

— New York Times Nonfiction: “A History of Hurricanes in America and the Devastation They Have Wrought” by Elizabeth Kolbert

And we thought it sufficient to remember in words

Except, perhaps, in those moments when there is enough sky to make the rain look stagnant:

A cotton ball caught on the landscape:

Stretched in strands, gray to the ground

Except, perhaps, when a rain drop sinks into every available space:

When it is width and depth and they just keep coming:

And the fire ants roll down what used to be pavement

We thought we could surf down dunes in plastic

Rafts, colored to kindergarten sensibility and expect the gypsum not to stick to the backs of our ankles

We switched lanes to pass by the Minnie Winnie

The Miniature Winnebago

The Miniature “people who live by the fetid water”

We settled in between the advancing thunder heads to drive

Around, kick up white sands and

I’m sure someone

Has walked to the top of a dune, jumped and held both knees in both arms

Wanting to splash the grains

All the while yelling

Geronimo

“the one who yawns”

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
I am writing on behalf of the Nālimakui Native Hawaiian Council at the University of Hawai‘i - West O‘ahu. We appreciate the opportunity to provide comment on the Draft Master Plan for the University of Hawai‘i Maunakea Lands. We would also like to acknowledge and mahalo all the effort that went into creating this document.

We also commend the University of Hawai‘i at its attempt at being a responsible steward of the lands at Maunakea, however, we have four (4) main concerns regarding the plan:

1. Potentially turning Halepōhaku into a tourism destination

   The draft plan states that UH intends to repurpose and reassign Halepōhaku facilities to support education and research that are not astronomy related, and in the very same section, says that it expects an increase in out-of-state visitors thus needing facilities to be updated to accommodate such. The commitments and repurposing plan laid out by the University do not directly address the issues stated in the previous paragraphs.

2. Little mention of Site 13: TMT

   TMT has been an issue of contention within our community for years and the lack of clarity, or even mention, of Site 13: TMT in the management plan is concerning. If TMT is to be the last telescope on Maunakea with scheduled construction slated to commence in the next few years, it is assumed that TMT would be highlighted more in this master plan.

3. Nebulous language that lacks meaningful substance

   The overall language of the draft master plan feels hollow with very few actionable intentions that preserve the physical landscape or the cultural significance of Maunakea to Native Hawaiians.

4. Sustainability

   It is alarming that all existing telescopes have little to no chance of being recycled, which appears to be in direct conflict with TMT proponents declaring astronomy as a “green” industry.

No ka pono o ko Hawai‘i pae ‘āina, no ka pono o ka lāhui Hawai‘i.
Na mākou me ke aloha,
Nālimakui Native Hawaiian Council
University of Hawai‘i - West O‘ahu
Submittal Number:  279
Date submitted: 10/26/2021
Name: janet Matlock
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: In the short term, astronomy provides a diversity of clean, sustainable jobs and STEM education for those living on Hawai'i Island. In the long term, astronomy adds to our global collective knowledge as we humans continue to reach for the stars, as ALL of our ancestors have done before us. Imua TMT!
Submittal Number: 280
Date submitted: 10/26/2021
Name: Brian Lemaux
Organization: Gemini-North
City, State, Zip: Hilo, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: The draft master plan for the UH stewardship of Maunakea lands, as written, documents an extremely thorough and balanced vision for the future of Maunakea stewardship. If adopted and implemented effectively, this plan should improve on every aspect that the mauna offers, from cultural interpretation, environmental sustainability, astronomical research, cross-disciplinary research, conservation, and educational opportunity. Those who crafted this plan clearly solicited a broad swath of input and listened carefully to all the voices that spoke to their experience with and their vision for Maunakea. Speaking from the perspective of an astronomer of 20 years, the current plan, as written, will not only maintain the highly productive facilities on the mauna, but allows for a carefully controlled modest re-fitting of those structures on existing sites, those which are not to be decommissioned, in order to make them more impactful while still maintaining a limited presence on the mauna. It also allows for the development of another world class research facility on the currently existing site 13, whether that be TMT or another telescope, a crucial step towards answering the questions of 21st century astronomical research for which currently facilities are insufficient. These questions are at the very core of our search for our origins as a species, the origins of our planet, of our galaxy, and of our universe; a fundamentally human endeavor. This plan is crafted with love for the mauna, what it brings to all people, and looks to improve on the experience of respectfully communing with the mauna for all who chose to, irrespective of their profession, background, race, or beliefs. I believe this plan should be adopted.
Comments on Missions, Vision, and Values: p. VII. Please stop making my people and culture sound "prehistoric" - that is racially charged. The reference to "early Hawaiians" is a poor choice of words and exposes what you think of Native Hawaiian culture and religion as something relegated to the past. Native Hawaiians are living people. We still exist and clearly still see Mauna Kea as our origin place. Indigenous science and knowledge is valid and is telling us to take care of the earth. Mauna Kea is our sacred place of origin - we do not need your colonial science desecrating that land through mountaintop removal, in a conservation area that is home to endemic species found nowhere else on earth, to figure it out for us.

p. IX. Over development is pervasive throughout Hawai‘i - the development of our sacred sites and destruction of our cultural resources has had a huge impact on the health and well-being of the Hawaiian people. Currently, Native Hawaiians make up over half the homeless population and 10 percent of the population. Do you think that further desecration of our most sacred 'Aina against our wishes will address this disparity and lack of opportunity in Hawai‘i? Do you think Kanaka Maoli want to be employed by an industry that doesn't recognize our rights, knowledge, religion and cultural practice as valid? Mauna Kea is sacred and should be left alone. https://www.honolulu.gov/rep/site/ohou/PICT2020PTCountReportFinal.pdf

p. IX. Yes, there should be a more diversified economy. Tourism, military, the agrochemical industry, real estate, and astronomy/telescopes have all been part of the lack of diversified economy that has not changed and only gotten worse over the last 50 years! Why would more telescopes bring more diversity to our economy? Do you think more tourism and military will also diversify the economy?

p. IX. This betrays the majority opinion of the Hawaiian people that have been screaming, "no more! Enough is enough!" 20,000 people marched in a single day to demonstrate our opposition to TMT on Mauna Kea. How many marched in support of further desecration? Stop using our home and our most sacred land for your science experiments. From experimental pesticides and herbicide resistant seeds to bombing Kaho‘olawe for target practice to building these monstrosities on Mauna Kea - aole. Enough is enough. The few in power is deciding what the future of Mauna Kea should look like and ignoring the majority opinion. Don't hide behind "diversity."

Comments on Goal and Objectives: page 1. If you are trying to listen to our voices, and clearly also attempting to appropriate 'olelo Hawai‘i judging by the title of this draft, why can't you hear the voice of the Native Hawaiian people who have been shouting at you, "NO MEANS NO!"? No,

Comments on Strategies: p. 7. You have had over 50 years of an opportunity to build trust and listen to the community. You have categorically failed to be a good steward of Mauna Kea. You have failed and do not deserve another opportunity. There is zero trust felt by Kanaka Maoli

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR: The Native Hawaiian people are the rightful stewards of Mauna Kea.

Comments on education, research, and astronomy facilities in the MKSR: 4-3. TMT is located on the pristine northern plateau. It is NOT okay to continue with plans to build this telescope. How many times have we said no? You must take into account the cultural and environmental impacts of this construction and your public tru

Comments on access management facilities: X

Comments on proposal review process: 1. It needs to be approved by the Hawaiian people. If the "State reaffirms and shall protect all rights, customarily and traditionally exercised for subsistence, cultural and religious purposes and possessed by ahupua’a tenants who are descendants of nativ

Comments on design guidelines:

General/Other comments: These comments were attached to the document. I can't see a way to submit those comments so I copied them here as well. I don't have energy to trace every comment back to provide context and hope that readers will be able to review them in the document itself. I am adding them here as well because I do not trust they will be read. Please send me verification that my comments are considered.
Submittal Number: 282
Date submitted: 10/26/2021
Name: Bob Douglas
Organization:
City, State, Zip: Hilo, HI 0

Comments on Missions, Vision, and Values: For the purposes of these comments Native Hawaiian is defined as Kānaka Maoli, NOT a resident of the state of Hawaii.

Including comment on THE UNIVERSITY OF HAWAIʻI COMMITMENT TO COLLABORATIVE MAUNAKEASTEWARDSHIP and the E Ō I KA LEO (LISTEN TO THE VOICE) FOREWORD

Pg 2. “A concerted, but ultimately unsuccessful, effort was made to discuss the restructuring alternatives with Hawaiʻi Island kiaʻi.”
This is a highly charged accusatory and ambiguous statement. Where is the supporting evidence?

Pg. X Maunakea is linked to the Hawaiian people, their culture, cosmology, and for some the mauna is sacred. Change “for some the mauna is sacred” to “for most the mauna is sacred”.

“For early Hawaiians, Maunakea was the origin – the first-born island. For modern astronomy, Maunakea provides a window on the origins of the Universe. Integrating these diverse and rich perspectives is both the purpose and challenge with this plan and thus its name, E Ō I Ka Leo (Listen to the Voice), for it is in listening deeply to the many values attached to Maunakea that the knowledge of who we are will be revealed, and our humanity affirmed.”

This paragraph is pushing a false patronizing narrative/connection between cultural beliefs that Mauna Kea is sacred and modern astronomy. It’s disingenuous to push one view point without acknowledging that for most native Hawaiians Mauna Kea is sacred and no more construction should be allowed.

Pg XII “At the same time, other community voices have consistently spoken in support of astronomy on Maunakea as an important element of the island’s future economic and educational base. This has motivated many in the community to pursue a vision for Hawaiʻi of a more diversified economy that includes greater support for research, education, and technology and less dependence on tourism.

UH believes that whether one supports or opposes astronomy on Maunakea in general and/or TMT in particular, and regardless of whether one believes that UH is the most appropriate agency to manage the upper reaches of the mountain, if Hawaiʻi is to achieve its goals of building a more diverse and sustainable future for this and future generations, the path forward is through a knowledge-based economy inclusive of disciplines grounded in science and technology guided by the values of the community.”

Again this document is pushing a false narrative. Astronomy provides little benefit to native Hawaiians. There are many far better programs with benefits that out weigh astronomy by orders of magnitude. The value add is negligible and highly selective and narrow in focus. Native Hawaiian and Hawaii residents would be much better served if UH would focus on teaching it’s students skills to acquire and retain telecommuting jobs. Develop telecommute centers. Strategies for telecommute employment are complex and difficult to master without guidance. A successful telecommute program would offer employment of a much wider breadth than astronomy. This narrow mindset is the root of our brain drain.

“Unfortunately, E Ō I Ka Leo cannot resolve past historical injustices and the consequences inflicted upon and experienced by Native Hawaiians because of them.”

Again a false narrative. There are many ways to address the issues. It takes creative and willful action to surmount. UH can properly prepare it’s students for the new employment paradigms.

Pg XIII “Two key insights revealed by that collaboration have informed this plan. First, all groups agreed that it is a privilege to experience Maunakea, whether that be as a cultural practitioner, recreationalist, tourist, astronomer, commercial tour operator, or other.”
Change.
A cultural practitioner has an inherent right to experience Maunakea that shall not be infringed.
Pg 1-1 “Sustainably steward Maunakea for the benefit of our communities, Hawai‘i, and the world, as a publicly-accessible learning landscape where all who visit learn, and those who seek something more discover through rich multi-cultural experiences and engaging multi-disciplinary discourse. Provide equal opportunities across the schools of the UH system and community partners to engage with the mauna in ways that perpetuate and advance knowledge, wisdom, and values while fostering mutual understanding and respect.”

Change to reflect that the primary benefactors are the Native Hawaiians in accordance with the U.S. government 1993 Apology Resolution.

Pg 1-2 “The premier location for astronomy in the Northern Hemisphere due to its unique topographic, weather, and astronomical conditions.”

Strike this statement as it is subjective. There are many other sites in the Northern hemisphere. Including at least two in the US that are far taller and many more outside of the US. Most telescopes are international so being US centric is a bit presumptuous. It’s also untrue if we include space based telescopes.

Pg 1-3 “Kuleana (responsibility or privilege). The UH Maunakea Lands are held in trust by the State for the benefit of Hawai‘i’s people. Access to these lands shall be managed in a manner that balances the public’s right to access with UH’s obligation to: (i) protect and conserve their natural, cultural, and scientific resources; (ii) responsibly manage actions and activities; and (iii) protect public health and safety.”

Change in accordance with the U.S. government 1993 Apology Resolution. “The UH Maunakea Lands are held in trust by the State for the benefit of Hawai‘i’s people.” to “The UH Maunakea Lands are ceded lands held in trust by the State without the consent of or any compensation to the Native Hawaiian people of Hawai‘i or their sovereign government”.

Comments on Goal and Objectives: Pg 1-9 Facilitate the conversion of all wastewater facilities in the MKSR to zero-discharge.

Add clarification and due date. All telescopes are required to update their waste water management systems to an above ground fully contained double walled sys

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on education, research, and astronomy facilities in the MKSR: Pg 4-14 Continued Operation of Existing Facilities. Add a section for Mandatory Requirements for existing observatories.

1. All existing telescopes and buildings should be repainted to a color that blends into the environment. Modern IR reflective paint

Comments on access management facilities: X

Comments on proposal review process: Pg 6-2 “A project proponent can officially submit their proposal by completing and submitting the most recent version of a Project Proposal Form, which will be available online after this Master Plan is finalized. UH and entities that have existing faci

Comments on design guidelines: Pg 7-1 “All native material that is removed during the course of construction should either be used in an aesthetically acceptable way on-site, used for restoration projects elsewhere in the UH Maunakea Lands, or stored at the Batch Plant Staging Area or other location identified during the project review and approval process, if applicable. If it is stored off-site, provisions should be made for returning it to the site when the facility is decommissioned.”

Change

“All native material that is removed during the course of construction should either be used in an aesthetically acceptable way on-site, used for restoration projects elsewhere in the UH Maunakea Lands, or stored at the Batch Plant Staging Area or other location identified during the project review and approval process, if applicable. If it is stored off-site, provisions should be made for returning it to the site when the facility is decommissioned. Storage of materials will be extensively documented by a certified geologist by type and quantity.”

Pg 7-1 “The importing of aggregate materials shall be kept to a minimum and shall not occur unless material already present in the project area is demonstrably insufficient or of unacceptable quality. Any imported aggregate material must be removed to the maximum extent practicable when the facility is decommissioned.”

Change

No importation of loose aggregate allowed.
Any new construction on Maunakea should require minimal grading and floating foundations to minimize any damage to the natural environment.

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Pg 7-3 DOME HEIGHT
Strike this entire section. Add. No increase of any existing dome height or width.

Pg 7-4 HEIGHT OF STRUCTURES OTHER THAN DOMES
Strike this entire section. Add. No increase of any existing building in height or width.

Pg 7-5 “Color of Dome and Dome Support Structure. The rotating dome and shutter should have a reflective aluminum-like coating;”
Change.
All existing telescopes and buildings should be repainted to a color that blends into the environment. Modern high tech IR reflective paints are able to compete with white and silver. Any delta can be dealt with by the HVAC systems. These paints were develop for the military which require low IR reflectance with low optical visibility.

General/Other comments: Appendix A.
Add in all invited parties and document whether they accepted or declined. It’s impossible to discern which ones were not invited.
Why is there more representation from tour groups than from Native Hawaiian organizations such as;
1. Royal Order of Kamehameha
2. Ku Kia‘i Mauna
3. Kahea
4. OHA
5. DHHL
6. CNHA

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Resolution 19-03.
As permitted by law, the University should pursue a partnership with an appropriate agency or organization whose primary beneficiary is the Native Hawaiian community, to operate commercial shuttles and tours on Maunakea.
Amend by adding that the permits for tour operators should be given out with preference to native Hawaiian owned businesses. With a strict investigation into Hawaiian owned. Many know how to circumvent the system by pretending they’re Hawaiian owned via a divided ownership. A non-Hawaiian owns 49% of the company and the rest is distributed amongst Hawaiians but limiting their voting rights and profits within the corporation.

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Resolution 21-02
“In collaboration with the Center for Maunakea Stewardship, the ‘Imiloa Astronomy Center shall develop and implement a suite of educational programs regarding Maunakea including but not limited to Native Hawaiian culture, history, environmental, and biological considerations designed for tour guides and drivers, employees, contractors, recreational users, scientists and observatory workers, and visitors, as required by the Management Plans, by September 30, 2021, with implementation targeted to commence no later than December 31, 2021.”
Change
All tour guides should meet a minimum certification in Hawaiian studies. I propose that UH Hawaiian studies program and not Imiloa determine a track for certifying tour guides. Any certification must include a written test(s) and biennial certification with costs born by the tour operators.
Tour operators should be required to give back to the Hawaiian community in the form of a percentage of profits.

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RECREATIONAL ACTIVITIES IN THE PLANS
Add
Violations of off-road use, destruction of natural habitat, removal of items would incur an automatic ban from the Mauna and all State Parks.
“BE IT FURTHER RESOLVED that the university make it a priority, including through additional financial support, to meaningfully increase the education and engagement of Native Hawaiian students, Hawai‘i Island residents, and residents of the State of Hawai‘i in the areas of astronomy, celestial navigation and exploration; and that such initiatives include an active educational and outreach program that highlights indigenous knowledge as well as enhanced student access to and utilization of Maunakea-based astronomical resources in the field;”

This portion of the resolution commingles the benefits to the Native Hawaiians and Hawaii residents. It should be a well defined priority with dollar amounts to benefit the native Hawaiians and so be reflected in the resolution.
Submittal Number: 283
Date submitted: 10/26/2021
Name: Daniel Alexander
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Hello, my name is Daniel Alexander, I was born and raised on the Big Island, and as a white settler in Hawai‘i, I feel it is my place to be reflective of my presence in the islands, and to follow the leadership of Kanaka Maoli in the struggle to preserve and protect the fragile and sacred resources of Mauna Kea.
There has been a well documented history of mismanagement of those natural and cultural resources by the University of Hawaii. The University has consistently failed to listen to the concerns of the stakeholders with the most to lose, has failed to honor its own commitments regarding environmental caretaking of the mountain, failed to act on numerous environmental impact statements detailing the continued and unmitigated impact the infrastructure of the observatories has had on the fragile ecosystem of the mountain, and has shown that it is unable to be a good steward of Mauna Kea.
I support the end to the planned construction of the Thirty Meter Telescope, and all future development of Mauna Kea.
Submittal Number: 284
Date submitted: 10/26/2021
Name: Sam Miller
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: To whom it may concern,

I do not want to be misconstrued as someone against conducting research relevant to the field of astronomy; to me, personally, space and the stars are just as sacred, and being able to see the stars so clearly in Hawaii is one of the main things that makes me homesick every time I leave.

However, the problems regarding Mauna Kea lands are multi-faceted, and first, I urge you to consider again that the land is sacred. Although an effort is being made to listen to the input of Native Hawaiians (which is appreciated), it is difficult to allow a few individuals to speak for an entire community regarding something so controversial. Additionally, if you wished to acquire informed consent from Kanaka Maoli, you fail to do so when your Master Plan document is 122 pages long (limiting access to those with plenty of discretionary time), when many references are made to how the plan that proceeds will need to agree with the Comprehensive Management Plan (which we do not have access to before the deadline to submit commentary about the Master Plan, thus potentially leaving out important details), and when promises are continually made to support and uplift Indigenous culture, tradition, and knowledge but no plan is laid out for how to do so because “In general, cultural practices and recreational activities do not involve land uses and are therefore not subject to this Master Plan” (page 75). Unfortunately, I do not see how cultural practices are entirely separate from land use plans when the very basis of Hawaiian culture is intrinsically tied to the land. If sites are still undergoing construction that cause the desecration of the Mauna, an action that has been continually opposed by Hawaiians, how can you claim this solidarity with Hawaiians while ignoring their wishes and simultaneously claim that this will ultimately benefit them? As with tourism, the benefit is ultimately monetary, but still at the expense of the Hawaiian people.

Further, whether or not more astronomy sites and telescopes are constructed, I believe that the University of Hawaii will maintain its status as one of the world leaders in astronomy and physics programs based on its location and how much has already been discovered in space while on these islands. This push to be competitive in astronomy is unconvincing compared to the value of the undisturbed sacred land.

Finally, allocating a large budget towards furthering the pursuit of knowledge of space by constructing stations and roadways seems like a less pressing matter than committing that time and effort and those resources to addressing things like the problems of climate change, which will disproportionately affect the State of Hawaii through rising sea levels and natural disasters compared to mainland states. More emphasis should be placed on the importance of creating innovative solutions to surviving in a rapidly changing world that don’t rely on the science fiction fantasy of retreating to space when the Earth is no longer inhabitable.

At the very least, I support the decommission of those sites which are not being utilized and restoring those areas to their former states as best as possible and using Hawaiian names for the places on signage, but I urge you to effectively manage the space that is being actively used in order to prevent the need for future construction efforts. Emphasize caring for the land and its native biodiversity and ensure native plant restoration projects are also prioritized.

Mahalo.
Konveio General Comment Forms

Submittal Number: 285
Date submitted: 10/26/2021
Name: Whitney Bashaw
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: We are living in a time of climate catastrophe, caused largely by our mismanagement of land and resources. And here we are again, deciding against the land, and the people who wish to care for it.
I do not support the building of the TMT on Mauna Kea.
I think that repeat offenders should not be given the benefit of the doubt, especially when there is a longer history of mismanagement and outright mistreatment than that of proven track record of stewardship and clean up.
How can one make the argument that we should be exploring the furthest reaches of our universe if we cannot even protect the land those telescopes are built upon? We must learn first how to treat our immediate environment before any such new construction should be allowed.
That trust has to be gained, not assumed through power and opportunity.
When there has been no evidence of accountability for past harms, why should people believe this time will be different? It is as if the people of Hawai‘i are being asked to forget and forgive without any proof that the sites will now be managed properly. How does anyone know that the same problems will not arise again? And what is the motivation to do so, if there is absolutely no consequence for what has already happened? A lot of money has gone into these works, but not much can be shown by way of land stewardship.
Harm has been done, but we are expected to just believe for the sake of science – and a neatly written master plan – that everything will be handled better now? That, despite UH being behind on their stated goals of decommissioning the current telescopes, it can be trusted to follow through with complete respect for people’s concerns?
Telescopes, need anyone be reminded, that have contaminated Mauna Kea through hazardous leaks and trash pile up?
This is a leap of faith that many are rightfully wary to make.
University of Hawai‘i and the Department of Land and Natural Resources have proven to be poor stewards to the land and natural resources at best, and at worst downright disrespectful and dishonest.
Where there is no trust, there can be no respect. If this project is so important to humanity, prove that humanity is important by treating those on the island as if they are also important. Treat those opposed to harming our land, this special piece of universe that we occupy, as if they are as precious as the universe you wish to explore. As Carl Sagan said, we are made of star stuff.
General/Other comments: I fundamentally DISAGREE with any plans for development at Mauna Kea. The University of Hawaii should not desecrate this sacred site. Any talk of building the TMT is a threat of violence against the Hawaiian people and furthers an agenda that commits cultural genocide on unceded land. The TMT does not belong in Hawaii. Thank you for your time and consideration.
Submittal Number: 287
Date submitted: 10/26/2021
Name: Robert OConner
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: I support this section as written.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I support the plan as written, and look forward to the benefit this project provides to the community.
Submittal Number: 288
Date submitted: 10/26/2021
Name: Shannon Kaaa
Organization:
City, State, Zip: Aiea, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I do not think that ANY MORE observatories should be built before existing decommissioned observatories have been REMOVED. After those and other observatories have been removed, then there can be a discussion about any future observatories, based on the environmental AND CULTURAL impact.
Submittal Number: 289
Date submitted: 10/26/2021
Name: Makanalani Gomes
Organization:
City, State, Zip: Waipahu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I do not consent to the building of the Thirty Meter Telescope (TMT) on Mauna Kea or any other telescope. I would also like all telescopes on Mauna Kea to be decommissioned. I also believe the University of Hawaiʻi should no longer be the steward of Mauna Kea. Mauna Kea is sacred and should be treated and maintained as such.
Mahalo
Submittal Number:  290
Date submitted:  10/26/2021
Name:  Jeffrey C
Organization:  
City, State, Zip:  ,

Comments on Missions, Vision, and Values:  Despite dissent you're still planning on developing TMT; commercializing the area is contradictory to your stated goals of minimizing adverse effects of human activity on the mauna. This is not "protecting, maintaining, and restoring the cultural landscape." Building TMT is not stewardship.

Comments on Goal and Objectives:  Again: Despite dissent you're still planning on developing TMT; commercializing the area is contradictory to your stated goals of minimizing adverse effects of human activity on the mauna. This is not "protecting, maintaining, and restoring the cultural l

Comments on Strategies:  Despite your claims of a better future based on the money you claim TMT will bring, TMT will continually exploit Hawaiian culture for tourism instead of helping Hawaiians build a better and independent economy. There have been so many telescope projects i

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:  X

Comments on proposal review process:  Where is your explicit process for sourcing opinions from the community? Where are you listening to the voices from? The selection process from the members of your teams leads to prejudice and echo chambers. Specifically mentioning the indigenous communit

Comments on design guidelines:

General/Other comments:
Submittal Number: 291
Date submitted: 10/26/2021
Name: Camille Rodrigues
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Decommission and remove the existing telescopes on Mauna Kea. Do not build any more. We do not want this and we are the stewards of this land.
Submittal Number: 292
Date submitted: 10/26/2021
Name: Rachel H
Organization: Uprooted and Rising
City, State, Zip: 

Comments on Missions, Vision, and Values: I strongly doubt the values of this master plan and its claims of taking care of the mountain because the Comprehensive Management Plan has not been enough in protecting the mauna in Natural or Cultural perspective. None of the 13 existing telescopes have been decommissioned when called to. Trash was never taken out, left accumulating on the Mauna. Chemical waste spills were not treated correctly. The values of this document do not align with the people, so if you truly are listening to the people, you should stop this master plan DRAFT.

Comments on Goal and Objectives:

Comments on Strategies: The mauna is not a place for people to go. Mauna Kea is wao akua and cities are wao kanaka. We should not be holding commercial tours or films. Mauna Kea is a temple and should be treated as such. She deserves peace and protection, which this document lac

Comments on Halepōhaku facilities: NO MORE TELESCOPES ON THE MAUNA.
Anything educational can be built somewhere NOT sacred.

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities: X

Comments on proposal review process: Kanaka Maoli are NOT part of this process. Why are the most impacted community NOT part of this process?
No community consultation either, it's like you're not serious about listening to our leo!
Kahu Ku Mauna has not been consulted even though they are

Comments on design guidelines:

General/Other comments: I adamantly oppose this plan and know that UH should stop everything and all the leases. Just listen to the kanaka maoli and elders telling you about protection, love, and care.
Submittal Number: 293
Date submitted: 10/26/2021
Name: Jennifer Merritt
Organization:
City, State, Zip: Tyler, TX 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: We must protect the past and current history of the mauna. This land has always been meant for the ultimate protection. The fact that there are telescopes on the mauna already should be seen as a blessing and act of grace. Those telescopes alone do not belong on the mauna, let alone heavy construction for a new one. It’s disgraceful in my opinion to want something that others have opposed. We need to listen to the Hawaiian people not fight them. No compromise should be made.
Comments on Missions, Vision, and Values: While I understand the desire for what many might view as “scientific progress,” it has never been ok (no matter how many people and institutions have done it) for this “progress” to silence and sideline Indigenous people and acquire access to Indigenous lands and sacred spaces against the will of their traditional rights holders. In 2021, it’s no longer possible to masquerade oneself and one’s project as innocent and ethical when you and your project are perpetuating colonialism: accessing indigenous lands without partnership or permission from rights holders. It is colonialism to take lands and rights away from Hawaiians who have a right to their sacred places, in this case the mauna. On colonized lands like Hawai’i, ethical science requires creating meaningful partnerships with Indigenous people whose traditional homelands host the scientific endeavors and make any economic profits possible. Extractive science is colonialism. Building a telescope on Indigenous lands and sacred spaces against the will of rights holders is colonialism. It is not sustainable or ethical and has no place in Hawai’i or anywhere. Take advantage of telescopes already built. If you want to conduct scientific studies there, build meaningful relationships with the Indigenous people of those lands and give lands, rent and reparations back to them. Do not perpetuate more colonialism in Hawai’i, particularly when Hawaiians and their many allies are saying no. If your science is not ethical and anti-colonial it has no place in Hawai’i. There is no more space for colonial science in Hawai’i’s future.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 295
Date submitted: 10/26/2021
Name: Kaliko High
Organization: Small House Growers
City, State, Zip: , HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities: The first section in this portion states that the areas mentioned are outside the already disturbed portion of this wahi pana. So right off the bat your talking about new paving and new retaining walls, which intentionally redirect precipitation away from natural water ways. We do not consent to this. We need to move away from this mode of thinking. We must focus on restoring, and working with our sacred mountain. That is the only way you can begin to heal the great harm done perpetrated by UH and DLNR.

Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The great harm done not just to the mountain but to the people, was perpetrated by many of the same groups who have put together this plan.
What is right, is obvious. We need new leadership at the helm of stewardship of Mauna Kea. We need transparency and fairness, not the deceit and back-room dealings we’ve seen. We need leadership focused on restoring and maintaining the sacred resources of Mauna Kea for our future generations.
What we do NOT need, is more pavement, retaining walls, and telescopes. If you are truly going to “Heed the Voice,” then hear this yet again: TMT will never be built on Mauna Kea.
Submittal Number:  296
Date submitted:  10/26/2021
Name:  Nick Dreher
Organization:
City, State, Zip:  honolulu, HI  0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  Please allow the TMT.
Submittal Number: 297
Date submitted: 10/26/2021
Name: Margaret Murchie
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Just build it already! Don’t listen to vocal minority. I understand the unhappiness for Hawaiians with past injustices but this project is too important to fail to be built. Important To the world! important to Hawaii! important for the youth whose ancestors followed the stars and science. This would add such great educational opportunities for everyone. It is in an incredible location and we are fortunate that the developers are still considering it. Don’t let this unbelievable opportunity pass us by. UH needs to clean up their acts, keep promises & maintain area or get out of the way. The crazy dissent should never have gotten this far. Time to move forward.
Submittal Number: 298
Date submitted: 10/26/2021
Name: Jessica Perry-Ah Hoy
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I think there should be a permanent halt to the TMT. It's incredibly detrimental to the environment and not fiscally smart. If the state wanted to fulfil its fiduciary duty as the holder of crown lands then they shouldn't have been allowing UH to pay $1 a year for the land.
Konveio General Comment Forms

**Submittal Number:** 299  
**Date submitted:** 10/26/2021  
**Name:** Lorelei Armstrong  
**Organization:**  
**City, State, Zip:** Princeville, Hawaii 0

Comments on Missions, Vision, and Values:  
**Comments on Goal and Objectives:** This plan offers a tremendous opportunity to inspire young people to develop an interest in not only science but the stewardship of the islands. Everyone can and should have an interest in this series of projects. If adults can compromise and cooperate, t

**Comments on Strategies:**

**Comments on Halepōhaku facilities:**

**Comments on management and stewardship facilities in the MKSR:**

**Comments on education, research, and astronomy facilities in the MKSR:** This is such an extraordinary opportunity to expand terrestrial astronomy. Removing decommissioned observatories is a reasonable accommodation to make room for an observatory that will let us look out into the universe in ways we never have before. Hawaii

**Comments on access management facilities:**

**Comments on proposal review process:**

**Comments on design guidelines:**

**General/Other comments:** I wish the construction of the TMT were already underway. The opposition must be listened to, but most of us want the telescope built and the future embraced. Accommodation to cultural practice can be made via this plan. Do that, and build. Anti-maskers can't force us to take off our masks. Anti-vaxxers can't get the vaccines banned. Those who want Mauna Kea left barren should not get to stop the future of science.
Comments on Missions, Vision, and Values:

**Comments on Goal and Objectives:** I do not believe that the University of Hawaiʻi should be managing Mauna Kea because there is too much conflict of interest. The plan will benefit scientist and the University of Hawaiʻi and no one else, therefore there is a conflict of interest.

Mauna K

**Comments on Strategies:** More public input is essential for any plan moving forward. Native Hawaiian leaders should sit on the decision making board.

No new astronomy sites should be built because Mauna Kea should be protected by no more development. Development will negatively

**Comments on Halepōhaku facilities:** No development of Halepōhaku area should occur. This means no additions to the present facility.

**Comments on management and stewardship facilities in the MKSR:** The effort to protect and conserve natural and cultural resources must include no more buildings at all.

**Comments on education, research, and astronomy facilities in the MKSR:** Additional astronomy facilities should not be built. There will be too much impact on the environment.

**Comments on access management facilities:** X

**Comments on proposal review process:**

**Comments on design guidelines:**

**General/Other comments:** The state should not renew the lease for the University of Hawaiʻi for the management of Mauna Kea.
Submittal Number:  301
Date submitted:  10/26/2021
Name:  Lloyd Case
Organization:  
City, State, Zip:  Kamuela, Hawaii  0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: I do not believe that the University of Hawai‘i should be managing Mauna Kea because there is too much conflict of interest. The plan will benefit scientist and the University of Hawai‘i and no one else, therefore there is a conflict of interest.

Mauna K

Comments on Strategies: More public input is essential for any plan moving forward. Native Hawaiian leaders should sit on the decision making board.

No new astronomy sites should be built because Mauna Kea should be protected by no more development. Development will negatively

Comments on Halepōhaku facilities: No development of Halepōhaku area should occur. This means no additions to the present facility.

Comments on management and stewardship facilities in the MKSR: The effort to protect and conserve natural and cultural resources must include no more buildings at all.

Comments on education, research, and astronomy facilities in the MKSR: Additional astronomy facilities should not be built. There will be too much impact on the environment.

Comments on access management facilities: X

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: The state should not renew the lease for the University of Hawai‘i for the management of Mauna Kea.
Submittal Number: 302
Date submitted: 10/26/2021
Name: Greg Engh
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: See my comments under "General / Other (comment box)"
Comments on Goal and Objectives: See my comments under "General / Other (comment box)"
Comments on Strategies: See my comments under "General / Other (comment box)"
Comments on Halepōhaku facilities: See my comments under "General / Other (comment box)"
Comments on management and stewardship facilities in the MKSR: See my comments under "General / Other (comment box)"
Comments on education, research, and astronomy facilities in the MKSR: See my comments under "General / Other (comment box)"
Comments on access management facilities: X
Comments on proposal review process: See my comments under "General / Other (comment box)"
Comments on design guidelines: See my comments under "General / Other (comment box)"
General/Other comments: The Thirty Meter Telescope (TMT) should be built and only telescopes that are not operational should be removed. The TMT has obtained a Conservation District Use Permit (CDUP), sublease, and it was given permission to go forward by the state supreme court. Moreover, the TMT project passed an environmental impact study. None of the conspiratorial nonsense opposing the telescopes is true. When considering what should be done the facts have to be considered, never falsehoods. The TMT is one of the greatest projects ever to be developed and its impact for Hawaii and humanity as a whole will be nothing short of wondrous. I support the construction of the TMT and I oppose the removal of operating telescopes from the summit of Mauna Kea.

In the 2000 Master Plan for the Science Reserve, it is stated that five observatory sites would be “recycled” and not decommissioned. Removing operational telescopes and not constructing the TMT are both unreasonable mistakes and could both be disastrous. These telescopes improve our understanding of the universe and offer jobs and educational opportunities to locals. Removing operating telescopes and not constructing the TMT are irresponsible actions that show a lack of respect for the law, and would be no more than a political stunt to appease a small minority of individuals who have recently chosen to perpetuate myths and blatant lies in order to further other unrelated political agendas. Nothing will be gained by removing any operational telescopes and not building the TMT, yet much would be lost.

Observing time at every telescope is precious and more telescopes equates to more observing opportunities for everyone. With fewer telescopes on the mountain, less time will be available to both the international community and UH faculty (and their students). Neither group will be satisfied if telescopes are removed and observing time decreases. If observing time is lost by international research teams then those researchers will begin to look elsewhere to carry out their observations, which will negatively impact the site’s reputation for world-class research. Likewise, if observing time is lost by UH researchers then the impetus for professional astronomers to work at UH may decrease, which could also impact multiple other departments at UH as well as local students.

The economic impact of removing operational telescopes is also significant. Each telescope employs a staff of scientists, various technicians, engineers, mechanics, etc. With the removal of a single telescope many of these individuals will lose their jobs and Hawaii may then lose highly skilled professionals while further weakening the state’s and island’s economy.

The findings of the Ku-iwalu audit by DLNR claiming that UH did not adequately consult with native Hawaiian representatives is completely unfounded. Everyone had time to correspond with UH representatives during the review periods and no one (or group) should be given special treatment. Representatives of native Hawaiians opposed to the TMT and the other telescopes on the summit chose to exclude themselves from negotiations and consultation in the past. I support the TMT project and I respect the work of all the other telescopes and think that the removal of any of them would be a mistake.

With respect, I do not wish my identity made public because I don’t want death threats from protestors opposed to the telescopes.
Konveio General Comment Forms

Submittal Number: 303
Date submitted: 10/26/2021
Name: May Breimon
Organization:  
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:  For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea. The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and over the last twelve years in particular, have clearly exercised that right by saying NO to the building of the Thirty Meter Telescope (TMT) on what is 100% stolen Hawaiian lands. There have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the TMT. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings and signed petitions opposing the building of the TMT on the summits of Mauna Kea because it simply is not pono. Not only should any plans to build the TMT be terminated, but it should be made a priority to remove the other structures, as promised.

Breimon ‘Ohana
Submittal Number:  304
Date submitted:  10/26/2021
Name:  Jon Breimon
Organization:  
City, State, Zip:  ,
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea. The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and over the last twelve years in particular, have clearly exercised that right by saying NO to the building of the Thirty Meter Telescope (TMT) on what is 100% stolen Hawaiian lands. There have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the TMT. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings and signed petitions opposing the building of the TMT on the summits of Mauna Kea because it simply is not pono. Not only should any plans to build the TMT be terminated, but it should be made a priority to remove the other structures, as promised.
Breimon ‘Ohana
Submittal Number: 305
Date submitted: 10/26/2021
Name: Zenaida Breimon
Organization:
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea. The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and over the last twelve years in particular, have clearly exercised that right by saying NO to the building of the Thirty Meter Telescope (TMT) on what is 100% stolen Hawaiian lands. There have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the TMT. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings and signed petitions opposing the building of the TMT on the summits of Mauna Kea because it simply is not pono. Not only should any plans to build the TMT be terminated, but it should be made a priority to remove the other structures, as promised.
Breimon ‘Ohana
Submittal Number: 306
Date submitted: 10/26/2021
Name: Anna Breimon
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea. The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and over the last twelve years in particular, have clearly exercised that right by saying NO to the building of the Thirty Meter Telescope (TMT) on what is 100% stolen Hawaiian lands. There have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the TMT. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. Over half a million Kanaka Maoli, Hawai‘i Residents, and world citizens have provided testimony at countless hearings and signed petitions opposing the building of the TMT on the summits of Mauna Kea because it simply is not pono. Not only should any plans to build the TMT be terminated, but it should be made a priority to remove the other structures, as promised.
Breimon ‘Ohana
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies: Strategy 10 aims to facilitate development of a new astronomical facility on Astronomy Site 13, where the Thirty Meter Telescope (TMT) was previously permitted. The University of Hawai‘i should recognize the irreversible cultural and environmental harm th
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The foreword to the Master Plan reads, in part, “Unfortunately, E Ō I Ka Leo cannot resolve past historical injustices and the consequences inflicted upon and experienced by Native Hawaiians because of them.” The language that the University of Hawai‘i uses here, and the stance that it reflects, should be seriously reconsidered. It implies that the efforts of kia‘i to protect Maunakea are simply a reaction to past historical injustices, and nothing more. This robs these efforts of urgency and importance in their own right. By implying that the struggle to protect Maunakea is not important in itself, but rather a reaction to past historical injustices, the University of Hawai‘i can claim to be supportive of Kānaka Maoli worldviews while simultaneously funding TMT construction.

I agree that the adverse cultural effects of colonization, along with the continued occupation of Hawai‘i, have inflicted immense historical injustices upon Kānaka Maoli. However, colonization is an ongoing process, not an event. The injustices we face, thus, are not only historical. Perhaps the University of Hawai‘i feels that it cannot resolve past historical injustices. Even if this is true, UH can—and must—divest from projects that would allow for the continuation of injustice in the present day. TMT is one such project.

Development of the TMT on Maunakea, the piko (sacred umbilical cord) of our universe, would deny Kānaka Maoli the right to engage in our religious and cultural practices. Development of the TMT on national (ceded) land of the occupied Hawaiian Kingdom would deny Kānaka Maoli the right to our inherent and internationally recognized sovereignty. And development of the TMT on land that is zoned as conservation (under settler state land-use laws) would deny the Earth and all of us who depend upon it the right to survival—especially threatened species that are only found atop Maunakea. For these reasons, the development of TMT is a contemporary injustice. Science that denies Indigenous peoples’ right to exist is not science; it is development and continued colonization.
Comments on Missions, Vision, and Values: In section 1.2, respect for the Hawaiian culture, land, and Hawaiian practitioners is mentioned. The mission and values mentioned don't line up with UH's track record of taking care of Mauna Kea. We need more than words to be convinced that UH has the truest intentions of taking care of the natural and cultural environment over profit. In order to respect the "realm of the gods" as referenced in this plan, the land of Mauna Kea wouldn't be treated as the base of multiple invasive construction projects. It would be treated as a temple, treated as something sacred because that's what it is. It is a place, environment, and ecosystem that should be naturally preserved through Hawaiian culture.

Comments on Goal and Objectives: In this section it states that a goal is to protect Mauna Kea as a wahi pana and wao akua. You can't acknowledge a place is home to the gods while also being willing to destroy it through construction in the name of astronomy. This says you will respect our

Comments on Strategies: This plan still includes plans to develop TMT despite 10+ years of efforts to prevent TMT from being built on Mauna Kea. Pushback against the TMT has been seen and heard throughout the Hawaiian community as well as support from around the world.

Comments on Halepōhaku facilities: As talked about in section 3.1.2, the area of Halepōhaku is part of the critically endangered palila habitat. As said in this section, any construction or additional structures added in this area could be extremely harmful to the palila habitat. Especially since Hawai‘i has some of the most extinct native animals and plants, it is even more important to protect and preserve our native birds like palila, as well as their native habitats. It's interesting that in the same area that talks about Halepōhaku being a critical habitat for palila, there are still plans for multiple projects. How can you say you want to preserve the natural habitat of Mauna Kea while still trying to make plans to construct in that same area. On top of wanting to make that area bigger, there is a small telescope that they want to build even though there is already a small example telescope at the visitors center that is used. The hypocrisy of this plan stating environmental importances of this area while in the same breath saying that they want to build and expand their area of man made things in this critical part of our Hawaiian ecosystem.

General/Other comments: 45 days is not enough time for anyone, let alone the general public, to look over this plan in detail and comment. For a plan that is titled "listen to the voice" this plan and comment process is not user friendly and gives those commenting a big disadvantage with the time limit as well as the comment format and the exclusion of the option to email in comments.
Submittal Number: 309
Date submitted: 10/26/2021
Name: Lorraine Waianuhea
Organization: University of Hawaii at Mānoa
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The University of Hawai‘i (UH) has not been a good steward of Maunakea and does not deserve to have its lease renewed. It is unacceptable that this draft of the Master plan includes the construction of new telescopes (including the Thirty Meter Telescope) and other infrastructure on the mauna. Mass demonstrations by native Hawaiians and allies to protect Maunakea have made it exceedingly clear that the University of Hawai‘i does not have (and has never had) the consent of the native Hawaiian people to build anything on the sacred peaks of Maunakea. Discussions with Hawai‘i island kia‘i (referenced in one sentence in Part I at the top of page 2) were unsuccessful because UH cannot take “no” for an answer, and the institution as a whole does not respect Hawaiian people and culture. The article, “A Native Hawaiian-led summary of the current impact of constructing the Thirty Meter Telescope on Maunakea.” (Kahanamoku et al., 2020) has many recommendations for ways UH could make changes to rebuild trust and create meaningful reciprocity with the native Hawaiian community and other indigenous peoples. This draft of the Master Plan does not address any of those recommendations which is more evidence that UH has not made genuine progress in listening to the voices of the native Hawaiian community.
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives: I strongly support astronomy on Mauna Kea. As a native Hawaiian researcher from Keaau, I believe that we need more sustainable industries like astronomy in Hawaii to help diversify our economy.

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: I support TMT and Astronomy in general on Mauna Kea.
Submittal Number: 311
Date submitted: 10/26/2021
Name: Felicidy Phimmajone
Organization:
City, State, Zip: 

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: The UH Master plan for Mauna Kea is a cultural theft. There is no benefit to Kanaka Maoli as a collective population, not just the one's that the UH system wanted to cherry pick or tokenize to validate their poor morality for this project. Please no more further construction or desecration on Mauna Kea, give the Hawaiian people that. The master plan contributes toward the genocide of Native Hawaiians pilina to ‘āina. The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian Lands. In the United Nations Declaration on the rights to self determination for Indigenous Peoples, Article 7 states that “Indigenous peoples have the collective and individual right not to be subjected to ethnocide and cultural genocide, including prevention of and redress for any form of assimilation or integration by other cultures or ways of life imposed on them by legislative, administrative or other measures. Including any form of propaganda directed against them.” This form of propaganda is the UH master plan's proposal. It perpetuates the desecration to both native Hawaiian people and their pilina to ancestral land genealogy because cultural sites have a birth place on Mauna Kea. If TMT continues its efforts under the propaganda of science for capital greed it too also continues toward the genocide of Native Hawaiians.
The UH Master plan for Mauna Kea is a cultural theft. There is no benefit to Kanaka Maoli as a collective population, not just the one’s that the UH system wanted to cherry pick or tokenize to validate their poor morality for this project. Please no more further construction or desecration on Mauna Kea, give the Hawaiian people that. The master plan contributes toward the genocide of Native Hawaiians pilina to ʻāina. The indigenous people of Hawaiʻi have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian Lands. In the United Nations Declaration on the rights to self determination for Indigenous Peoples, Article 7 states that “Indigenous peoples have the collective and individual right not to be subjected to ethnocide and cultural genocide, including prevention of and redress for any form of assimilation or integration by other cultures or ways of life imposed on them by legislative, administrative or other measures. Including any form of propaganda directed against them.” This form of propaganda is the UH master plan’s proposal. It perpetuates the desecration to both native Hawaiian people and their pilina to ancestral land genealogy because cultural sites have a birth place on Mauna Kea. If TMT continues its efforts under the propaganda of science for capital greed it too also continues toward the genocide of Native Hawaiians.
Submittal Number: 313
Date submitted: 10/26/2021
Name: Jordan Osborne
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Mauna Kea is ancestrally, culturally and spiritually sacred to Kanaka Maoli, and continuing with this project despite their objections is wildly disrespectful. Scientific "progress" should never be made at such a price; it's shameful. What's more, the desecration of a sacred mountain to daydream about the stars is wrong. Why not spend the time and energy that's been spent justifying TMT on trying to mitigate the climate crisis?
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: We should prioritize what we have on earth over what we might find in space. I oppose building the TMT. Sacred natural spaces all over the globe have been lost because colonists have prioritized their interests over the lives and culture of indigenous inhabitants. Mauna Kea is more valuable undisturbed than the TMT could ever be. Thank you for considering my comment.
Submittal Number: 315
Date submitted: 10/26/2021
Name: Marcy Ulep
Organization:
City, State, Zip: Makawao, Hawaii 0
Comments on Missions, Vision, and Values: No TMT!
Comments on Goal and Objectives: No TMT
Comments on Strategies: No TMT
Comments on Halepōhaku facilities: No TMT
Comments on management and stewardship facilities in the MKSR: No TMT
Comments on education, research, and astronomy facilities in the MKSR: No TMT
Comments on access management facilities: X
Comments on proposal review process: No TMT
Comments on design guidelines: No TMT
General/Other comments: No TMT
Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: Caught between the abusive mismanagement of the past and having a hopeful change of the future. Build trust with the Native Hawaiian. The emotional and mental damage that University of Hawai'i and DNLR has done, still hurts. NO TMT!!! All Hawaiians should have access to Mauna Kea at all times, especially native practitioners. No more telescopes to be built. Current telescopes is an eyesore, like a manmade cyst on an infant's pure skin. Use and care of the telescopes that are currently working. Malama them first. Keep your words of decommissioning. Educate visitors, the truth of care and overthrow, and have them pay a fee. All funds should support non profits, Hawaiian charters schools, Hawaiian communities, assist in kick starting grassroots organizations. I havent had much time into reading/keeping up with the latest. I'll look into this a bit more when time allows. Mahalo for your time.
Submittal Number: 317
Date submitted: 10/26/2021
Name: Tressie Ostermiller
Organization:
City, State, Zip: Kailua, HI 0

Comments on Missions, Vision, and Values: I do not consent to the building of TMT on Mauna Kea.

Comments on Goal and Objectives: I do not consent to the building of TMT.

Comments on Strategies: I do not consent to the building of TMT.

Comments on Halepōhaku facilities: I believe you should take care of what is already there.

Comments on management and stewardship facilities in the MKSR: I believe you should take care of what is already there.

Comments on education, research, and astronomy facilities in the MKSR: I believe you should use what is already there to educate students. Much can be learned from the past mistakes of management as well.

Comments on access management facilities: X

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 318  
Date submitted: 10/26/2021  
Name: Gemma Ley  
Organization:  
City, State, Zip: ,  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments: As a long-standing member of the Big Island community, I would like to share that I support the UH Mauna Kea Master Plan. I believe that over the past few years we have all learned the value of community input and responsible stewardship of Mauna Kea. I also support the TMT project. It is my belief and opinion that UH, Keck and CFH have learned some valuable lessons and have adopted sound practice for decommission of some existing observatories per the original agreement, future construction practices with respect for the public and for Mauna Kea. I also believe that support for advancement of science in our community here on the Big Island as well as our world community is of the highest and best benefit overall & here on our island for educational opportunities for our children and our economy. I hope that the public will still have free access to visit, to hike and enjoy Mauna Kea for the next 20 years.  
Mahalo for the opportunity to comment.
The National Science Foundation (NSF) appreciates the opportunity to provide comments on the draft Master Plan prepared by the University of Hawai‘i (UH). As the owner of two major astronomical facilities on Maunakea (the Gemini North Observatory and the Maunakea Very Long Baseline Array (VLBA) antenna), both of which are operated on our behalf by non-profit science management organizations and are the subject of sub-leases with the University of Hawai‘i, NSF has a strong interest in the effective management of the Science Reserve on the Maunakea summit. Within that context, NSF recognizes the importance of protecting Maunakea’s environmental resources, respecting Native Hawaiian culture and the interests of the Native Hawaiian community, and preserving NSF’s astronomy assets on behalf of the US scientific community and our funding partners. Therefore, NSF offers the following comments on UH’s draft Master Plan:

1. NSF recognizes the need for the Native Hawaiian community to have a voice in the management of Maunakea. While there are a few references to UH’s plans to involve the Native Hawaiian community in future activities, the document does not specify what that involvement entails. Moreover, the crux of the document focuses on how UH’s mission will be carried out without discussion of how positive or negative impacts to the Native Hawaiian community will be addressed. NSF believes the document would benefit from a meaningful discussion within the final Master Plan of what these impacts are and how future governance will meet the needs and interests of the Native Hawaiian community.

2. The draft Master Plan includes several very specific guidelines that appear to be requirements (such as dome height and color restrictions, limitations on the number of telescopes within the Astronomy Precinct, locations for the siting of telescopes, etc.) without an accompanying discussion of environmental or cultural resource impacts substantiating those requirements. It is, therefore, very difficult for NSF to evaluate or determine the appropriateness of these requirements.

3. NSF notes that there does not seem to be a specific reference in the draft Master Plan to the 10% observing time that observatories on Maunakea provide to UH as a condition of their subleases. This observing time translates to millions of dollars in direct benefits to UH, and this contribution should be acknowledged, discussed, and evaluated to determine whether it should be redirected (in part or in whole) to provide a more equitable distribution of the benefits to the community, especially to Native Hawaiians.

4. NSF strongly opposes all references to the decommissioning of the VLBA antenna on Maunakea in the draft Master Plan (see, e.g., page 4-5, and 4-14: “It is known that VLBA, on Astronomy Site 14, will be decommissioned prior to the end of 2033.”). On numerous occasions, NSF has communicated to UH, both formally and informally, its position that the VLBA antenna on Maunakea should not be decommissioned because it is a valuable astronomy asset for the nation, and, by virtue of its use in maintaining the Celestial Reference Frame and measuring Earth Orientation Parameters as a contributing system for the International VLBI Service for Geodesy and Astrometry, it plays a vital role in maintaining the integrity of Global Navigation Satellite Systems, including the Global Positioning System. Additionally, this VLBA station is afforded special regulatory protections for portions of the radio spectrum at its present location (i.e., footnotes 113, 131, 161 of the United States Table of Frequency Allocations; 47 C.F.R. § 2.106).

5. The process for decommissioning of facilities set forth in Appendix D to UH’s draft Master Plan lacks sufficient detail to provide meaningful review and comment. NSF does maintain that any decommissioning process should be determined after considering input from the science community and led by the Master Lessee. NSF also notes that the Master Lessee should be cognizant of any potential conflicts of interest it may have when making determinations about which facilities to decommission.
Konveio General Comment Forms

Thank you, again, for the opportunity to provide comments on the draft Master Plan. We look forward to seeing how NSF’s comments are incorporated into the final Master Plan. If further clarity on our comments is needed, please feel free to reach out to David Boboltz, Ph.D. at dboboltz@nsf.gov.

Sincerely,
Linnea Avallone, Ph.D.
Chief Officer for Research Facilities
Office of the Director
Sean L. Jones, Ph.D.
Assistant Director
Mathematical & Physical Sciences
Submittal Number:  320
Date submitted:  10/26/2021
Name:  Amy Nishimura
Organization:  UHWO
City, State, Zip:  ,
Comments on Missions, Vision, and Values:  The values do not align with the mission of UH.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:  Please define repurposing of facilities that will not have a negative impact on the surrounding area.
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:  There should be several town halls on every campus because this impacts everyone. Reading a long document without conversation and dialogue is not inclusive.
Comments on design guidelines:
General/Other comments:
Two hundred submitted testimony at state Board of Land and Natural Resources “emergency rule” meeting in Honolulu on July 10 to testify in a small hearing room, with those waiting outside watching TV, which was muffled and difficult to hear. It was intimidating, disheartening, as not all testified because of return flights. BLNR should have held the hearing on Hawaii Island being that the issues significantly affect our island, and the travel costs, which ranged from $300 to $500, were prohibitive for some.

ADVERTISING

Two hundred submitted testimony at state Board of Land and Natural Resources “emergency rule” meeting in Honolulu on July 10 to testify in a small hearing room, with those waiting outside watching TV, which was muffled and difficult to hear. It was intimidating, disheartening, as not all testified because of return flights. BLNR should have held the hearing on Hawaii Island being that the issues significantly affect our island, and the travel costs, which ranged from $300 to $500, were prohibitive for some.

Testimonies overwhelmingly opposed the emergency rules, which ended at 9:45 p.m. BLNR returned at 10:30 with a 5 to 2 decision in favor of “emergency rules.” Woodside and Gomes, opposed. Woodside, emotionally expressed other “tools” should have been in place to handle Mauna Kea suggesting an alternate process more “in tune” to the protectors’ concerns. I agree.

ADVERTISING

As a former appeals/legislative attorney, and an individual who has consistently fought for civil rights of all people, I have a good understanding of administrative/judicial procedure. BLNR’s procedure is flawed, unfair, unjust and skewed and "stacked" against the protectors. In my view, the hearing was a “dog and pony” show to appease the protectors that they were having a fair hearing.

Is there an equitable process? Doubtful. Why? In 1959, Hawaii becomes a state. At that time, more than a million acres of prime ali'i lands are “transferred” to the state as “public” lands with a provision that 20 percent of the income of these lands go to the Hawaiians. Included in this transfer are Mauna Kea lands.

Eight years after statehood, in 1965 under Gov. John Burns, Act 209, is passed to create Research Corporation of University of Hawaii (RCUH) — as a “nonprofit” conduit, state agency — exempt from financial scrutiny under the law.

Today, 50 years later, RCUH, with a staff of 3,000 earning $113.5 million, was audited in June 2015, and continues to exist as a dysfunctional institution — no long-term strategic plan, board members ill equipped to perform policymaking and oversight, misleading financial statements) — managing millions of dollars.

The Hawaii Department of Land and Natural Resources leased Mauna Kea lands to RCUH for $1 per year, which ends in 2033. RCUH then subleases to the Thirty Meter Telescope. Is it possible that a dysfunctional, deteriorating, broken state agency continues to handle multimillion or multibillion dollar projects like TMT without financial scrutiny? In my view, the Research Corporation of the University of Hawaii is a political conduit for state and federal dollars.

The political interplay for that almighty dollar between former congressional members and governors is evident in the current case of Kilakila o Haleakala vs. University of Hawaii, concerning the ATST telescope on Haleakala. During a March 29,
2012, contested case hearing, BLNR allegedly fired a state hearings officer for allegedly failing to succumb to political pressure from Sen. Daniel Inouye and Gov. Neil Abercrombie’s office with regard to his ATST findings and conclusion.

Gov. David Ige manages the Attorney General’s office, RCUH, DLNR, BLNR and National Guard and has a duty to all of Hawaii’s residents. Undoubtedly, he is pressured by TMT stakeholders to devise “emergency rules” so that “progress” is not impeded on Mauna Kea.

A significant number of the protector Native Hawaiians truly believe, like myself, that Mauna Kea is a sacred place and deserves protection. This ongoing 15-year struggle has been largely ignored by the state.

Is there a remedy? Under the present system, the First and 14th Amendment remedies — tedious, lengthy, cumbersome. Since the Public Access Shoreline Hawaii decision, there has been an continuous erosion of Native Hawaiian rights. Mauna Kea, a symbol of where sacred and cultural purposes fit in the state government’s priorities — at the bottom — “managed” and “mitigated,” especially after decisions have already been made about the so-called highest and best use of lands for profit and prestige.

In November, Nai Aupuni is charged with handling our elections for a Hawaiian Nation. Only then, will we be able to establish our own policies, procedures, government and a process that we can connect with culturally — a process that recognizes our love for the land, our beloved kupuna and one that empowers us to provide for future generations. This is our remedy.
Submittal Number: 322
Date submitted: 10/26/2021
Name: Jennifer Kauʻi Young
Organization:
City, State, Zip: Kealakekua, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I oppose the construction of TMT due to the ongoing resource mismanagement issues and illegal use of lands designated for beneficiaries of the 1921 Hawaiian Homes Commission Act. Of course, there is the larger political issue of America’s illegal occupation of Hawaiʻi. Any land management decisions made by the entity known as the state of Hawaiʻi are illegal according to International Humanitarian Law, and has been formally recognized as such by the U.N. I oppose the building of the thirty-meter telescope and any illegal structures on stolen land, now and forever.
Comments on management and stewardship facilities in the MKSR: The new UH Mauna Kea Master Plan, though thoughtful in some areas including improvements for community use to already existing structures and areas, still proposes the building of the Thirty Meter Telescope (TMT). Today this remains an undesirable, offensive
Submittal Number: 324
Date submitted: 10/26/2021
Name: daylan DeMello
Organization:
City, State, Zip: Honolulu, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: "The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian Lands. " Stop the desecration of Hawaiian lands! I've just begun to understand my genealogy and how proud we Hawaiians are as people. We've been taken advantage for over 127 years and enough is enough!
Submittal Number: 325
Date submitted: 10/26/2021
Name: Emily Holmberg
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: As a resident of Hawai‘i, a UH alumni, and as an ally to kānaka maoli, I strongly oppose the building of the thirty meter telescope (TMT) or any other structure which is built without the consent of the Native Hawaiian population. To build the TMT would be an act of desecration which Mauna O Wakea has already suffered, both spiritually and environmentally. To proceed with building any structure on this mauna would be an act of betrayal to the stewards of this land and the progenitors of ʻōiwi culture and way of life.
Regarding the plan's objectives, I'd like to focus on what they do not do or say. They do not mention aloha than it is productive or positive. To be a leader, I believe UH has the opportunity to be radical, to model and lead in the area of stewardship through active, engaged, and respectful protection of the mauna. I believe UH has the opportunity to be a true partner, to act on the values they list rather than just listing them as they are strategically bent to suit astronomical priorities. I’d love to see UH become a place that teaches students and communities about tending to, protecting, and loving the earth before destroying it to gaze into space. In sum, I’d like to see aloha ʻāina—not in word, but in real, radical action—reflected in the plan.

To comment specifically on Part 1: Foundations, the mission, vision, values, goals, objectives, and strategies all clearly prioritize astronomy. Even while referencing Hawaiian values and using Hawaiian terms (some of which I believe are used inappropriately), the plan itself does not truly honor Kānaka. The term “kūpono,” for instance, which is listed as one of the plan’s core values, is used to speak to astronomical resources, despite the fact that kiaʻi (protectors) have been saying for decades that the construction of telescopes on the mauna is destructive. The root of “kūpono” is “pono,” which means to be just, righteous, and fair. You cannot be pono, or just, as long as the priorities of UH are placed above those whose lands, beliefs, and values are being disrespected. In short, when the use of ʻŌlelo Hawaiʻi is used in a way that is not pono, or not truly aligned with the values being talked about, then it is tokenistic: a gesture with very little weight that is more insulting than it is productive or positive.

Regarding the plan’s objectives, I’d like to focus on what they do not do or say. They do not mention aloha ʻāina. They do not consider what true stewardship and protection could look like and feel like. They do not acknowledge the position of the Indigenous, it actually undermines Indigenous place by assuming that astronomical exploration and Indigenous cosmology are two examples of the same thing when in reality one is steeped in connection to place and aloha ʻāina and the other is built on the displacement of people, the denial of Indigenous rights, and the desecration of sacred place.

I emphasize this portion of the foreword to point to the fact that one of the key problems with the plan is that it assumes colonialism as a given, as something complete, and in the process, normalizes settler presence while denying Indigenous rights. While citing Hawaiian cultural values and nodding to Kanaka Maoli beliefs, it maintains that Indigenous ways of knowing and being in the world can be compromised and disturbed for UH’s clear commitment to astronomy.

The foreword talks about the potential to “ʻāwili,” or to weave “the diverse values Maunakea represents, striving to find balance amongst the community’s many approaches to understanding our origins and encouraging people to collaboratively protect this special place” (xiv). This statement also supports my critique that the plan does not take colonial power structures, and the fact that UH benefits from those structures, into account. It does not acknowledge the fact that you cannot “find balance” or successfully “weave” diverse values as long as the values of Kānaka are always seen as expendable and less important. There can be no balance as long as the construction of telescopes and the expansion of facilities result in destruction and desecration.

To comment specifically on Part 1: Foundations, the mission, vision, values, goals, objectives, and strategies all clearly prioritize astronomy. Even while referencing Hawaiian values and using Hawaiian terms (some of which I believe are used inappropriately), the plan itself does not truly honor Kānaka. The term “kūpono,” for instance, which is listed as one of the plan’s core values, is used to speak to astronomical resources, despite the fact that kiaʻi (protectors) have been saying for decades that the construction of telescopes on the mauna is destructive. The root of “kūpono” is “pono,” which means to be just, righteous, and fair. You cannot be pono, or just, as long as the priorities of UH are placed above those whose lands, beliefs, and values are being disrespected. In short, when the use of ʻŌlelo Hawaiʻi is used in a way that is not pono, or not truly aligned with the values being talked about, then it is tokenistic: a gesture with very little weight that is more insulting than it is productive or positive.

Regarding the plan’s objectives, I’d like to focus on what they do not do or say. They do not mention aloha ʻāina. They do not consider what true stewardship and protection could look like and feel like. They do not acknowledge the Indigenous wisdom that Kānaka have to offer about how to exist in relation to the natural world. They do not go beyond astronomy. This is a problem.

To be a true leader, I believe UH has the opportunity to be radical, to model and lead in the area of stewardship through active, engaged, and respectful protection of the mauna. I believe UH has the opportunity to be a true partner, to act on the values they list rather than just listing them as they are strategically bent to suit astronomical priorities. I’d love to see UH become a place that teaches students and communities about tending to, protecting, and loving the earth before destroying it to gaze into space. In sum, I’d like to see aloha ʻāina—not in word, but in real, radical action—reflected in the plan.

I raise these issues and critiques because they speak to the core problems of the plan as a whole. To continue to allow for the expansion of astronomy on the mauna is to continue to disrespect, desecrate, and destroy Indigenous places, beliefs, and futures. This must be addressed and must be remedied. Anything less than a halt to construction and a genuine respect of ʻāina will not be acceptable.
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 327
Date submitted: 10/26/2021
Name: Linda Hunter
Organization: none
City, State, Zip: Honoka'a, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Within the last few days, two of Hawai'i's telescopes have made international news: the tracking of asteroids within close proximity of Earth by the Daniel K. Inouye telescope on Haleakala, and through the Subaru telescope on Mauna Kea, the discovery of a young planet near a distant star, providing insights about how planets are formed. Imagine the brain busting advancements that will be made by the TMT! Ironically, while advances in astronomy were making headlines, a group of TMT protesters demonstrated outside the home of UH President, David Lassner. The result was an immediate backlash by at least 98 commenters in the Star-Advertiser, supporting the TMT and denouncing the very loud minority. As Lucy told Charlie Brown, "If you can't be right, be wrong at the top of your lungs."
There is no need for science, culture, and religion to be mutually exclusive but interwine, each supporting the others. If we live only for science, we lose the beauty of the sacred that gives us our conscience. If we live only for the sacred, we lose knowledge of this precious world.
Freedom of science and inquiry cannot be repressed; nobody, no matter how they try to justify it, has the right to slam the lid on knowledge.
Major advancements through the most powerful telescope ever developed will honor the navigational skills of the brave early Hawaiian explorers and has tremendous implications continuing man's inherent drive to push beyond known boundaries, finding forming galaxies near the beginning of time.
Rather than threatening this sacred heritage, the TMT will enhance and enable the furthering of Hawaiian culture and beliefs, so intrinsically aligned with astronomy, while continuing to contribute millions of dollars annually to education and the economy.
Discoveries of our genesis will be Mauna Kea's everlasting gift to the world.
Imua TMT!
Submittal Number: 328
Date submitted: 10/26/2021
Name: P Else
Organization: Pahoa, HI

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: I did submit detailed comments via the online tool. I congratulate the University on these tools that make commenting on the plan so easy and thorough.

As a summary of my overall viewpoints, I have commented below.

The overarching goals of the new Master Plan are to reduce impacts to the resources, especially in the summit region, by limiting development; to create better balance among cultural, environmental, scientific and recreational interests; and to broaden Native Hawaiian and community participation in planning and programming.

I do not think that reducing impacts to resources will be served by decommissioning telescopes. The fuel oil burnt in removing structures is the most significant impact to the environment. There is also increased risk of invasive species with the traffic involved in decommissioning. Native plants and other species are currently monitored very carefully and are protected. The telescopes do not directly impact these resources. The best outcome would be to make continued use and improvements to the facilities already developed on the mountain. An unused telescope facility could be used as a cultural site for cultural worship and education. The facilities exist. Wanting them to be gone and disappeared ignores the costs of dismantling them; which could prove to be a more grievous injury in total, and wastes the resources initially used.

There are challenges in balancing the cultural, environmental, scientific, and recreational interests but I think the University in recent years has tried hard to work towards managing these interests. However, it would be a mistake to think that all these interests can be balanced in the same location and way, and that is why there are different preserves with different goals. The primary goal of the science preserve is science. The primary goal of the cultural preservation sites is to protect.

I believe the scientific and environmental issues are currently fairly well managed and balanced.

Recreation has been limited in commercial operations but the burgeoning interest by individual tourists has not been well-managed. Rather than being treated only as a problem which should be limited; this interest could have been viewed and developed as an benefit to create more opportunities for both cultural and astronomical education, employment, and support.

Cultural recognition and integration has been delayed, and complicated by issues playing out in other venues. Mauna Kea is not the best place to solve these overarching issues. Astronomy began developing on Mauna Kea before the Hawaiian cultural renaissance gave voice to the people. Over time, I think cultural issues have become more integrated in management but are challenged by the great diversity of viewpoints and goals among Hawaiians. There is no one correct view, but there is a need to balance and portray issues accurately, without the rampant misinformation, reflecting that diversity of viewpoints and cultural interpretations.

Comments on the plans highlights:

Fortification of UH’s commitment of no more than nine operating astronomy facilities on Maunakea by December 31, 2033. I disagree with this goal. It was created in an aura of political confusion based on misinformation and lack of research before promises. It accomplishes nothing that satisfies either the cultural opposition or the scientific goals of the astronomy program. It was not based on environmental protection rationales nor does it serve cultural goals.

Providing mechanisms to seek and consider input from the native Hawaiian community and the broader community in the decision-making framework.

These mechanisms have been in existence for years and have been widely utilized. Input from the native Hawaiian and broader community has been extensive and has resulted in significant changes already to the management of the mountain. At some point there must be a final decision that is honored, as adequate information has been presented.
Support for the UH Hilo Educational Telescope at Halepōhaku (the mid-level facility).
I support the existence of a student telescope and Halepōhaku may be the best location short of the summit. However, as stated above, I believe the decommissioning goals were politically set without fact-checking and adequate understanding of the realities of the summit and differences among the telescopes. I do not believe Native Hawaiians or any Hawaii residents want their own students to be short changed by lack of access to the best viewing site in the world, when it is located in the land of their heritage.

Establishing a UH Hilo-led “Multi-disciplinary Field Station” at Halepōhaku to support field studies and learning experiences across disciplines.
I think this is an extremely important and viable goal, educationally and culturally relevant. It continues to make use of the valuable resources of this facility.

Maintaining the Maunakea Observatories’ status as world leaders in astronomy.
As someone who lost their job in the pandemic, and saw the impacts to Hawaii’s ‘over dependent on tourism’ economy; I think it is vital that we diversify and have other sources of income. We have been and can continue to be world leaders in this technical field, which will encourage innovation and widespread new industries.

It is vital for our youth to have more opportunities than jobs in tourism enterprises. It will bring up the achievement level and educational quality in our low ranking schools.

Those who first settled Hawaii were among the most knowledgeable and skilled star gazers in Human history. It would not be culturally appropriate or beneficial to abandon that status. It is not in the tradition of aloha to deny the rest of the world the knowledge and opportunities that result from this world class site.
Konveio General Comment Forms

Submittal Number: 329
Date submitted: 10/26/2021
Name: Jessica Kuzmier
Organization:
City, State, Zip: Kailua Kona, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Aloha, I have read the Master plan and also heard the presentation on YouTube, and it is my hope and also my concern that you observe kuleana by recognizing that you are a guest on the mauna and that the land belongs to the people. I am completely for astronomy and for the prospective plans for TMT, as long as they coincide with the principles not only of recognizing cultural needs, but that of climate change and conservation.
From my reading of the plan, there appeared to be some level of evasion whereby you offered a concession to conservation but only with major caveats that seemed to suggest a back door for you to escape. An example is your stated concern about total restoration after the removal of various telescopes and full restoration, whereby you stated that full restoration would entail moving a parking lot to an endangered habitat.
To be frank and with all due respect, this kind of statement seemed to suggest that you were saying ‘if everything was perfect, we could restore everything the way it was, but since it isn’t, let’s just leave everything as it is and see what happens’. As professional scientists and engineers who are aware of the biome and ecosystem on the mauna, I believe you can do both, protect the habitats while making visitation accessible for those who need and want it so I suggest that you proceed with this objective of full restoration to the mauna's original state prior to the construction of the telescopes, once the scheduled ones are removed.
I also suggest that as joint co-tenants with the DLNR and as an institution that emphasizes other hard science disciplines such as biology and geology, that you increase your studies in arenas other than astronomy as it appears that your major focus is astronomy at the expense of other focuses. The Multi-Disciplinary Field Station at Hale Pōhaku sounds like a good start, and I have some suggestions for your project as you go forward with this objective.
I am aware that part of the Science Reserve shares space with the Mauna Kea Ice Age Natural Area Reserve. It is vital that any and all activities that take place in the Science Reserve, regardless of discipline, preserve the vitality of the ecosystem that resides there by insuring any runoffs and spillages that are incurred by the astronomical facilities. I also believe that utilizing the disciplines of ecology, biology and geology, as well as engineering skills, you can provide both education for the public and your own student body as well as an eye to the future by creating a biodegradable, zero-waste environment for all proposed construction and facility operations, with the eye on zero-emission by 2030.
Additionally, although the main focus of all disciplines take place above the treeline, I believe that the Master Plan should emphasize and increase collaboration with the DLNR to participate in the Mauna Kea Restoration Project, as facilities such as the Hale Pōhaku that are facilitated by the University are within the scope of the project, as well as restoration of the palila habitat. Projects such as watershed conservation and education, establishing weather stations to teach and focus on climate change and what we can do to mitigate the effects, are important as well.
As a side note with regards to the Mauna Kea Restoration Project, there is a way that University of Hilo can kuleana not only to the island but the world as well. I am sure that you have heard of the Better Globe Forestry Foundation’s goal to plant, restore or set aside enough preserved land to reach 1 trillion trees by 2030. As a state, Hawaii has pledged 100 million trees, and Hawaii County itself has so far pledged 1 million of these trees. As your lease resides on state property, located on Hawaii Island, I suggest that you pledge native trees and alpine plants such as ‘Ahinahina (Hawaiian silversword) and Māmane trees, as they are endemic at the lower ranges of your preserve as part of this international kuleana to restore and regenerate our world. After all, as an entrusted servant to educate our future leaders, you have a responsibility to ensure that the future that they inhabit is one where they can enjoy the natural wonders of the world, as well as making sure that you do what you can to ensure that future is habitable, sustainable and enjoyable for them.
Mahalo for taking the time to hear my perspective and all the voices that contribute to our ohana.
Submittal Number:  330  
Date submitted:  10/26/2021  
Name:  Alzira Fernandes  
Organization:  University of Hawaii at Manoa  
City, State, Zip:  Honolulu, HI  0

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:  I do not agree with the building of the telescope on sacred land. Plain and simple. I believe in scientific advancement for all peoples, but we need to listen to the people for whom the land is sacred. The building of this telescope would be against UH's core values.
Submittal Number: 331
Date submitted: 10/26/2021
Name: margaret Walker
Organization: Coldwell Banker
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Comments on Missions, Vision, and Values: For decades, kanaka maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawaii and abroad in opposition to the building of the 30 meter telescope on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration. Over half a million kanaka mail, residents, and world citizens have provided testimony at countless hearings and petitions opposing the building of the TMT on the summit of Maunakea.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepohaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 333
Date submitted: 10/27/2021
Name: Julie Kaai-Kanekoa

Comments on Missions, Vision, and Values: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on Goal and Objectives: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on Strategies: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on Halepōhaku facilities: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on management and stewardship facilities in the MKSR: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on education, research, and astronomy facilities in the MKSR: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on access management facilities: X

Comments on proposal review process: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

Comments on design guidelines: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!

General/Other comments: NO TO ANY IDEAS PLANS OR CONSTRUCTION ON OUR BELOVED MAUNA KEA/ANYWHERE IN HAWAII!!
Submittal Number:  334
Date submitted:  10/27/2021
Name:  Karelle Siellez
Organization:  Institute of Astrophysics in Paris
City, State, Zip:  Paris, 0
Comments on Missions, Vision, and Values:  While it is great to acknowledge that mistakes has been made in the past, it would have been fair to reconsider the stewardship of UH regarding Mauna Kea.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:  While repurposing facilities "as close as before" that can be is the minimum that could be done, maybe considering what has been lost and will never been retrieve in the process could help shape the future decisions. So when it comes to creating another telescopes, now is the time to listen to the voice that have never been wrong, and always protected the Mauna.

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:  As an astronomer, I feel that Kanaka Maoli cultural practitioners are the rightful caretakers of Mauna Kea, and not UH. While I understand the need to find another way for people to have access to a "more diversified economy that includes greater support for research, education, and technology and less dependence on tourism", I don't understand why you're not giving back the stewardship to the people who always seek the protection of both: people and the land. Knowledge can be gain in another way, Science would gain to be decolonized, and UH could be a pioneer in working hand in hand with Kanaka Maoli cultural practitioners by giving them back the protection of the mountain, and with astronomers by showing them another way of learning and listening. Science without social justice is not the way, and it starts with listening to each single one of the native Hawaiian. Thanks
Submittal Number: 335
Date submitted: 10/27/2021
Name: Kainalu Steward
Organization: University of Hawaii at Hilo
City, State, Zip: 
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: As a Native Hawaiian, alumni of UH Hilo and current graduate student at the university, I do NOT consent to the building of the Thirty Meter Telescope (TMT). It is disappointing and gut wrenching to have to see this process continuously being pushed upon our people at the expense of astronomical development, after countless expressions from the community that we do not want TMT to be built. As a student and a Hawaiian, I expect my university to support the decisions of the Native people, who's land we currently reside and extract way too much from. Mahalo for your time.
Submittal Number: 336
Date submitted: 10/27/2021
Name: Kathleen Price
Organization:
City, State, Zip: Waialua, Hawaii 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: Interesting show on History Channel Ancient Aliens S14/E12 Islands of Fire. Discusses how native Hawaiians trace their ancestry to beings from the Pleiades star system called Akua. Show may provide some insight and argument as to why Hawaiians should con

Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Submittal Number: 337
Date submitted: 10/27/2021
Name: D. Maui
Organization: 
City, State, Zip: ,

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: A minority group of hard core native Hawaiians has taken an anti-haole/anti-statehood stance that opposes the TMT on those grounds. They are anti-astronomy, anti-science, and anti-education. Using the guise of "culture", their every whim has been granted by the haole invaders. They thrive by living in the past. They continue to praise pagan gods and worship their "sacred rocks", all while carrying smart phones. In Egypt, 4,500 years ago, the Egyptian people had their pagan deities as Egypt was ruled by the pharaohs. Today, no one in Egypt worships the old pagan gods anymore; the 2 main religions are Muslim & Coptic Christian. This fact illustrates that Egyptians are far more educated than the hard core Hawaiian natives who still revel in their past. They don't want any telescopes atop Mauna Kea; time to give them what they want. Decommission/dismantle all telescopes and prohibit all new ones. They claim that they never voted for statehood, so revoke it; let them rule their kingdom with no aid from the U.S. Don't fret about the kingdom; when it needs help, Beijing & Kim will line up to assist them but the price will be much worse than that under the USA. Immigrants from around the world are literally dying trying to gain access to the benefits of the U.S. The USA should take applications from any nations that WANT to become the 50th state. Enough of the whining, crying, sniveling from the hard core natives who defy the haole courts by speaking in Hawaiian when they are teachers of that language at UH Manoa. I am confident that the UN General Assembly will not provide a translator into the Hawaiian language since the person has a firm grasp on the English language. Once statehood is revoked the kingdom can replace the statehood holiday with their preferred choice: "K_Il Haole Day" (the last day of school)and if they cannot choose between the 2 preferential dates for the new holiday, then celebrate the day twice each year---once on September 11 & again on December 7th. The majority of native Hawaiians will not speak up against this minority; they are well aware of their vicious, retaliatory nature. Once the kingdom is restored, perhaps, the new rulers will bring back ALL of their culture, including human sacrifice and cannibalism? The biggest failure of the hard core natives is that they believe that the Hawaiian culture is superior to ALL others on earth. Currently, there is no "aloha" in Hawaii; tourists are haole intruders; those who move here are haole invaders. Tourists should be urged to vacation elsewhere: Tahiti, Pago Pago, Fiji, etc. Once the world learns that Hawaii is not the paradise that they were lead to believe and they take their tourist $$$ elsewhere, the islands of Hawaii will become a haven for the homeless, the unemployed, and few will have access to decent healthcare. THIS is where the hard core minority natives are taking Hawaii; BACK 10,000 years to the stone age, "sacred" stones that is... D.
Submittal Number:  338  
Date submitted:  10/27/2021  
Name:  Michael Nassir  
Organization:  Univ. of Hawaii  
City, State, Zip:  ,  

Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  I strongly recommend NOT forcing the decommissioning of 2-3 additional facilities (like UKIRT, UH 88", or IRTF) while they are still in such active, productive scientific use. For relatively low cost and low impact, they continue to make outsized scienti
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  I strongly support the construction of TMT. It will ensure that the Big Island will continue to have a strong influx of external funding and hundreds of high-paying jobs. Plus, it will help to continue Hawaii's reputation world-wide as a place where inspirational science is conducted and shared with the world.
Submittal Number: 339
Date submitted: 10/27/2021
Name: Anonymous Anonymous
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: This is a wonderful opportunity for our Keiko and our State to strategically embrace the an industry that can create future jobs for our kids in a high tech, growing space that already aligns with our educational and cultural initiatives at all educational levels. This and all developments need to be done in a Pono and sustainable manner, however, assuming that is the case this project represents a huge opportunity for Hawai‘i to be a leader in this space and to be part of the global science in understanding our place in the universe. We seems to have a reactive perspective to this project instead of a forward thinking strategy for our entire state. How will our kids grow up and make a living in Hawai‘i? We complain about the low wages of a tourism based ecomony, we’ll this is a great opportunity to start to diversify our economy which is part of being sustainable. This project needs strong leadership but I believe this project should move forward as it benefits our keiki, our states strategic vision, UH, and our planet. Can unused telescopes be taken down? Why not? But please continue to move forward with this project. It might not be popular but it’s the right move and the right communication and strong leadership can be supported by the community at large.
Submittal Number: 340
Date submitted: 10/27/2021
Name: Laurie Avilla
Organization:
City, State, Zip: Anahola, Hawaii 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives: Aloha,
Mahalo for taking the time to read my comment;
To you and all your investors I, and my Ohana are not Pono with the decisions your "stewardship" have been doing since this inception of All these telescopes. 1) What happened to the state motto of

Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
To Whom It May Concern,

The Kona-Kohala Chamber of Commerce brings together the business community as a strong, united voice to address key issues in our community, on our island and in our state. Founded in 1968, our 430 member businesses and organizations represent a wide range of industries such as agriculture, aquaculture, astronomy, banking, construction, education, finance, food service, healthcare, media, non-profits, retail, real estate, tourism, technology, transportation and more. We exist to provide leadership and advocacy for a successful business environment in West Hawai‘i. Our goal is to enhance the quality of life for our community through a strong, sustainable economy on Hawai‘i Island.

We support the Draft Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Ka Leo. We believe in the UH’s mission and purpose to “Sustainably steward Maunakea for the benefit of our communities, Hawai‘i, and the world, as a publicly-accessible learning landscape where all who visit learn, and those who seek something more discover through rich multi-cultural experiences and multi-disciplinary discourse. Provide opportunities across the schools of the UH system and community partners to engage with the mauna in ways that perpetuate and advance knowledge, wisdom and values while fostering mutual understanding and respect.”

For many years, the Kona-Kohala Chamber of Commerce has identified Astronomy as a top priority. We strongly support the astronomy industry on Maunakea noting significant scientific discovery, global leadership, educational outreach, workforce pipelines, jobs and economic impact. Hawai‘i has worked diligently to diversify its economic sectors and attract high tech industry to create more opportunities. Hawai‘i’s astronomy sector provides needed economic diversity with a statewide impact of $167 million. Astronomy activities generate over $52 million in earnings, over $8 million in state taxes and 1,400 jobs statewide.

In the Master Plan’s opening message from the UH Board Chair and UH President, they state, “UH remains committed to ensuring that our astronomy program is one of the best in the world, offering world-class opportunities for our students and faculty while driving economic activity that helps diversify Hawai‘i’s economy and employment opportunities.”

They also state, “UH’s Institute for Astronomy is one of the Nation’s largest and finest university astronomy programs, a source of pride to Hawai‘i, because the astronomy facilities on Maunakea stand as the most respected and productive in the world.” We are very grateful to the UH Institute for Astronomy and Maunakea’s astronomy industry for well-developed, impactful programs that better prepare Hawai‘i students to become the workforce for higher paying science and technology jobs in Hawai‘i’s 21st century economy.

We strongly support University of Hawai‘i management and state lease renewal on Maunakea. The University of Hawai‘i is by far the best option for a management structure on Maunakea and the lease renewal of 2033 is an urgent matter that must be addressed soon. The University has taken significant steps to address issues and improve management. We applaud the depth, scope and considerations embedded in the Master Plan pertaining to land use and facilities along with the Comprehensive Management Plan that fully outlines related activities and resources. UH recognizes that it must protect Maunakea’s value as a culturally significant landscape as well as a premier location for astronomy. Additionally, UH acknowledges this special place is a destination for residents and visitors seeking cultural, educational, recreational, and exploration experiences. With entities in place such as the Center for Maunakea Stewardship, ‘Imiloa Astronomy Center and
the Institute for Astronomy, the University of Hawai‘i has broad resources, vast knowledge and a steadfast commitment to provide the best possible stewardship under very complex circumstances.

We support culture, science and environmental stewardship on Maunakea. Maunakea is one of the best locations in the world to study the stars. Our clear nighttime skies are one of Hawai‘i’s most precious natural resources that not only benefits those in Hawai‘i but all of humankind. We understand and respect the cultural values associated with Maunakea and believe science and culture can and will harmoniously co-exist in this special place. As mentioned in the E Ō I Ka Leo introduction, we support UH’s intent that this plan “serve as a framework for aligning land use decisions, management actions, and educational programs in a way that strengthens everyone’s connections to this special place by integrating traditional and contemporary knowledge and practice where possible.” In fact, we recognized the University’s commitment to culture on Maunakea in 2017 when the UH Hilo Office of Mauna Kea Management (now Center for Maunakea Stewardship) was the recipient of the Kona-Kohala Chamber of Commerce Pualu Award for Culture and Heritage. The Chamber’s Pualu Awards recognize businesses, organizations or individuals that work together for the betterment of Hawai‘i Island. The meaning of pualu translates to “all together, in unison, and cooperative.” (Pukui & Elbert, 1986)

We support expanded educational activity and construction of a new UH observatory at the Halepōhaku Mid-Level Facility to continue the important work of teaching, training and conducting research. As mentioned in the plan’s opening message, “Efforts already underway to elevate culture and education as key priorities alongside astronomy and land stewardship have begun with the assignment of responsibility to the ‘Imiloa Astronomy Center of Hawai‘i. ‘Imiloa is developing additional necessary and appropriate educational programming for those who work on and visit Maunakea and improving the interpretive experience at the Maunakea Visitor Information Station at Halepōhaku.” In Part 2, Section 3 of the Master Plan, it states, “The facilities at Halepōhaku are essential to UH’s ongoing astronomy program and management.” In the UH Commitment Regarding Use of Halepōhaku, it states, “The only astronomy facility that will be proposed at Halepōhaku is the UH Hilo educational telescope.”

Lastly, the Kona-Kohala Chamber of Commerce strongly supports the development and future operations of the Thirty Meter Telescope (TMT). Although this Master Plan draft does not specifically address TMT, we must voice our support for this permitted project. Since 2009, TMT has contributed millions of dollars to educational initiatives for Hawai‘i Island students that include The Hawai‘i Island New Knowledge (THINK) Fund, Workforce Pipeline and Akamai Internship Program. Additionally, TMT will provide 300 local and specialized construction jobs during the construction phase, and once the telescope is complete, employ 140 staff. TMT’s commitment is to fill these positions with as many Hawai‘i residents as possible and use local businesses for support services. We must acknowledge the positive contributions of TMT for our island community.

We greatly appreciate the opportunity to ‘voice’ our comments of support for the UH Master Plan for the Maunakea Lands, E Ō I Ka Leo.

Sincerely,

Wendy J. Laros, President and CEO
Kona-Kohala Chamber of Commerce
The Water Protector Legal Collective (“WPLC”) is an Indigenous-led legal non-profit organization dedicated to providing legal support and advocacy for Indigenous peoples and Original Nations, the Earth, and climate justice movements. The WPLC submits this comment to the University of Hawaii (“UH”) regarding the UH Draft Master Plan, E O I Ka Leo (Listen to the Voice) for land use management on Mauna Kea.

As the UH Draft Master plan acknowledges, in addition to its cultural landscape and unique ecosystems, as well as topographic and atmospheric qualities, Mauna Kea is a sacred place that is essential to Kānaka Maoli (Native Hawaiian) culture, spirituality, and ancestral knowledge. The Draft Master plan states that the UH “recognizes that Maunakea’s cultural landscape and natural resources must receive the same respect as scientific research if astronomy is to continue and that preservation, education, and research, should reinforce, rather than conflict with one another. It also recognizes that UH must continue to observe the rights of cultural practitioners and be sensitive to the unique importance and symbolism that these lands have to Native Hawaiians.” While this renewed vision is a step in the right direction, along with a stated commitment in the Draft Master plan to decommission astronomy facilities on the mauna to no more than nine (9) total, the UH must go beyond words and diplomacy and recognize that if it to truly “E O I Ka Leo” (Listen to the Voice) as the name of the plan suggests, it must recognize that its stewardship of Mauna Kea requires UH to understand that any further development, particularly in the form of building a Thirty Meter Telescope (“TMT”) on the summit (“Astronomy Site 13”) would constitute irreparable desecration to a sacred site.

WPLC urges the UH to protect Mauna Kea. Specifically, WPLC notes and recommends the following:

1) The UH must unequivocally cease any further development of TMT. Strategy 10 indicates it would facilitate the development of a new astronomical facility on Astronomy Site 13 and upgrade or repurpose up to three (3) existing astronomy facilities. While the plan recognizes there is some uncertainty regarding TMT, permitted for Site 13, the uncertainty comes from potential federal review of the project by the U.S. National Science Foundation, not from a willingness to change its plans for development.

2) The UH Draft Plan fails to present special or concrete measures on how it will include the voices of Kānaka Maoli, and is silent on ways it will provide access to the site and says nothing of the free, prior informed consent necessary from Kānaka Maoli as original peoples of Hawai‘i. The Draft plan states: “From what we have heard from the community, it is clear that we have more work to do in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as we make decisions.” This is a start, but must consider
actively how it will achieve this beyond the creation of committees and public fora, as well as understanding that consultation does not amount to consent.

The UN Declaration on the Rights of Indigenous Peoples (“UNDRIP”), adopted by the United Nations General Assembly in 2007 and recognized by the U.S. State Department as having both moral and political force, recognizes, among other things, that Free, Prior and Informed Consent (“FPIC”) is a pre-requisite for any activity that affects Indigenous ancestral lands, territories, or natural resources—not just mere consultation.

FPIC “recognizes Indigenous peoples’ inherent and prior rights to their lands and resources” and respects their authority to “require that third parties enter into an equal and respectful relationship with them based on the principle of informed consent. Procedurally, free, prior and informed consent requires processes that allow and support meaningful choices by Indigenous peoples about their development path.”

3) The UH Draft Plan fails to recognize that building the TMT on Mauna Kea’s summit would constitute irreparable desecration, impacting the culture, spirituality, and ancestral traditions of Kānaka Maoli amounting to cultural genocide.

Article 7(2) of the UNDRIP states: “Indigenous peoples have the collective right to live in freedom, peace and security as distinct peoples and shall not be subjected to any act of genocide or any other act of violence...” Similarly, Article 8.2 of the UNDRIP says “States shall provide effective mechanisms for prevention of, and redress for... any action which has the aim or effect of depriving them of their integrity as distinct peoples, or of their cultural values or ethnic identities [and] any action which has the aim or effect of dispossessing them of their lands, territories, or resources.”

The systematic destruction of culture that occurs with loss of access to historical, ancestral lands of cultural significance, leads to irreparable harm and in cultural genocide when distinct peoples are dispossessed of their cultural values and identities.

4) The UH can resolve past historical injustices inflicted up and experienced by Kānaka Maoli by not adding to additional cultural trauma and impact.

Although the UH states that the Draft plan “cannot resolve past historical injustices” it can certainly choose to do things differently and respect and protect Mauna Kea as a sacred and cultural site. While the argument that astrological research may be “critical to fully understanding humanity’s place in the cosmos”, the UH cannot make this argument while at the same time forgetting its own place on this Earth. We urge the UH to consider that with stewardship comes important responsibilities for maintaining Mauna Kea for future generations.

On behalf of the Water Protector Legal Collective, thank you for the opportunity to provide comments at this important juncture.

Sincerely,

Natali Segovia, Esq.
Legal Director & Staff Attorney, Water Protector Legal Collective
Mni Wiconi. Water is Life.
Submittal Number:  343  
Date submitted:  10/27/2021  
Name:  Tutui Akana  
Organization:  UH Ka Haka ʻUla Language School and Waimānalo Hawaiian Civic Club  
City, State, Zip:  Honolulu, Hawaii  0  

Comments on Missions, Vision, and Values:  The mission is well written, however, the politics of the state as well the University of Hawaiʻi has a long history of not truly listening and upholding said Hawaiian values. For decades, Kanaka Māoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawaiʻi and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. Over half a million Kanakas, Hawaiʻi residents, and world citizens have provided testimony at countless hearings, signed positions, and petitions opposing the building of the TMT on the summits of Mauna Kea, the highest, and most sacred piko of our islands; some kanakas even believing the Mauna Kea marks the beginning of the creation of the Hawaiian nation.  

Comments on Goal and Objectives:  

Comments on Strategies:  

Comments on Strategies:  

Comments on Strategies:  

Comments on strategies:  

Comments on management and stewardship facilities in the MKSR:  Reiterating again about how politics play a role in this issue, how do the needs and wants of a few in power outweigh the cry of the majority in opposition to Mauna o Wākea? TMT will be positioned on stolen Hawaiian lands and in the middle of a conservati  

Comments on education, research, and astronomy facilities in the MKSR:  

Comments on education, research, and astronomy facilities in the MKSR:  

Comments on education, research, and astronomy facilities in the MKSR:  

Comments on access management facilities:  

Comments on proposal review process:  

Comments on design guidelines:  

General/Other comments:  It is sad to see the downfall of my people still occurring in my lifetime while I am studying for the restoration and revitalization of our culture at UH Hilo, Ka Haka ʻUla o Keʻelikōlani. If she was here, she would not argue what is pono and not pono about this issue. It is indeed a burden to carry as a native person, to watch as our most sacred places fall to the hands of greed and money, in the name of "Science" and now "culture"... but such terminology brings back painful history that has been inflicted on my kūpuna (who are STILL ALIVE) that I continue to feel now in my koko and my hā.  

Shame on the university of using Hawaiian values and ʻōlelo to champion this project, but totally missing the whole point of these values and ʻike just because of greed and kālā. Shameful.
Submittal Number: 344  
Date submitted: 10/27/2021  
Name: Sunaina Keonaona Kale  
Organization:  
City, State, Zip:  
Comments on Missions, Vision, and Values:  
Comments on Goal and Objectives:  
Comments on Strategies:  
Comments on Halepōhaku facilities:  
Comments on management and stewardship facilities in the MKSR:  
Comments on education, research, and astronomy facilities in the MKSR:  
Comments on access management facilities:  
Comments on proposal review process:  
Comments on design guidelines:  
General/Other comments:  Aloha,

My name is Sunaina Keonaona Kale. I’m Native Hawaiian, and I’m a postdoctoral fellow at Dartmouth College. I did my PhD at UC Santa Barbara and BA at UC Davis. Here are my comments:

--The State of Hawai‘i and UH have no jurisdiction over Mauna Kea but are leasing it at $1 a year. Mauna Kea is crown lands and therefore stolen. All of the items suggested in the plan are therefore illegal. The master plan is framed as if everything in it is definitely going to happen, but this is not the case.

--It is disingenuous to call the draft “e ʻō i ka leo” and to say that you are listening to Native Hawaiian voices. You are not. We have said repeatedly that we don’t want TMT but you have refused to listen. We did not ask for “cultural engagement” as a part of the TMT’s plan, and it will not make it for the fact that you are not listening to us.

--Item 5.3 in the “Physical Plan” that designates that you are planning to build a gate to manage who can go up the mauna is an attempt to prevent kia‘i from accessing the mauna. This is unacceptable and extremely concerning.

--I take issue with the framing of the managers of the TMT as land stewards, and especially describing what they’re going to do with the mauna as land stewardship. To me, this feels appropriative of Kanaka Maoli concepts of mālama ‘āina, aloha ‘āina, and land stewardship. You are not actually stewarding the lands, you are occupying them and harming them. You are using our cultural concepts to obscure the damage you’re planning to do to the mauna.

--Expanding the facilities on the mauna is also concerning. You are inviting more and more people to come. Our kūpuna knew that going up the mauna was something that they could do rarely because it is part of the wao akua. The ecosystem is so fragile and it does not support human habitation. Inviting more people to go up will only increase harm on to the mauna.
Submittal Number: 345
Date submitted: 10/27/2021
Name: Samuel Gillie
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values: Maunakea is truly unique in the World for its Astronomy potential. Hawaii has an obligation to respect that potential as a fellow caretaker of the World’s natural assets. Proper development of that astronomy potential provides unmeasurable benefits to both the World and Hawaii’s citizens. I fully support the development of Maunakea’s astronomy potential based on our current culture values and standards and with due respect for our historical cultures.
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepohaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments:
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: UH has no right to take ownership over Mauna Kea. This 'āina should be returned to the Hawaiian people and removed from the university's control. It is clear UH disregards the indigenous peoples' rights over the mauna and their stewardship knowledge.

The TMT MUST NOT BE BUILT. Not now, not ever. Just because the lahui is not blocking the access road today, doesn't mean they won't tomorrow. It is a fundamental disregard for the Hawaiian people to continue the TMT plans. The strength of the opposition to the telescope cannot be denied when it is the literal movement of people that have blocked its construction for YEARS now. How dare UH say it must still consider other voices and test sentiments, when the strongest sentiment is abundantly clear. A'ole TMT!
Submittal Number: 347
Date submitted: 10/27/2021
Name: Lyann Lau
Organization:
City, State, Zip: Honolulu, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Fully support the TMT! Hope to see this get built. The foundation has provided much needed funding and outreach to education in Hawaii. As someone who was born and raised in Hawaii, it saddens me to see that STEM is not prioritized here.
Submittal Number: 348
Date submitted: 10/27/2021
Name: Ryan Lau
Organization: ISAS/JAXA
City, State, Zip: 
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Hello,
This is Ryan Lau, I'm an astronomer born and raised in Honolulu, HI and am now an International Top Young Fellow (ITYF) affiliated with the Japan Aerospace Exploration Agency (JAXA) in Japan. As an astronomer who has conducted many observations using the facilities on Mauna Kea, I wanted to express my support of the framework for the revised master plan. I strongly agree with the goals and objectives and wanted to emphasize the positive impact that astronomy on Mauna Kea has on the community, especially with providing direct opportunities for young students to engage and pursue careers in Science, technology, engineering, and mathematics (STEM). I believe that the goals and objectives of the master plan draft also demonstrate the importance for astronomers who use the facilities on Mauna Kea to understand the broader ecological, cultural, and educational significance of the Mauna Kea Lands. I hope that this master plan can serve as the catalyst for all communities to come together and strengthen the unique opportunities granted by Mauna Kea.
Best,
Ryan
**Comments on Missions, Vision, and Values:** Kanaka Maoli have been advocating for the protection of Mauna Kea, for the protection of their own sacred lands, for decades. Kanaka Maoli have organized mass demonstrations all over Hawai'i, globally, and the occupation of Mauna Kea in order to prevent construction of the Thirty Meter Telescope to protect Mauna Kea. Building yet another telescope, the TMT, would be an act of continuous desecration of stolen Hawaiian land. The movement to protect Mauna Kea has support all over the world, as hundreds of thousands of people oppose building the TMT on Mauna Kea and have made that clear through testimony, petitions, and rallies. Kanaka Maoli have always been highly skilled astronomers without enacting any of the destruction that settler telescopes have. Desecration is not science. Building the TMT would not be contributing to astronomy, but instead desecrating stolen sacred Hawaiian land.

**Comments on Goal and Objectives:**

**Comments on Strategies:**

**Comments on Halepōhaku facilities:**

**Comments on management and stewardship facilities in the MKSR:**

**Comments on education, research, and astronomy facilities in the MKSR:**

**Comments on access management facilities:**

**Comments on proposal review process:**

**Comments on design guidelines:**

**General/Other comments:**
Submittal Number: 350
Date submitted: 10/27/2021
Name: H. Doug Matsuoka
Organization: Hawaii Guerrilla Video Hui
City, State, Zip: Honolulu, HI 0

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments: I strongly oppose any plan that will allow continued efforts to build the 180 foot tall observatory known as the Thirty Meter Telescope (TMT) on Mauna Kea. I am not Kanaka Maoli but I am local (born in Hilo, living in Honolulu) and old (born 1952). Notwithstanding worthy legal and spiritual arguments against TMT specifically and observatories generally on Mauna Kea, there are common-sense reasons against building such that are often overlooked.

I get that the peak of Mauna Kea is a great place to build astronomical observatories. It is the highest point in the entire Pacific and situated in a place under stable subjugation of a major military superpower.

I get why the first observatories were built there. That was more than half a century ago and I remember the era. There were fewer Hawaiians. They were a smaller percentage of the population, and there was far less understanding of Hawaiian history, culture, and language than there is now.

A devastating tidal wave hit the island in ’61 and where Oahu had Waikiki and an economically thriving Honolulu, the island of Hawaii had not so much. Honolulu saw a condo building boom where the island of Hawaii had nothing to drive such a boom. Until the summit of Mauna Kea was recognized as an ideal place to build astronomical observatories. What ensued was Mauna Kea as a boomtown for observatory development. This was done on “public” land and the development, unlike condo development of Oahu, required very little by way of infrastructure.

The current opposition to building on this “public” land comes from the origins of ceded lands that are becoming widely known to the current generation. Without trying to over-emphasize things, these ceded public lands were taken from the Hawaiian Royalty by way of an armed insurrection, then attempted to be ceded to the United States during annexation. This should strike the common sense of the public as offensive, illegal, and in any case completely reprehensible.

Most older people don’t know this part of history because it certainly wasn’t taught to us. Senator Lorraine Inouye famously declared that she didn’t know if there was such a thing as ceded lands. But an increasing number of younger people do know, however.

Public opposition against TMT can only continue to grow as the history of Hawaii becomes clearer. If you want, you have the option of looking back at the “good ole days” of building observatory after observatory on Mauna Kea, but for the world we now live in, you have no real choice but to abandon using Mauna Kea as a boomtown for observatory development.

H. Doug Matsuoka
Hawaii Guerrilla Video Hui
Submittal Number: 351
Date submitted: 10/27/2021
Name: Thomas Chun
Organization:
City, State, Zip: Keaau, Hawaii 0
Comments on Missions, Vision, and Values: The mission, vision & values have been generated. Opportunities to comment were offered. However, only the tech competent voices have been heard.
Comments on Goal and Objectives: Who makes a good steward? Who does the steward serve? Astronomy and physics are the foundation of all western science. In the quest for knowledge and "truth", we often become deaf and blind to other points of view. I don't think "balance" is easily obtained.
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities: X
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I have had the privilege to serve on Kahu Ku Mauna Council but left because I felt that its voice had been lost. I was sad to see that the time spent was basically to fulfill recommendations/requirements of a management plan given to the University of Hawaii to address shortcomings. I feel these plans may be destined for similar results. The names and active entities may change, but our world views are what needs to be adjusted.
Comments on Missions, Vision, and Values: While I appreciate the intention of UH to do well by the Native Hawaiian community via a "balanced" and "shared" vision for Maunakea, the fact that the university is steadfastly moving forward with TMT construction on 'Ka Mauna a Wākea' leaves these words hollow. The leadership of UH, as educators and residents of Hawai'i, know full well the disconnect between such repeatedly stated intentions of "deep listening" and the reality of the situation regarding construction of the Thirty Meter Telescope. The Native Hawaiian community has spoken clearly for 12 years on the spiritual, cultural, historical, and ecological importance of the Mauna and their strong opposition to a stadium-sized construction footprint for another telescope at their place of creation. As a Christian minister, I stand with the Native Hawaiian community out of moral and ethical obligation on what is easily understood as the righteous side of this divide between UH / TMT and the Kānaka Maoli. The mess created must be cleaned up. UH will most certainly inherit the mess that is to be if TMT is not constructed to be sure, but they risk a larger and much more painful mess by moving forward. Let us not forget who created the mess in the first place. Cleaning up your side of the aisle is necessary for UH. And it seems to me, the opportunity to move forward in pono, with kuleana, and most importantly with the Native Hawaiian community, is one that UH also has before them. What a tragic opportunity to miss. And what a powerful example of aloha for the world that would be. I will be praying that UH and its leadership decide for the latter.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 353
Date submitted: 10/27/2021
Name: Deborah Ward
Organization:
City, State, Zip: Kurtistown, HI 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies: Page 1-8
Strategy 4. Establishment of only those new facilities that “(iii) would greatly benefit from Maunakea’s unique cultural landscape or unique natural resources” is ironic. The unique cultural landscape and unique natural resources would not, by t
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: My time to complete this by October 26 is limited by family obligations on the continent.
Submittal Number: 354
Date submitted: 10/27/2021
Name: Peter Matlock
Organization: Self
City, State, Zip: Keauhou, HI 0

Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:

General/Other comments: Dear UH,
I support your efforts to ensure the TMT is built, and that it is done so with extra attention to environmental care and cultural respect. It is unfortunate we are at a point where building the TMT and respect/support of traditional Hawaiian culture are seen as mutually exclusive. UH is showing the way to building TMT and doing so in a way that supports current and future generations in Hawaii, including opportunities to bring greater resources to expand support for traditional culture. Plus, TMT will show our collective commitment to seeking knowledge and expanding education, to create a better future for Hawaii's children. Conversely, a demise of TMT--and of Astronomy in general--would send a message to the world that Hawaii is anti-science, making it more difficult to develop and attract the talent needed to prepare future generations to thrive. Equipping students to be effective in the current world, while adapting the wisdom of traditional culture to our current lives, can ensure both respect for traditional culture and ability to succeed in the 21st Century. Thank you.
Submittal Number: 355
Date submitted: 10/27/2021
Name: Aya Yagi
Organization: 
City, State, Zip:  
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments:  Over half a million Kanaka Maoli, Hawaiʻi Residents, and world citizens have provided testimony at countless hearings, signed positions and petitions, opposing the building of the TMT on the summits of Mauna Kea.
Comments on Missions, Vision, and Values: The indigenous people of Hawai‘i have been protesting this project for years, speaking loudly and clearly that they do not want TMT built. You talk about stewardship, but stewardship isn’t yours to have on stolen land. Listen to Hawaiians and respect their rights to self-determination, they are saying no to TMT on Mauna Kea.
Comments on Missions, Vision, and Values: Mauna a Wākea is the most sacred mountain in Native Hawaiian epistemology: a site of tremendous power, a source of healing, prayer, and clarity. It embodies the zenith of kānaka maoli’s ancestral ties to creation, a link between the past, present, and future. Despite this fact, our community has historically and continually not been consulted thoroughly and sincerely within development on the mountain. It is not enough to "appreciate" our voices, we have to be listened to. The voices of the kānaka maoli are clear: we oppose the building of the TMT on Mauna a Wakea. Through demonstrations, through petitions, through activism and advocacy for the past 12 years and beyond we have fought the TMT's desecration of our land. Yet our voices are still ignored, brought into "consultation" but not listened to. The decades of mismanagement that UH has demonstrated is evidence that your stewardship is inadequate, and that Mauna Kea needs to be handed back to its true stewards: the kānaka maoli.

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Submittal Number: 358
Date submitted: 10/27/2021
Name: Ashley Galacgac
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: The University of Hawai‘i is a public serving institution with the responsibility to steward this sacred ʻāina. Native Hawaiians do not consent to the building of TMT on Mauna Kea. To uphold the responsibility UH and all living here in Hawai‘i has, we must end the desecration of Mauna Kea.
Stewardship should be led by those families who have genealogical ties to Maunakea who have been there for generations. Many educators, cultural practitioners, kūpuna, and community have demonstrated the learning, healing, and thriving that can happen as protectors stood with Kapu Aloha to stop TMT. Maunakea may continue to be a place of healing and TMT is not part of that vision.
Submittal Number: 359
Date submitted: 10/27/2021
Name: Raymond Keaulana
Organization:
City, State, Zip: ,
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: I stand against all development on the most sacred place, Mauna a Wākea. I oppose the TMT now and forever.
Submittal Number: 360
Date submitted: 10/27/2021
Name: David Rubin
Organization: UH Mānoa
City, State, Zip: , 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: In the past couple of decades, the UH admin has done a good of management and I support their future efforts.
Submittal Number: 361
Date submitted: 10/27/2021
Name: Wainani Paikai
Organization: State Farm Insurance
City, State, Zip: Brooklyn, NY 0

Comments on Missions, Vision, and Values: For decades, Kanaka Maoli have been advocating for rightful stewarding of the land including the protection of Mauna Kea. Over the past 12 years, the indigenous people of Hawai'i have been recognized internationally through mass demonstrations locally and internationally in opposition to building the Thirty Meter Telescope (TMT) on Mauna Kea. Thousands have occupied Mauna Kea and marched to stop the desecration planned for our Mauna.

Comments on Goal and Objectives:

Comments on Strategies: Using TMT to diversify the economy is using another settler based tactic that will inevitably benefit and perpetuate a system of oppression and colonization.

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Hi, my name is Dr. Rob Whiteley. I am a former Institute for Astronomy graduate student (PhD in 2000), and I spent many years in the world of academic astronomy. I've done observational work at most of the big observatories in both Hawaii and Arizona, and specialized in asteroid and comet detection and characterization. Without hesitation I can say that the work I did at the facilities on Mauna Kea was the best work of my career; the conditions on Mauna Kea were one of the reasons why. I won't belabor the point that I'm sure many other people are making in this forum. I will simply say that no observatory in the world compares to Mauna Kea, whether Cerro Paranal, La Palma, Mt. Graham, Kitt Peak or any other place you can think of.

Mauna Kea's value as an astronomical site has placed it at the forefront of discovery for decades. It would be impossible for me list all of the firsts, important discoveries, and eye-opening reveals enabled by research done on its summit. Mauna Kea is where the first Kuiper Belt Objects were discovered. Much of the early work characterizing Earth-threatening asteroids was done on Mauna Kea as well. Modern infrared astronomy was born on Mauna Kea, as well as the technology that supported it. Ground-breaking work on adaptive optics, very large aperture telescopes, and submillimeter telescopes was done at MKO. For every advancement in astronomy or astronomical technology made in the last 40 years, there is probably a Mauna Kea connection.

Over time those connections have built not just a vibrant scientific enterprise but vibrant academic and business enterprises. Astronomy brings billions of dollars to the economy of the State of Hawaii today, whether in the form of operations budgets, research and development, or Federal or Foreign government grant money. Astronomy is one of the "crown jewels" of the University of Hawaii system, and much of the growth of the UH system on Maui and the Big Island has been driven by astronomy. Because of astronomy, Hawaii also has a thriving entrepreneurial ecosystem in related fields such as remote sensing, scientific computing, and optical engineering. Thousands of high-tech, green jobs in Hawaii are directly supported or enabled by Astronomy, and by the development and use of the facilities on Mauna Kea and Haleakala.

I've not always been a fan of how the leadership of the University of Hawaii has handled the Mauna Kea question. I could also level some critiques at the State of Hawaii, particularly during the time I was a graduate student, for being tone deaf on many of the issues. But what I've seen in the last 20 years has convinced me that people have learned to listen, and have built a much better dialogue on how Mauna Kea should be managed. Today my current worry is that some very public, very misguided activism on this subject could lead to the end of astronomy on Mauna Kea. That would be an epic mistake, and a tragic failure of leadership among multiple groups.

I fully support the responsible use of, and where appropriate, the expansion of astronomical capabilities on Mauna Kea. I believe that the various interested parties should not focus so much on an arbitrary number of allowed facilities. Instead, people should consider the benefits and impacts of various projects, and ask how those projects contribute to the goals outlined in the Draft Master Plan documents. Stewardship need not be at odds with astronomy; research, education, and public outreach are not mutually exclusive. All it requires is that the interested parties be sincerely interested in listening, and applying some imagination to these problems.
Submittal Number: 363
Date submitted: 10/27/2021
Name: Raquel
Organization: 
City, State, Zip: 
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: 
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: I am opposed to the building of TMT on Mauna Kea. We need to preserve sacred spaces and listen to native voices. I do not consent to any more destruction.
Submittal Number: 364
Date submitted: 10/27/2021
Name: Carmelo Carmelo
Organization:
City, State, Zip: Bellingham, WA 0

Comments on Missions, Vision, and Values:

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Comments on Missions, Vision, and Values: The University of Hawaii mission, vision and values continue to contribute to the genocide of the Hawaiian people by destroying and alienating them from critical spiritual source. It is so obvious by the language you use, management. It clearly shows that you have no concern or understanding of the foundation of Hawaiian exist, kinship. Kinship with their natural world, their universe. There is clearly a conflict or lack of understanding of their relational values. Malama should be used in place of management. Management puts the hierarchy of elders askew. Management is about man, Malama is mans attempt to try and do the Pono thing to live in balance knowing the source doesn’t need man to thrive. In fact it would be better off without man and his irresponsibility and greed.

I just lost my 15 year old granddaughter because she felt she didn’t belong. He death will not fade into the darkness, unheard. She has been one of the many protectors of Mauna Kea. Enduring the stress and hardships to protect and stop the further destruction of their critical spiritual source. What you are doing and further proposing contributes to their generational trauma that make Hawaiians feel that “ they don’t belong. “ They don’t belong in their own homelands. Is that your Mission, your Vision, and your Values? Your whole purpose is to look into outer space, I think you need to look into your inner space. The discoveries you make there would better serve you, your families and mankind. Education is so hell bent on promoting STEM, but fail to develop a strong healthy root. Look at our Honua, she is jerking us to the ground and saying, “wake up. “ You technology and so called intelligence is killing everyone and I mean everyone from a Hawaiian prospective.

When my granddaughter wrote she didn’t feel she belonged, I know it is because of the generational trauma caused by Missions, Vision, and Values like yours. Genocide continues and will continue until people and institutions like yourselves begin investing in inner space exploration. Stop the insanity!

Comments on Goal and Objectives:

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR:

Comments on education, research, and astronomy facilities in the MKSR:

Comments on access management facilities:

Comments on proposal review process:

Comments on design guidelines:

General/Other comments:
Comments on Missions, Vision, and Values: The mission is absent significant representation of kia‘i and members of the community who have vehemently opposed the UH’s continued management of the mauna and the building of the TMT. We object to the arrogance that is represented in this section and the unabashed settler-colonial support for institutional forms of domination that is part of the white supremacist ideology hidden in cultural tokenism and unethical scientific approaches to the mauna.

Comments on Goal and Objectives: The University has completely ignored the questions: what authority does the University have to plan for the use of Mauna Kea when the lease for the mauna is due to expire? And, What right does the university believe it has to assume control and management?

Comments on Strategies: The strategies ignore the core understanding of the mauna and core cultural integrity outlined by the kia‘i. In short, the strategies are a biased, prejudicial and discriminatory set of actions that promote a manifest destiny approach laden with institutional forms of domination that is part of the white supremacist ideology hidden in cultural tokenism and unethical scientific approaches to the mauna.

Comments on Halepōhaku facilities: No authority or consent was given here. The approach is in direct conflict with the issues raised since the 1960s. Any attempt to promote some minuscule form of "preservation and protection" that ignores the full breadth of the mauna and its collective importance and value to kanaka maoli is a disgusting self-promoting use of false narratives to engender divisions in the community and undermines the cultural and political survival of the kanaka maoli people.

Comments on management and stewardship facilities in the MKSR: Mauna-a-Wakea has been severely mismanaged since the early 1960s. In the most recent iteration of the university's management planning, no real changes to the construction or the care for the cultural integrity of the whole mauna has been meaningfully done.

Comments on education, research, and astronomy facilities in the MKSR: The claims of research are fraudulent. Nothing speaks directly to the ability of the kanaka maoli to have a direct role and decision making power in the kind of research or power and focus of the research. Instead, like the other sections, kanaka maoli are ignored.

Comments on access management facilities: X

Comments on proposal review process: The process is improper and does not provide adequate time for the community to respond. There is a serious lack of due process in this process and the community will suffer for this failure to adequately connect with the community. The reality of the process is that it is only for the benefit of the university.

Comments on design guidelines:

General/Other comments: Overall, this plan is incomplete and misleading. The issues concerning the TMT are inaccurate and should be stricken. The sections relating to Hawaiian values and culture are tokenized version of a settler-colonial ideology that do not properly represent the concerns of the kanaka maoli community.
Submittal Number: 367
Date submitted: 10/27/2021
Name: Caitlin P
Organization: 
City, State, Zip: ,
Comments on Missions, Vision, and Values: 
Comments on Goal and Objectives: 
Comments on Strategies: 
Comments on Halepōhaku facilities: 
Comments on management and stewardship facilities in the MKSR: The University of Hawai‘i has a long history of mismanagement of Mauna Kea and disrespect towards Native Hawaiian people and land. There have been almost 500,000 signatures against the building of the TMT, and countless testimonies against the abuse of Ma
Comments on education, research, and astronomy facilities in the MKSR: 
Comments on access management facilities: 
Comments on proposal review process: 
Comments on design guidelines: 
General/Other comments: 
Submittal Number: 368
Date submitted: 10/27/2021
Name: Laakea Rabes
Organization: 
City, State, Zip: 

Comments on Missions, Vision, and Values: The plan presented pretends to connect and position so called stewards from UH and the rest of the Astronomy community interested in TMT's construction as those who care deeply about Maunakea. It disingenuously paints a picture of understanding the pilina or relationship between 'Āina and Kānaka by utilizing important traditional concepts and knowledge such as the Kumulipo then proceeding to identify Maunakea as a resource and commodity ripe for economic gain. The plan is a lengthy contradiction. It is a backhanded attempt to convince those opposed to the construction of the TMT that you care for them or Maunakea. Additionally, the idea that technology is monumentally instrumental in scientific exploration is ironically based on a narrow world view. Native Hawaiians have long been able to gain deep understanding for the world around us along with all its cosmic phenomena. If you need proof look no further than the Kumulipo that the plan was so eager to refer to. In closing, this comment is meant to show dissatisfaction with the continued attempts to build upon Maunakea and maintain the image of a competent steward. TMT should not be built and Maunakea's management and stewardship should be turned over to the indigenous people of Hawai‘i.

Comments on Goal and Objectives: The plan presented pretends to connect and position so called stewards from UH and the rest of the Astronomy community interested in TMT's construction as those who care deeply about Maunakea. It disingenuously paints a picture of understanding the pilina

Comments on Strategies:

Comments on Halepōhaku facilities:

Comments on management and stewardship facilities in the MKSR: The plan presented pretends to connect and position so called stewards from UH and the rest of the Astronomy community interested in TMT's construction as those who care deeply about Maunakea. It disingenuously paints a picture of understanding the pilina

Comments on education, research, and astronomy facilities in the MKSR: The plan presented pretends to connect and position so called stewards from UH and the rest of the Astronomy community interested in TMT's construction as those who care deeply about Maunakea. It disingenuously paints a picture of understanding the pilina

Comments on access management facilities: X

Comments on proposal review process: 

Comments on design guidelines:

General/Other comments: 

Submittal Number: 369
Date submitted: 10/27/2021
Name: ANTHONY LENCHANKO
Organization: POHAKEA KAI LLC
City, State, Zip: WAIANAE, HAWAII 0
Comments on Missions, Vision, and Values:
Comments on Goal and Objectives:
Comments on Strategies:
Comments on Halepōhaku facilities:
Comments on management and stewardship facilities in the MKSR:
Comments on education, research, and astronomy facilities in the MKSR:
Comments on access management facilities:
Comments on proposal review process:
Comments on design guidelines:
General/Other comments: Opposed to new astronomical facility (i.e. TMT) at Astronomy site 13.
Balanced goals should reconsider "unfair compensation" strategies previously applied to native Hawaiians (i.e. State of Hawaii Constitution).
10 INPUT RECEIVED VIA U.S. MAIL

Submissions were received from the following and are reproduced below:

- State of Hawai‘i Department of Health (HDOH), Solid and Hazardous Waste Branch
- HDOH, Indoor and Radiological Health Branch
- County of Hawai‘i Police Department
- National Science Foundation
- Cheryl Burghardt and Dee Green
- Water Protector Legal Collective
- Anonymous
- Laulani Teale, Ho‘opae Pono Peace Project
- Liko-o-kalani Martin
- Penny Levin
Solid and Hazardous Waste Branch Standard Comments

Solid and Hazardous Waste Branch
Standard Comments
November 26, 2018

The Solid and Hazardous Waste Branch administers programs in the areas of:
1) Management of hazardous waste;
2) Management of solid waste; and
3) Regulation of underground storage tanks.

Our general comments on projects are below. For further information about these programs, please contact the Solid and Hazardous Waste Branch at (808) 586-4226. All chapters of the Hawaii Revised Statutes (HRS) are at https://www.capitol.hawaii.gov/hrscurrent/.

Hazardous Waste Program

- The state regulations for hazardous waste and used oil are in chapters 11-260.1 to 11-279.1, Hawaii Administrative Rules (HAR) [http://health.hawaii.gov/shwb/hwrules/]. These rules apply to the identification, handling, transportation, storage and disposal of regulated hazardous waste and used oil. Generators, transporters and treatment, storage, and disposal facilities of hazardous waste and used oil must adhere to these requirements. Violations are subject to penalties under chapter 342J. HRS.

Solid Waste Section


- The purpose of the rules is to establish minimum standards governing the design, construction, installation, operation, and maintenance of solid waste disposal, recycling, reclamation and transfer systems.

- All facilities that accept solid wastes are required to obtain a solid waste management permit from the SWS. Examples of the types of facilities governed by these regulations include landfills, transfer stations and convenience centers, recycling facilities, composting facilities, and salvage facilities. Medical waste, infectious waste, and foreign waste treatment facilities are also included.

- Generators of solid waste are required to ensure that their wastes are properly delivered to permitted solid waste management facilities. Managers of construction and demolition projects should require their waste contractors to submit disposal receipts and invoices to ensure proper disposal of wastes.

For further information about these programs, please contact the Solid and Hazardous Waste Branch at (808) 586-4226.
Solid and Hazardous Waste Branch Standard Comments

- Chapter 342G, HRS, encourages the reduction of waste generation, reuse of discarded materials, and the recycling of solid waste. The project developer is highly encouraged to develop a solid waste management plan to ensure proper handling of wastes and divert recyclables from being landfilled. Ideally, the plan would seek to maximize waste diversion and minimize disposal. Such plans should include designated areas to promote the collection of reusable and recyclable materials.

Office of Solid Waste Management

- The Office of Solid Waste Management (OSWM) administers statewide integrated solid waste management planning activities, which apply to the counties, as well as various recycling programs, e.g. the Glass Advance Disposal Fee (ADF) and Deposit Beverage Container (DBC) Programs. Management of the DBC Program is conducted pursuant to chapter 342G, HRS, which contains compliance and enforcement provisions, and chapter 11-232, HAR, "Deposit Beverage Recycling" [http://health.hawaii.gov/h5/rules-regulations-additional-links/]. OSWM is also responsible for limited enforcement and compliance of solid waste management facilities that operate primarily as certified DBC redemption centers pursuant to chapter 342H, HRS, and chapter 11-58.1, HAR, "Solid Waste Management Control" [http://health.hawaii.gov/shwb/solid-waste/]. Authority for the integrated solid waste management planning and ADF programs is contained in chapter 342G, HRS.

- Glass Advance Disposal Fee Program: Businesses that import glass containers into Hawaii are required to register with the Department of Health and pay a 1.5 cent per container fee. Fee revenue is distributed to the counties for the operation of glass recycling programs.

- Deposit Beverage Container Program: Business that manufacture or import deposit beverage containers into Hawaii are required to register with the Department of Health and pay the five-cent deposit and one cent container fee on each deposit container. Deposits and fees are deposited into a special fund and are used to reimburse DBC redemption center refunds paid to consumers; and to pay handling fees to redemption/recycling companies to process and recycle collected deposit beverage containers; and to pay program administrative costs.

- The Department of Health reimburses and pays an associated handling fee for the redemption of deposit beverage containers (DBC). These transactions are conducted only with certified redemption centers. Certification requires obtaining a solid waste management permit from the SWS (which addresses environmental issues) and a certification from the DBC program (which standardizes the redemption process).

- Chapter 342G, HRS, encourages the reduction of waste generation, reuse of discarded materials, and the recycling of solid waste. Businesses, property managers and developers, and government entities are highly encouraged to develop solid waste management plans to ensure proper handling of wastes and divert recyclables from being landfilled. The project developer is highly encouraged to develop a solid waste management plan to ensure proper handling of wastes and divert recyclables from being landfilled. Ideally, the plan would seek to

For further information about these programs, please contact the Solid and Hazardous Waste Branch at (808) 586-4226.
Solid and Hazardous Waste Branch Standard Comments

maximize waste diversion and minimize disposal. Such plans should include designated areas to promote the collection of reusable and recyclable materials.

• Solid waste management plans seek to maximize waste diversion and minimize disposal. Such plans should include designated areas to promote the collection of reusable and recyclable materials.

Underground Storage Tank Program

• The state’s underground storage tank (UST) regulations, found in chapter 11-280.1, HAR [http://health.hawaii.gov/shwb/underground-storage-tanks/], include specific requirements that UST owners and operators must meet when installing, operating, and permanently closing their UST systems and addressing releases from USTs. Violations are subject to penalties under chapter 11-280.1, HAR, and chapter 342L, HRS.

• A permit is required prior to the installation and operation of a UST. Any new UST system that will be installed must have secondary containment with interstitial monitoring. Refer to subchapters 2, 3, 4, and 12 of chapter 11-280.1, HAR. The installation permit expires 1 year from the date of issuance. The operation permit expires 5 years from the date of issuance.

• §11-280.1-50, HAR, requires owners and operators of USTs or tank systems to notify DOH within twenty-four (24) hours and follow the procedures in §11-280.1-52, HAR, if any of the following occur, with specific exceptions found in the rules:
  1) The discovery by any person of evidence of regulated substances which may have been released at the UST site or in the surrounding area (such as the presence of free product or vapors in soils, basements, sewer and utility lines, or nearby surface water);
  2) Unusual UST system operating conditions observed or experienced (such as the erratic behavior of product dispensing equipment, the sudden loss of product from the UST, or an unexplained presence of water in the tank); or
  3) Monitoring results from a release detection method required under §§11-280.1-41 or 11-280.1-42 indicate a release may have occurred.


For further information about these programs, please contact the Solid and Hazardous Waste Branch at (808) 586-4226.
September 23, 2021

Gregory C. Chun, Ph.D.
Executive Director
UH Hilo Center for Maunakea Stewardship
Government Relations Office
Administrative Services Building, I
2442 Campus Road
Honolulu, HI 96822

Dear Dr. Chun:

Thank you for your submittal requesting comments to the Public Draft Master Plan for the University of Hawaii Maunakea Lands; I O I Kaleo.

Project activities shall comply with the following Administrative Rules of the Department of Health:

- Chapter 11-39 Air Conditioning & Ventilating
- Chapter 11-41 Lead-based Paint Activities
- Chapter 11-45 Radiation Control
- Chapter 11-46 Community Noise Control
- Chapter 11-501 Asbestos Requirements
- Chapter 11-504 Asbestos Abatement Certification Program

Should you have any questions, please contact me at (808) 586-4700.

Sincerely,

[Signature]

Thomass G. Lileakis
Acting Program Manager
Indoor and Radiological Health Branch
October 8, 2021

Mr. Gregory Chun, Ph.D.
Executive Director
UH Hilo Center for Maunakea Stewardship
University of Hawaii, Government Relations Office
Administrative Services Building 1, Room 101
2442 Campus Road
Honolulu, Hawaii 96822

Dear Mr. Chun:

Thank you for allowing us to review and provide comments on the public draft of the Master Plan for the University of Hawaiʻi Maunakea Lands: E O I Ka Leo.

Your collaborative effort in seeking community input, to include consideration on public safety, is much appreciated. Upon review of the posted documents, our staff does not anticipate any significant impact to traffic and/or public safety concerns at this time.

Should you have any questions, feel free to please contact Captain Regino Saludares of our Administrative Services Division at (808) 961-2265 or Regino.Saludares@hawaiicounty.gov.

Sincerely,

Kenneth Bugado Jr.
for
PAUL K. FERREIRA
POLICE CHIEF

21HQ0934

"Hawai'i County is an Equal Opportunity Provider and Employer"
The National Science Foundation (NSF) appreciates the opportunity to provide comments on the draft Master Plan prepared by the University of Hawai‘i (UH). As the owner of two major astronomical facilities on Maunakea (the Gemini North Observatory and the Maunakea Very Long Baseline Array (VLBA) antenna), both of which are operated on our behalf by non-profit science management organizations and are the subject of sub-leases with the University of Hawai‘i, NSF has a strong interest in the effective management of the Science Reserve on the Maunakea summit. Within that context, NSF recognizes the importance of protecting Maunakea’s environmental resources, respecting Native Hawaiian culture and the interests of the Native Hawaiian community, and preserving NSF’s astronomy assets on behalf of the US scientific community and our funding partners. Therefore, NSF offers the following comments on UH’s draft Master Plan:

1. NSF recognizes the need for the Native Hawaiian community to have a voice in the management of Maunakea. While there are a few references to UH’s plans to involve the Native Hawaiian community in future activities, the document does not specify what that involvement entails. Moreover, the crux of the document focuses on how UH’s mission will be carried out without discussion of how positive or negative impacts to the Native Hawaiian community will be addressed. NSF believes the document would benefit from a meaningful discussion within the final Master Plan of what these impacts are and how future governance will meet the needs and interests of the Native Hawaiian community.

2. The draft Master Plan includes several very specific guidelines that appear to be requirements (such as dome height and color restrictions, limitations on the number of telescopes within the Astronomy Precinct, locations for the siting of telescopes, etc.) without an accompanying discussion of environmental or cultural resource impacts substantiating those requirements. It is, therefore, very difficult for NSF to evaluate or determine the appropriateness of these requirements.

3. NSF notes that there does not seem to be a specific reference in the draft Master Plan to the 10% observing time that observatories on Maunakea provide to UH as a condition of their subleases. This observing time translates to millions of dollars in direct benefits to UH, and this contribution should be acknowledged, discussed, and evaluated to determine whether it should be redirected (in part or in whole) to provide a more equitable distribution of the benefits to the community, especially to Native Hawaiians.
4. NSF strongly opposes all references to the decommissioning of the VLBA antenna on Maunakea in the draft Master Plan (see, e.g., page 4-5, and 4-14: “It is known that VLBA, on Astronomy Site 14, will be decommissioned prior to the end of 2033.”). On numerous occasions, NSF has communicated to UH, both formally and informally, its position that the VLBA antenna on Maunakea should not be decommissioned because it is a valuable astronomy asset for the nation, and, by virtue of its use in maintaining the Celestial Reference Frame and measuring Earth Orientation Parameters as a contributing system for the International VLBI Service for Geodesy and Astrometry, it plays a vital role in maintaining the integrity of Global Navigation Satellite Systems, including the Global Positioning System. Additionally, this VLBA station is afforded special regulatory protections for portions of the radio spectrum at its present location (i.e., footnotes 113, 131, 161 of the United States Table of Frequency Allocations; 47 C.F.R. § 2.106).

5. The process for decommissioning of facilities set forth in Appendix D to UH’s draft Master Plan lacks sufficient detail to provide meaningful review and comment. NSF does maintain that any decommissioning process should be determined after considering input from the science community and led by the Master Lessee. NSF also notes that the Master Lessee should be cognizant of any potential conflicts of interest it may have when making determinations about which facilities to decommission.

Thank you, again, for the opportunity to provide comments on the draft Master Plan. We look forward to seeing how NSF’s comments are incorporated into the final Master Plan. If further clarity on our comments is needed, please feel free to reach out to David Boboltz, Ph.D. at dboboltz@nsf.gov.

Sincerely,

[Signature]

Linnea Avallone, Ph.D.
Chief Officer for Research Facilities
Office of the Director

[Signature]

Sean L. Jones, Ph.D.
Assistant Director
Mathematical & Physical Sciences
October 19, 2021

IN RESPONSE TO THE UH MASTER PLAN FOR MAUNAKEA.

We are **OPPOSED** to the Draft Maunakea UH Master Plan *in its entirety*.

It's interesting that you chose the words E Ō I KA LEO (LISTEN TO THE VOICE) as your title. It is not a very suitable title since through the years no actual “listening” has been done by the University of Hawai‘i about protecting Mauna Kea as the most sacred site in Hawai‘i.

In your Forward, you link Mauna Kea as the origin to early Hawaiians as the first-born island to modern astronomy and a window to the origins of the universe. These two ideals could not be more different. The “only” spot or portal on earth where an individual can stand and connect to their ancestors or receive ancestral knowledge is entirely separate from a manmade device that could be absolutely anywhere including outside the earth's atmosphere to “view” the universe. Thus, the entire premise of your title and ultimately your perspective are quite skewed.

You write of “astronomy on Mauna Kea as an important element of the island’s future economic and educational base”. However, expenses linked to mismanagement, lack of oversight, and poor decisions have caused UH and ultimately the State of Hawai‘i to spend millions of taxpayer dollars to fight lawsuits, direct funds unnecessarily to pay for future decommissioning of telescopes, etc., etc. Education (and particularly early education) suffers the greatest loss of funding when States have these unnecessary expenses. This of course is also a catalyst for poor fiscal responsibility. It is not only short-sighted but dangerous to believe that astronomy on Mauna Kea is a necessary means to economic stability in Hawai‘i.

Mauna Kea is indeed a “unique source of learning”. The natural and unique ecosystems including rare and endangered species is the ultimate learning opportunity. UH has unfortunately not protected these areas and has aided in the population decline and the potential future demise of the Palila (although UH has tried to transfer the blame on feral animals). The facilities at Halepōhaku on Mauna Kea where the Palila once thrived have caused irreparable harm. While any disturbances and developments at Halepōhaku or the Mid-Level facility areas should be avoided to protect the federally designated critical habitat, UH continues to expect to build and develop these areas. Most recently, a new parking area was made where Māmame trees should have been planted instead. And UH also has the intent of putting a teaching telescope there. This once again has proven UH to not be a good steward of the land nor protector of nature, endangered species and sensitive ecosystems.

Under “UH’S VISION FOR MAUNAKEA” it states, UH recognizes that it must protect the area’s various values including “culturally significant landscape and a recognized historic district with many contributing historic properties” and “rare subalpine and alpine ecosystems”. However,
cumulative impacts upon Mauna Kea's cultural, archaeological, historic, and natural resources have been substantial, significant and adverse under UH's management and have been well documented as such. So, why would anyone believe this statement? UH continues to send out a smoke screen filled with deception. Including the "CORE VALUES ASSOCIATED WITH MAUNAKEA" all of which have not been followed to date.

1.4.1 RESPONSIBLY STEWARD MAUNAKEA FOR PRESENT AND FUTURE GENERATIONS

UH:

1. Embraces its responsibilities to Native Hawaiians, respecting their religious and cultural practices;
The TMT project proposes to be built in an undeveloped area amongst the hundreds of the documented and undocumented ahu (shrines) and cultural sites. Kukahau'ula as one example, was determined a historic (district) by SHPD owing its association with legendary figures and ongoing Native Hawaiian cultural practices, however, 1100 feet of the 3400 ft long Access Way that would serve the proposed TMT would cross Kukahau'ula. In addition to hundreds of find spots and shrines in the summit region, it has been referred to by archaeologists with DLNR-SHPD as a "ritual landscape" that UH has shown no care in wanting to protect.

2. Dedicates itself to the protection of the landscape and the flora and fauna that have evolved in its isolated ecosystems;
Time and time again individuals have noted their concerns about the many pollutants such as mercury and other waste products that come with the use and maintenance of the telescopes on Mauna Kea. The fact that adequate studies have not been done on the impacts of those pollutants on the groundwater and native flora and fauna is of great concern and has never been addressed by UH.

3. Dedicates itself to the pursuit of the many non-astronomy research and educational activities for which Maunakea is especially well-suited; and
These areas should be the main focus. Those activities which do not desecrate sacred lands.

4. Will limit astronomical research facilities and projects to only those for which Maunakea is particularly well-suited.
Like many things UH does, the wording here is a smoke screen and not well defined.

As for the objectives:

- Guide human activities on the mountain in a way that minimizes their adverse effects and is sustainable.

Once again, UH has not been a good steward of the lands of Mauna Kea themselves. Therefore, it remains questionable whether they can accomplish this objective since their standard of measuring "adverse effects" is questionable.
• Protect, maintain, and restore the cultural landscape and natural resources by implementing the CMP management actions.

The OMKM has failed to properly consult with Native Hawaiian cultural practitioners to develop and implement CMP Cultural Resources policies.

• Affirm and protect Maunakea as a wahi pana and wao akua.

Dr. Kahakalau articulated in the TMT contested case that “the entire mountain, as a first born, has a unique, special status for culturally-connected Hawaiians and exudes mana, Mauna Kea’s summit, based on what I was taught, as the highest peak not just in Hawai‘i but the entire Pacific, is also clearly a Wao Akua. A Wao Akua, versus a Wao Kanaka, is reserved for deities and spirits and should only be accessed for specific, always and only spiritual practices, involving special protocols.

It is clear that UH has not protected nor affirmed Mauna Kea as a Wao Akua. Once again, they are using words that are not associated with their actions thus far.

• Provide educational and other programs to ensure public activities are conducted in a manner that respects Native Hawaiian practices, does not unduly impact the environment, protects and sustains resources, and maintains human health and safety.

UH is using words to disguise their intentions. Notice that “private activities” nor “corporate activities” are listed here. So one can make the assumption that they only want to “do what’s right” if the “public” is involved. Who is holding the telescope partners, potential construction companies, tour operators etc., accountable?

• Build relationships between the mauna, its special caretakers, and the broader community.

Clearly UH has failed here in the past, and there’s no comprehensive plan listed as to what that will entail or look like as an effort from UH.

• Limit permitted commercial activities to those which support the stewardship of Maunakea’s resources.

This appears to be just another “unclear” statement that UH wishes to remain vague so they can interpret and change “at will”.

1.4.2 MAINTAIN THE UNIVERSITY’S & MAUNAKEA OBSERVATORIES’ STATUS AS WORLD LEADERS IN ASTRONOMY

The best astronomical viewing conditions are obviously high altitude, low temperature, continuous darkness, and a stable atmosphere free of dust and moisture. These conditions are obviously more perfect in outer space than they are on earth. UH can certainly maintain its status as a world leader in astronomy by supporting non-land based telescopes and a world class teaching and observational facility that is “not” on the top of Mauna Kea.
This would also allow UH to be a true leader in the world. One who puts native people and land, endangered species and native flora and fauna, above all else. A genuine leader in the ultimate land conservation effort for future generations. Putting people before profit, preserving habitat for wildlife, maintaining native ecosystems and acknowledging, truly acknowledging Mauna Kea’s natural and cultural resources as well as Native Hawaiian traditional and customary practices and rights for all time by not allowing any more telescopes atop the mountain. **This would be the most responsible stewardship of Mauna Kea for present and future generations.**

*UH will continue supporting the vision of a knowledge-based economy*

Hawai‘i’s economic future should not depend on a knowledge based economy. Economic success cannot be guaranteed by jumping on the bandwagon of technology or scientific ideology. Monsanto has been a perfect example in Hawai‘i of why that can be a dangerous road to follow. Ensuring that inequality does not increase into the future is a very important element and measurement of economic success.

**1.4.3 Diversify Educational Pursuits and Expand Research Opportunities**

While the concept of UH working to strengthen its support of research and educational programs in indigenous, natural, and social sciences is a positive pursuit, it should be combined with an effort of sustainability. UH should strive to meet the needs of students without compromising land, ecosystems, traditional and customary practices and rights, social and educational equity, and the ability of future generations to know the natural and scenic beauty of Mauna Kea.

**1.4.4 Seek Balance and Mutually Beneficial Relationships Among Mauna Kea’s Stakeholders**

While UH constantly professes to seek a mutually respectful and beneficial relationship with Mauna Kea “stakeholders”, its actions show otherwise. UH’s ineffective management and the unlawful actions of its own employees and individuals under their jurisdiction have continuously resulted in adverse impacts upon Mauna Kea’s natural and cultural resources. Native Hawaiian traditional and customary practices and rights have also been negatively impacted. They consistently fail to properly consult with Native Hawaiian cultural practitioners and have allowed desecration and dismantling of cultural sites on Mauna Kea. This has shown their lack of concern for the health and safety, proper stewardship, and preservation of resources. Actions matter more than words here.

**1.5 Strategies**

10. **Facilitate the development of a new astronomical facility on Astronomy Site 13**

Site 13 is a roughly 5-acre area at the end of a four-wheel drive road at an elevation of 13,150 feet on the Northern Plateau of Mauna Kea where there are no current developments.

According to Kealoha Pisciotta’s Written Direct Testimony in the contested case, the viewplane is in “direct line of sight of Maui and the NW plane which is used for ke all ao (solstice and
equinox) ceremonies. There are also lines that represent the relationship between Mauna Kea and Poli’ahu Heiau on Kaua‘i, Ahu a Umi Heiau situated between the three great mountains (Hualalai, Mauna Loa and Mauna Kea) on Hawai‘i Island, the Pu‘u Kohola Heiau in Kawaihae, Hawai‘i Island, and Motu Manamana (Necker Island) of the Northwestern Hawaiian Islands which marks the great turn around of the sun during the ke ala polohiwa time. The shrines on this tiny island are related to this relationship too.”

Hāwane Rios also testified she has received ancestral knowledge through mediumship in areas on the Northern Plateau. Ms. Rios explained the significance of shrines along the Northern Plateau, their connection to one another, their alignment with the constellations and tides at certain times of the year, and that they are portals which connect to celestial bodies of the universe. In particular, the Northern Plateau is a place of learning, a celestial realm in the cosmos that is also connected to voyaging. She describes the Northern Plateau as "a very sacred space of higher learning, spiritual learning, higher consciousness."

These are just a few reasons why development on site 13 should not be a consideration if UH truly and deeply cares for Native Hawaiians and their spiritual, traditional and customary cultural practices.

• While UH states that, “Land is not a commodity but rather an esteemed elder in the Hawaiian family system”, they continue to draft plans that include desecration of Mauna Kea’s summit, the sacred piko by which Native Hawaiian connections to their ancestors and their collective knowledge are made known to them.

• It is UH’s intent that this Master Plan serve as a framework for aligning land use decisions, management actions, and educational programs in a way that strengthens everyone’s connections to this special place. However, all of the practices intrinsic to the Native Hawaiian culture and religion including the construction of shrines and leaving of offerings, scattering of cremation remains, umbilical cord deposition, pilgrimage, calendric rites, burial blessings and prayers would not be available on any area occupied by TMT or any other telescope.

• UH believes that...if Hawai‘i is to achieve its goals of building a more diverse and sustainable future for this and future generations, the path forward is through a knowledge-based economy..... grounded in science and technology.... This is a faulty presumption. As the COVID pandemic has taught us, ensuring a healthy environment, sustainability and a collective effort to provide a decent standard of living to all people is of upmost importance. Ensuring that the economy is not concentrated in an area for advancement of just a few is essential in Hawai‘i.

• You can say that you’d like to “involve community in decision-making process early and often”, but it is clear to the community that you are not listening when they say there should be no further desecration or building on the summit of Mauna Kea.

• Seeking “diverse community representation on the CMS’ volunteer advisory groups” sounds as though you are trying to eliminate the Native Hawaiian community or
marginalize their opinions and concerns about the threats to Mauna Kea. UH has failed in their stewardship of sacred Mauna Kea time and time again. It’s time for UH to be held accountable. You should not look for individuals with ideas similar to your own in order to gain support through what you call “diverse representation”.

- It is already too late to “strive to address shortcomings to build stakeholder confidence and trust.” UH lost that long ago. Now it’s time to step aside and let the community come together to truly protect Mauna Kea for future generations.
- Once again UH talks about “new facilities” being “consistent with Master Plan foundations and other criteria” instead of considering the damage those facilities will do before and during construction. UH has never been a good steward of the land and these goals are further proof that UH continues to move in the wrong direction.
- Implementing a “Comprehensive Management Plan to protect and conserve Maunakea” is something UH has never been able to do. For over five decades UH has failed to follow the appropriate procedures for adopting and implementing administrative rules for those lands and resources. And also during those years, staff and personnel of the OMKM have failed to follow existing rules and protocols as outlined the CMP.
- While UH states they would like to “manage access in an adaptive manner that protects and conserves resources”, in reality, UH’s ineffective management and unlawful actions of its own employees and others under their authority have resulted in adverse impacts upon Mauna Kea’s natural and cultural resources as well as Native Hawaiian traditional and customary practices and rights.
- UH has already proven they are not capable of working with the Native Hawaiian community to reduce negative impacts on Mauna Kea. Personnel directly under the supervision or oversight of the OMKM Director have desecrated and dismantled cultural sites, desecrated and bulldozed a cultural site along the access road leading to the summit of Mauna Kea. In addition, UH continues to list the future adverse impacts they will carry out on Mauna Kea’s natural and cultural resources in this Draft Master Plan.
- Decommissioning astronomy facilities to ensure fewer are operating by end of 2033 is something UH has been tasked with for years but has never accomplished. Once again you are listing UH failures as a future plan again and again.
- There are no “new agreements with observatories that include community benefits”. UH would like to have people believe that the observatories are “for them” and that the community somehow benefits from the desecration of Mauna Kea. The ridiculousness of UH’s belief is quite overwhelming.
- UH continues to believe that development of Site 13 is in everyone’s best interest. But time and time again Native Hawaiians must remind you of the sacredness of the summit and the northern plateau. There should be no new facilities on site 13, a pristine and undeveloped area on the summit.

“Mauna Kea, the highest mountain peak in the Hawaiian Islands, is of profound importance in Hawaiian culture. The summit region is sacred to Native Hawaiians, and because of its spiritual qualities, traditional and customary cultural practices are exercised throughout the summit area.” This statement regarding Mauna Kea’s cultural

- Repurposing Halepōhaku as a Multi-Disciplinary Field Station would mean construction in a critical habitat for the endangered Palia. No amount of “mitigation measures” could ensure their survival. Halepōhaku is an area where the Palia once thrived. UH has already caused irreparable harm to them by building in this area in the past. Any plans for this area should be stopped.

**HALEPŌHAKU (FACILITIES)**

UH continues to disregard endangered species including the Palia in its decision making and Master Plan. They are merely mentioned as a matter of fact. Grading and paving areas, reconstructing areas, building new facilities or adding to existing ones all have a significant effect. Dust and noise etc. in this area during construction will have a tremendous environmental impact. Mitigation measures alone will not suffice. A potential multi-year project will mean a number of nesting seasons for the Palia. Once gone, they may never return. Or, they may be lost forever. There is no guarantee either way. The risk is much too great for an endangered species and its potentially minimal survival rate.

It is stated that, “The DLNR, which is leading Palila recovery efforts, has asked that new disturbances and developments at Halepōhaku be avoided.” However, we already know that disturbances and developments have occurred recently including a new parking area. It is clear the UH doesn’t follow any recommendations for ensuring these areas of critical habitat remain undisturbed. Archaeological surveys should also be done in this area. UH often rushes to get things done before adequate surveys to confirm there are no historical or cultural properties, altars or remains there.

**MAUNA KEA SCIENCE RESERVE**

All potential plans for the Mauna Kea Science Reserve should be put on hold. UH’s actions over the past five decades have already resulted in substantial, significant, and adverse impacts on Mauna Kea’s summit region. We must conserve the ecological and culturally irreplaceable ecosystems on the summit and preserve this historic district for future generations of Native Hawaiians to continue their customary and traditional practices.

Mauna Kea’s summit region is sacred. Native Hawaiian traditions state that ancestral akua reside there. E. Kalani Flores stated the following in his Written Direct Testimony in the TMT contested case: “Embedded within these ahu and stones is ‘ike kupuna and ancestral knowledge along with ancestral guardians. As such, construction (of the TMT observatory) in this vicinity would sever our past, present, and future generational connections with the ‘ike kupuna and ancestral knowledge implanted at these sites. With the understanding that many of these sites serve as depositories of ancient wisdom as well as multi-dimensional portals, the massive extent of destruction proposed in this culturally sensitive landscape would also adversely impact our Native Hawaiian customary and traditional practices that are still connected to these sites.”
It is for these reasons and more that we oppose the Draft Maunakea UH Master Plan in its entirety. UH should be “listening” to those who may oppose any further development on Mauna Kea. UH has done enough damage.

Cheryl Burghardt
Dee Green
October 26, 2021

Via U.S. Mail & Online
University of Hawai‘i
Government Relations Office
Administrative Services Building 1, Room 101
2442 Campus Road
Honolulu, HI 96822

Re: Public Comment on UH Draft Master Plan, E Ō I Ka Leo (Listen to the Voice)

The Water Protector Legal Collective ("WPLC") is an Indigenous-led legal non-profit organization dedicated to providing legal support and advocacy for Indigenous peoples and Original Nations, the Earth, and climate justice movements. The WPLC submits this comment to the University of Hawaii ("UH") regarding the UH Draft Master Plan, E Ō I Ka Leo (Listen to the Voice) for land use management on Mauna Kea.

As the UH Draft Master plan acknowledges, in addition to its cultural landscape and unique ecosystems, as well as topographic and atmospheric qualities, Mauna Kea is a sacred place that is essential to Kānaka Maoli (Native Hawaiian) culture, spirituality, and ancestral knowledge. The Draft Master plan states that the UH “recognizes that Maunakea’s cultural landscape and natural resources must receive the same respect as scientific research if astronomy is to continue and that preservation, education, and research, should reinforce, rather than conflict with one another. It also recognizes that UH must continue to observe the rights of cultural practitioners and be sensitive to the unique importance and symbolism that these lands have to Native Hawaiians.”

While this renewed vision is a step in the right direction, along with a stated commitment in the Draft Master plan to decommission astronomy facilities on the mauna to no more than nine (9) total, the UH must go beyond words and diplomacy and recognize that if it to truly “E Ō I Ka Leo” (Listen to the Voice) as the name of the plan suggests, it must recognize that its
stewardship of Mauna Kea requires UH to understand that any further development, particularly in the form of building a Thirty Meter Telescope ("TMT") on the summit ("Astronomy Site 13") would constitute irreparable desecration to a sacred site.

**WPLC urges the UH to protect Mauna Kea. Specifically, WPLC notes and recommends the following:**

1) **The UH must unequivocally cease any further development of TMT.**

Strategy 10 indicates it would facilitate the development of a new astronomical facility on Astronomy Site 13 and upgrade or repurpose up to three (3) existing astronomy facilities. While the plan recognizes there is some uncertainty regarding TMT, permitted for Site 13, the uncertainty comes from potential federal review of the project by the U.S. National Science Foundation, not from a willingness to change its plans for development.

2) **The UH Draft Plan fails to present special or concrete measures on how it will include the voices of Kānaka Maoli, and is silent on ways it will provide access to the site and says nothing of the free, prior informed consent necessary from Kānaka Maoli as original peoples of Hawai‘i.**

The Draft plan states: "*From what we have heard from the community, it is clear that we have more work to do in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as we make decisions.*" This is a start, but must consider actively how it will achieve this beyond the creation of committees and public fora, as well as understanding that consultation does not amount to consent.

The UN Declaration on the Rights of Indigenous Peoples ("UNDRIP"), adopted by the United Nations General Assembly in 2007 and recognized by the U.S. State Department as having both moral and political force, recognizes, among other things, that Free, Prior and Informed Consent ("FPIC") is a pre-requisite for any activity that affects Indigenous ancestral lands, territories, or natural resources—not just mere consultation.

FPIC "recognizes Indigenous peoples’ inherent and prior rights to their lands and resources” and respects their authority to “require that third parties enter into an equal and respectful relationship with them based on the principle of informed consent. Procedurally, free, prior and informed consent requires processes that allow and support meaningful choices by Indigenous peoples about their development path.”
3) The UH Draft Plan fails to recognize that building the TMT on Mauna Kea’s summit would constitute irreparable desecration, impacting the culture, spirituality, and ancestral traditions of Kānaka Maoli amounting to cultural genocide.

Article 7(2) of the UNDRIP states: “Indigenous peoples have the collective right to live in freedom, peace and security as distinct peoples and shall not be subjected to any act of genocide or any other act of violence...” Similarly, Article 8.2 of the UNDRIP says “States shall provide effective mechanisms for prevention of, and redress for... any action which has the aim or effect of depriving them of their integrity as distinct peoples, or of their cultural values or ethnic identities [and] any action which has the aim or effect of dispossessing them of their lands, territories, or resources.”

The systematic destruction of culture that occurs with loss of access to historical, ancestral lands of cultural significance, leads to irreparable harm and in cultural genocide when distinct peoples are dispossessed of their cultural values and identities.

4) The UH can resolve past historical injustices inflicted up and experienced by Kānaka Maoli by not adding to additional cultural trauma and impact.

Although the UH states that the Draft plan “cannot resolve past historical injustices” it can certainly choose to do things differently and respect and protect Mauna Kea as a sacred and cultural site. While the argument that astrological research may be “critical to fully understanding humanity’s place in the cosmos”, the UH cannot make this argument while at the same time forgetting its own place on this Earth. We urge the UH to consider that with stewardship comes important responsibilities for maintaining Mauna Kea for future generations.

On behalf of the Water Protector Legal Collective, thank you for the opportunity to provide comments at this important juncture.

Sincerely,

Natali Segovia, Esq.
Legal Director & Staff Attorney, Water Protector Legal Collective

Mni Wiconi. Water is Life.
It seems to me that lots of people in the Islands are seeing the quality and quantity of life are not sustainable as it is now. One of the more important things that are sustainable are the observatories on Mauna Kea. Not only is this the best place in the world for these observatories, but they collectively bring hundreds of working people to the Islands. The millions of dollars because of the observatories bring to the Islands supports the island economy and the science of our world. At a time when we need to look forward and be like the early Hawaiians looking to the stars for the future of the human race. At any moment an incoming asteroid can make humans go the way of the dinosaurs. Telescopes are one way to look into our future and an early warning for asteroid impact. As our star ages, we as humans will need to find a new home if the human race is going to survive. I have seen a number young people coming to this Island for science instead leaving because there are very few sustainable jobs here. The observatories have gone out of their way to train and develop young peoples interest in space science. Human life cannot go backward and survive nature’s forward movement. TMT is a major step forward for human science and the advancement of the human race.
October 25, 2021

COMMENTS ON E O I KA LEO, DRAFT MASTER PLAN BY THE UNIVERSITY OF HAWAI‘I AT MĀNOA, 2021

Aloha Kakou,

Before I begin my comments, I would like to test your listening skills. I ask that my testimony be used in its entirety, and easily available for public viewing wherever any draft of the Mauna Kea Master Plan can be viewed. If it is not, I do not consent to the use of my name by the University in any way. Even if this testimony is reproduced and made available, as it should be, I do not consent to the use of my name in any manner outside of this comment itself. I do not consent to the use of my name as having been consulted, for example, or as having contributed mana‘o to a future draft that I may not support. In other words, to be very clear, I am asking to be heard without being used in any way as part of a consultation or approval process. This is of great importance, as refusal to be abused prevents many important and knowledgeable people, particularly genuine Indigenous cultural practitioners, from speaking in processes such as this one at all, for fear of their names, words, or other elements of themselves being used to rubber stamp a plan that they fundamentally oppose as contrary to that which is pono.

What is at stake here is not only the future of the most sacred mountain in Hawai‘i, but also peace itself. As a longtime Indigenous peacebuilder with long involvement in international human rights efforts, I profess that true peace requires true consent. Anything less than free, prior, informed, enthusiastic, clear consent, without any form of coercion, enticement, influence of systemic power, wordsmithing, narrative shifts or undue influence of any sort, whether in the case of a teenage date or a Master Plan suggesting indefinite possession and control of an Indigenous sacred mountain, is not pono. It is therefore not peace, and not true listening. It is my assessment, based upon the Master Plan draft itself, that the University of Hawai‘i has not listened to the community well thusfar at all. I am hopeful that this opportunity to practice actual
listening, with real respect for consent, will be an educational opportunity for the
University of Hawai‘i and all who are associated with E O i ka Leo.

Ho‘opae Pono Peace Project is a cultural peace resource focused on building
cooporative solutions in the context of Aloha ‘Āina, human rights, and genuine
perpetuation of Indigenous well-being and cultural continuity.

We have been involved very actively with Mauna Kea since our Peace Project became
independent in 2011. I have personally been involved with issues surrounding the
protection of Mauna Kea for over 30 years.

As a person of peace, I must speak the truth. The actions of the University of Hawai‘i
have been extremely divisive in our community. “Community Benefits Packages” have
been actively used by the University of Hawai‘i to entice fund-dependent Indigenous
organizations and individuals to oppose cultural practitioners of their own
communities whose genealogical connections require them to protect the mountain at
all costs.

The stress resulting from this conflict has taken many lives.

Peace, at this juncture, requires blunt truth. This is the only way we will be able to
heal our communities, our culture and the world we live in, which needs our collective
attention badly.

To this end, I have highlighted some of the problematic elements in this plan’s
introduction, foreword, and opening letters. It does not represent, by far, the
problems with this plan overall. I did not even begin to cover the actual problems in
the proposal, such as gates, Kia‘i restrictions, and astronomy development, all of which
are likely to cause severe conflict.

I can be contacted if there are any questions in regard to anything I have outlined here.
If there is any need to quote or otherwise use anything I have written in any manner
beyond what I have outlined above (in full, available as part of the document where the
master plan is posted, as it is my hope that all testimony is included), please request my
specific written permission via our website at capono.org.
We are always available as a peace resource for continued dialogue in the building of genuine understanding based on true respect, peace, and pono. Please contact me at any time.

Mahalo nui loa,

[Laulani signature]

Laulani Teale, MPH  
Coordinator, Ho'opae Pono Peace Project  
https://www.eapono.org
### Opening letter:

The letter opens with: **"Dear Stakeholder"**. (CMFS letter, 1)

Problem: Stakeholder theory in itself is colonial. It comes from the colonial concept of power and rights via the process of holding a wooden stake to symbolize a colonial land claim, and relies on modern property rights as its foundation.

https://link.springer.com/chapter/10.1057/9781403982292_11
https://journals.sagepub.com/doi/abs/10.1177/108602660131001

### Title:

**"E Ō i ka Leo"**: (Cover, 2)

Besides the problem of ō meaning more to resound than to listen, ka is singular. Therefore, UH is only listening to one voice, not the voices of the many. **"E Ō i ka Leo"** more accurately means “the amplification of (one) voice” than listening to many. This does not encourage participation, especially by those who already feel they are not being heard. Nā Puake Whewehe 'Olelo Hawai'i

http://whewehe.org/psdit/85/ccil-bh/dict?e=a-11000-00
---off-0hdict--00-1---0-10-0---0-0direct-10-ED--4---textp
ukuiilbert%2ctextmamaka---0-11---11-haw-Zz-1---Zz-1-h
ome-%c5%8d-00-4-1-00-0-4---0-11-00-utfZz-8-008
a=d&d=D14820

### President’s Letter, “THE UNIVERSITY OF HAWAI‘I COMMITMENT TO COLLABORATIVE MAUNAKEA STEWARDSHIP”:

UH acknowledges several things:

UH is **"humbled by the criticisms from disappointed and angry community members as well as past audits,"** (pres letter, 1/9)


Frankly, many Indigenous cultural practitioners have found this Master Plan to be condescending and offensive. They point out that UH has not addressed the essence of past audits, nor their criticisms. They assert that this reflects a lack of humility, not evidence of it. This choice of words is therefore seen as offensive by many.
| This Master Plan “focuses attention” on “the place of honor and renown that Maunakea has in the history, culture, and hearts of the Hawaiian people.” | Practitioners point out that if they understood this “place of honor and renown”, UH would not be trying to build TMT or extend their lease at all. They feel that this is adding a grave insult to a genocidal injury. |

<p>| &quot;we have more work to do in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as we make decisions.&quot; | The key words here are “as we make decisions.” It is important to remember that Mauna Kea is Crown Land, the highest level of private property that rightfully (still) belongs to the Kingdom of Hawai'i and its Head of State, to be protected and used in a sacred manner for the betterment of the Kingdom. Crown lands are unequivocally stolen lands that are being actively contested by those they were stolen from. The fact that UH presumes that the decisions are theirs to make indefinitely for this Crown land at all is not only hurtful to many, but also harmful in that it presumes that the illegal occupation of Hawai'i by the United States will continue indefinitely, and that UH will continue to align itself with and benefit from this occupation. |</p>
<table>
<thead>
<tr>
<th>UH references “the <strong>Maunakea administrative rules</strong> entitled Public and Commercial Activities on Mauna Kea Lands (HAR Chapter 20-26).” (pres letter, 1/9)</th>
<th>These are the restrictive rules passed in 2019 by the UH BOR. When first proposed, these rules were clearly and specifically directed to limiting cultural practice and kia’i access. Under legal pressure, a clause was added deferring to rights protected under Article 12, section 7 of the Hawaii State Constitution. It should be noted that Hawaii State law does not allow constitutional override by rulemaking bodies, so this was a legal necessity, not an act of goodwill. Practitioners, meanwhile, feel that §20-26-3(f) does NOT protect cultural practices, because, as in many State conflicts with the Indigenous People, there is an oppressive loophole allowing the State, in practice, to “regulate” these rights as they choose in any given instance, whether it is legal to do so or not, placing the burden on practitioners to prove their rights in court, often following arrest or confiscation/destruction of sacred shrines or objects, or tools. While these actions are often ultimately found erroneous by the Hawaii Supreme Court (if the practitioner has the extreme legal wherewithal for this fight), in practice, this means that UH/OMKM can continue to regularly block and interfere with cultural practice, forcing practitioners to battle them for the simple right to gather medicines or pray.</th>
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<tr>
<th>UH: These rules “will better <strong>equip the managers to steward Maunakea</strong> in a way that balances the impacts of astronomy on cultural practices and the environment while amplifying community, educational, and research benefits for all.” (pres letter, 1/9)</th>
<th>According to kia’i and spiritual practitioners of Mauna Kea, this a very fancy way of saying that UH intends to <strong>repress Kia’i and cultural practitioners with violent force.</strong> Which has in fact been proven in practice.</th>
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<td></td>
<td><a href="https://www.hawaiitribune-herald.com/2016/10/06/hawaiinews/you-are-not-my-church-proposed-rules-for-cultural-practices-atop-mauna-kea-draw-criticism/">https://www.hawaiitribune-herald.com/2016/10/06/hawaiinews/you-are-not-my-church-proposed-rules-for-cultural-practices-atop-mauna-kea-draw-criticism/</a></td>
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<td><a href="https://www.hawaii.edu/offices/bor/regular/testimony/201911060945/Written_Testimony___Comment_Received_2.pdf">https://www.hawaii.edu/offices/bor/regular/testimony/201911060945/Written_Testimony___Comment_Received_2.pdf</a></td>
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<td>UH: “it is clear that we have <strong>more work to do</strong> in seeking, considering, and acting on community input, particularly from the Native Hawaiian community, as we make decisions.” UH states that they have reorganized through <strong>Resolution 19-03</strong> and that this “established clearer lines of accountability and improved transparency within UH’s management operations.” (pres letter, 1/9)</td>
<td>Kia’i report that they have seen no evidence of these clearer lines of accountability and improved transparency. Indeed, we were not able to find any evidence of this. <a href="https://20/mauna-kea-internal-management-restructuring-approved/">https://20/mauna-kea-internal-management-restructuring-approved/</a> <a href="http://www.malamamaunakea.org/uploads/management/mkmb/AgendaItems/2020-07-16_CenterforMaunakeaStewardshipPlan6.18.20.pdf">http://www.malamamaunakea.org/uploads/management/mkmb/AgendaItems/2020-07-16_CenterforMaunakeaStewardshipPlan6.18.20.pdf</a> <a href="https://www.nature.com/articles/d41586-019-02304-1">https://www.nature.com/articles/d41586-019-02304-1</a> <a href="//www.bigislandvotenews.com/2020/08/">//www.bigislandvotenews.com/2020/08/</a></td>
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<td>UH states that the 2020 reorganization was a product of “more than 90 meetings with advisory groups, staff, faculty, community members, Maunakea observatories, elected representatives, government agencies, and partners.” They claim that “A concerted, but ultimately unsuccessful, effort was made to discuss the restructuring alternatives with Hawai’i Island kia’i.” (pres letter, 1-2/9-10) Later, in foreword, they discuss kia’i participation.</td>
<td>It is unclear why UH says that there was no participation, and then claim that there was. Many kia’i would not participate in these meetings because they were very pro-TMT in feel (see meeting reports), and kia’i did not want their names used in a railroad process that would only be used to prove consultation as a rubber stamp to the TMT project. They point out that there were, however, many simultaneous public venues taking place at the time, in which they were very clear on mana’o. They state that real listening should have involved mana’o that was shared outside of problematic UH-driven processes.</td>
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<td>UH state states that it is “fully committed to continuing this journey of deep listening, particularly in the Native Hawaiian community, as we make management and land use decisions.” They claim that this Master Plan draft demonstrates this commitment. (pres letter p 2/10)</td>
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<td>Again, the key phrase here is, “as we make management and land use decisions.” I am going to have to be very blunt, here, because to do otherwise would be contrary to the real healing that is needed for true peace. This frankly sounds very much like a violent narcissist gaslighting an oppressed woman. A “journey of deep listening” is meaningless if they do not hear what is being said, and consistently continue the abuse. It illustrates the precise problem with “consultation” without consent that has been established internationally as problematic under FPIC.</td>
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<th>They mention the “the Rangers who protect everyone’s safety on the mountain,” (pres letter 3/11)</th>
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<td>UH rangers are notorious for harassment of practitioners and interference with cultural practice. Common behavior has included:</td>
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- interrupting ceremonies and prayer
- arbitrarily deciding what practices are allowed or not
- removing sacred shrines, implements, offerings, etc.
- selectively disallowing established practitioners while allowing astronomy personnel to access the summit during inclement weather, regardless of vehicle considerations
UH “stands firmly behind the **August 24, 2017, Board of Regents' resolution**” and UH’s “commitment to the collaborative stewardship of Maunakea’s cultural, natural, educational and scientific resources, and ... to move forward to collaboratively build a global model of harmonious and inspirational stewardship that is befitting of Maunakea.” (here is the problematic 2017 reso:


**Oxford Languages defines “collaborate” in two ways:**

<table>
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<tr>
<th>col·lab·o·rate</th>
<th>/kaˈlæbəˌrät/ verb</th>
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<tr>
<td>1. work jointly on an activity, especially to produce or create something. &quot;he collaborated with a distinguished painter on the designs&quot;</td>
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<tr>
<td>Similar: cooperate, join (up), join forces, team up, work jointly, participate, unite,</td>
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<tr>
<td>2. cooperate traitorously with an enemy.</td>
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<tr>
<td>&quot;the indigenous elite who collaborated with the colonizers&quot;</td>
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<tr>
<td>Similar: fraternize, conspire, collude</td>
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Collaboration in the first definition has not thusfar been with the Indigenous Kanaka who protect Mauna Kea. We advise that if UH wishes to show “a global model of harmonious and inspirational stewardship,” it may need to seek to build true consensus, even if this means making a commitment not to use systemic brutality to achieve its goals, and thereby limiting itself to those that are actually collaborative.

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**Foreword (p4)**

**Breakdown:**

<table>
<thead>
<tr>
<th>Quote:</th>
<th>Comment:</th>
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<td>“the mauna (mountain) compels us to gaze upward in <strong>search of the unknown</strong>, thereby <strong>engendering a sense of wonderment and hope.</strong>” (foreword p. x/12)</td>
<td>It is hoped that this sense of wonderment and hope will eventually extend both upward and downward, to include the known as well as the unknown.</td>
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"Maunakea is linked to the Hawaiian people, their culture, cosmology, and for some the mauna is sacred." (foreword p. x/12)

Important: few Kanaka have ever said the Mauna was not sacred. Those who have were primarily amongst the small group of TMT supporters. They were not Mauna Kea cultural practitioners. The reason most commonly given was conversion to Christianity, meaning that no land is sacred because its sanctity was exterminated with conversion, or modernization, which follows a similar trajectory.
https://youtu.be/PARokT5DPXw.

Note that selective consultation with assimilated indigenous community members has long been established as a function of colonial exploitation.
https://readingroom.law.gsu.edu/cgi/viewcontent.cgi?article=3339&context=faculty_pub. In fact, alignment with destructive projects can be used as a measure of colonial assimilation. It is the Indigenous practices that have not undergone assimilation that are in the most urgent need of protection, and therefore the unassimilated practitioners are the ones who primarily need to speak for sacred lands.

"The quest to understand their beginnings is an inherent drive in all humans, and it has led virtually all cultures to develop rich stories and beliefs regarding their origins." (foreward p. x/12)

This is, in a way, profound, as it highlights the difference between colonial and Indigenous cultures. Indigenous Peoples do not need to "quest" to find our origins, because they are right below our feet.
What UH appears to be saying, from an Indigenous perspective, is that they are missing a piece of themselves, perhaps due to the spiritual disease of colonialism, and need to destroy our land to find it.
While true peace should indeed support healing for everyone, tolerance of this destructive need for colonial dominance is not healthy, and supports neither healing nor peace.
| **“thus its name, E Ō I Ka Leo (Listen to the Voice), for it is in listening deeply to the many values attached to Maunakea that the knowledge of who we are will be revealed, and our humanity affirmed.”** (forward p. x/12) | **We are hearing that listening is not enough. Affirming humanity would mean respecting the actual wishes of the Indigenous People, which are for UH to stop all proposals for further development and return the caretakership of the Mauna to those from whom it was taken.**  
https://globalnews.ca/news/5350772/genocide-canada-mmiwg/ |}
| **“our varied interests, as diverse and sometimes divisive as they may be, are in fact woven as lei (garland) through the innate human drive to understand our beginnings, and it is that lei which connects us”** (forward p. x/12) | **Many feel that this is highly problematic cultural appropriation.**  
| **“Foundational values that guide UH’s stewardship and inform E Ō I Ka Leo derive from key tenets of the Hawaiian worldview, which holds that cultural and natural landscapes are one and the same. In this worldview, land is not a commodity but rather an esteemed elder in the Hawaiian family”** (forward p. x/12) | **The problem, from a cultural standpoint, is that either the Mauna is sacred or it is not. If it is sacred, UH control and astronomy development are inappropriate. If it is not, why speak of the Hawaiian worldview?**  
One reaction: “An “esteemed elder”? So, it is ok to drill a hole in grandma’s face, then?” |}
| **“The Hawaiian relationship to the land is one of reciprocity; people serve the land which in turn provides for the people. In this view, it is the collective responsibility of UH, Native Hawaiians, the Hawai’i Island community, and the astronomy facility staff who benefit from Maunakea’s remarkable viewing conditions, to behave in ways that sustain Maunakea’s gifts of spirit, life, discovery, learning, and connection for future generations. The purpose of E Ō I Ka Leo is to help all fulfill their responsibilities to the mauna and to one another. (forward p. xi/13)** | **It is difficult to understand how UH can say something like this in a plan that proposes to build TMT and continue the theft of Kanaka sacred land indefinitely.**  
If they meant this, from the perspective of many Indigenous cultural practitioners, they would give it back. Period. |
Part of this responsibility is to integrate the knowledge and traditions of the ancestors into our plans and practices wherever we can. For example, the Kumulipo (an important Hawaiian creation account) describes Maunakea as the first-born mountain son of Wākea (sky father) and Papa (earth mother), who were also progenitors of the Hawaiian race. (forward p. xi/13)

Again, in the interest of real peace, I must be frank: This is cultural theft. Due to the known harmful, even deadly effects of this specific type of theft as a dispossession trigger, level that has been recognized as “second stage” genocide.

UH is nonconsensually using the names of the most revered Kanaka Ancestors in a plan that literally proposes to desecrate, destroy, and block cultural access to those Ancestors’ most sacred temple, and they say that they intend to do this “wherever we can” in the process. This violates WIPO’s policies on World Intellectual Property rights, amongst many other problems, and is a prime example of nonconsensual cultural appropriation.

Please note that it does not matter if some of the Indigenous population approve of the use of the words. This is UH’s plan. Further, the spectrum of harm is weighted away from those whose beliefs are more compatible with assimilation to this aspect of colonial modernization, and toward those to whom the Mauna is sacred enough to have a need to protect it from harm.

| "The resonance of the native Hawaiian kāhea (call) to compensate for past injustices is clearly reflected in the ongoing conflict over the development of the Thirty Meter Telescope (TMT) and with what is viewed as over-development on Maunakea for astronomy in general. At the same time, other community voices have consistently spoken in support of astronomy on Maunakea as an important element of the island’s future economic and educational base. This has motivated many in the community to pursue a vision for Hawai‘i of a more diversified economy that includes greater support for research, education, and technology and less dependence on tourism.” (forward p. xii/14) |
| This could be seen as a red herring, as it shifts the narrative in a problematic manner. The Indigenous voices that count, according to international Indigenous standards, in any consultation are the cultural practitioners. It is an established and heinous colonial crime to deliberately create divisions by enticing members of an Indigenous community to oppose their people’s own cultural practitioners, for the purposes of pushing a project with known Indigenous opposition. |

https://www.wipo.int/tk/en/indigenous/
https://www.ictinc.ca/blog/why-cultural-appropriation-is-disrespectful

https://library.oapen.org/bitstream/id/18055922-9c3e-4159-bc61-c475c4cc0111/621497.pdf

“Divide and Conquer” in Indigenous communities through monetary enticement has been established as an unacceptable act of colonialism.

https://intercontinentalcry.org/divide-conquer-interview-tom-goldtooth-part-i/
"Unfortunately, E Ō I Ka Leo cannot resolve past historical injustices and the consequences inflicted upon and experienced by Native Hawaiians because of them. Neither can it resolve the fundamental question of whether State and Federal policy should continue to endorse astronomy on Maunakea. While both are critical topics for the State, these are policy issues that UH alone cannot decide, and their resolution is beyond the scope of this Master Plan." (forward p. xii/14)

Kiaʻi are concerned with present injustices. To be clear, “Past historical injustices” are perpetuated by present historic injustices.


The common relegation of “anger” and “discontent” to the past is abusive. This is essentially an “embitterment fallacy”, similar to an abusive person denying allegations of abuse by assignment of the victim’s accusations against him to trauma over “past wrongs” done to the victim by others. It is a known form of gaslighting.


In 2016, UH collaborated with the astronomy-community in sponsoring the Envision Maunakea Initiative, a series of conversations led by its community partner, Friends of the Future. (forward p. xiii/15)

Some kiaʻi did participate in this, but reported it as problematic and controlled.

https://www.cij.org/opinion/mauna-kea-telescope-protest-hawaii . They pointed out that their statements against telescope development were not included in the Envision Maunakea report, while pro-astronomy voices were quoted heavily. Furthermore, kiaʻi who did participate were stereotyped as “snickering” and disrespectful to an elder relative of UH Astronomy staff in the published report, which they reported was not true. Envision Report:


Halepōhaku serving as a multi-disciplinary field station for research and teaching. Facilities and programs offered there would serve as a venue for focused, customized, high-touch, educational programming for college and secondary school students; community, professional, affinity groups; and the general public. It would be a place for integrating multiple disciplines and addressing diverse topics. (forward p. xiii/15)

This is problematic. Hale pohaku is at an elevation where traffic (aside from cultural usage) needs to be discouraged, not increased. School groups and more tourists are really not a good idea here. Cultural practitioners need to move freely, as is their tradition and right, without interference. Others need to be minimized.
Foundational to future educational programming and field work would be **building a solid cultural base of 'ike Hawai‘i and nohona Hawai‘i** (traditional practices) underpinning all offerings and opportunities. (foreward p. xiii/15)

Let's look at this statement from the viewpoint of a kia‘i reading this plan. He may well say, “You want to destroy our mountain that you say is not sacred enough to protect, and then you are going to steal our cultural words and concepts for these cheesy programs on top of that?”. While these cultural gestures may be intended as amelioration of some kind, they are actually highly offensive to many, and therefore tend to aggravate conflict, rather than resolve it.

### MISSION, VISION, VALUES, GOALS, OBJECTIVES, AND STRATEGIES

(p. 1-1/18 - 1-3/21)

<table>
<thead>
<tr>
<th>Mission</th>
<th>Sustainably steward Maunakea for the benefit of our communities, Hawai‘i, and the world, as a <strong>publicly-accessible learning landscape</strong> where all who visit learn, and those who seek something more discover through rich multi-cultural experiences and engaging multi-disciplinary discourse.</th>
<th>It should not be more publicly accessible. This essentially sounds like a tourist attraction. Cultural access needs protection. Encouragement of tourism and large education projects is not right, or safe.</th>
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<tbody>
<tr>
<td><strong>UH'S VISION</strong></td>
<td>Maunakea, a revered mountain, where landscape, community, and culture combine to inspire <strong>discovery, renewal, and world-class education and research.</strong></td>
<td>Encouragement of tourism and large education projects is not right, or safe.</td>
</tr>
<tr>
<td><strong>CORE VALUES</strong></td>
<td>Malama, Kuleana, Ike Hawai‘i; Nohona Hawai‘i (traditional knowledge; traditional practices). Mau loa (a long view). Laulima. Kupono.</td>
<td>From a kia‘i point of view, this is serious cultural theft. Kia‘i would probably ask, “how can they be using our cultural terminology on one hand, without understanding what any of this means? Because if they did, this document would not exist.” It is highly offensive, from an Indigenous cultural</td>
</tr>
<tr>
<td>Goals and Objectives</td>
<td>1.4.1 RESPONSIBLY STEWARD MAUNAKEA FOR PRESENT AND FUTURE GENERATIONS.</td>
<td>Traditionally, the Indigenous people of the land are its rightful stewards. UH is bluntly stating here that they intend to forcibly keep our land forever, rather than returning it. If this is their intention, it would be far more righteous, and in alignment with possible future healing if outcomes change, to simply speak the truth, and acknowledge their own role as colonial.</td>
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Goals and objectives (problem areas):

| Protect astronomical viewing resources by avoiding, minimizing, or mitigating activities that directly conflict with astronomical research. | This sounds as though it means blocking Kia’i. |

| Will limit astronomical research facilities and projects to only those for which Maunakea is particularly well-suited. | Since they have already stated that Mauna Kea is “ideal” for astronomy of all kinds, this sounds like a fancy way of saying that they will limit themselves to anything they want to build. |

| Guide human activities on the mountain in a way that minimizes their adverse effects and is sustainable. | Adverse to Mauna? Or astronomy? There is clearly a conflict of interest here. It needs to be remembered that “environmentalism” is frequently used against Indigenous peoples, also, despite the positive effect that protection of Indigenous cultures has on the environment. |

| Affirm and protect Maunakea as a wahi pana and wao akua. | From a kia’i perspective, this would mean stopping telescope development and dispossession. |
| Maintain the physical and administrative environment necessary to continue cutting-edge astronomy on Maunakea. | The intention to oppress or restrict kia‘i can be easily read, here. Again, excessive wordsmithing is not conducive to peace. Also, the competitive nature of this section is problematic. Why does UH need to be a “leader”, “cutting edge”, etc? Kia‘i might question, is that position in competition really worth brutality against an Indigenous culture? |
| Protect astronomical viewing resources by avoiding, minimizing, or mitigating activities that directly conflict with astronomical research. | This sounds like an intention to oppress kia‘i. |
| repurposing the Halepōhaku facilities as a Multi-Disciplinary Field Station to support a broader range of education and research. | Bringing more people for broad education is not good. |
| In partnership with the Native Hawaiian community, determine the feasibility of, and develop plans for, establishing a hālau for ceremony and education on the mauna. | This is highly inappropriate. Divisive, disrespectful, and damaging. No Mauna Kea cultural practitioner, to my knowledge, asked for or wants this. It would sow deep division and conflict, rather than helping to resolve anything. |
More quotes of note:

<table>
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<tr>
<th>&quot;A <strong>destination for Hawai‘i residents and visitors seeking cultural, educational, recreational, and exploration experiences</strong>” p2</th>
<th>This is problematic. Sounds like edu-tourism.</th>
</tr>
</thead>
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<tr>
<td>“In managing this precious area, UH recognizes that it must <strong>protect the area’s value as A culturally significant landscape</strong> and a recognized historic district with many contributing historic properties; who for some it is a wahi pana (storied/legendary place) and for others it is considered <strong>wao akua</strong> (realm of the gods).”</td>
<td>This is highly problematic. There is simply no pono way for a colonial force to “manage” a place has cultural value, and “protect” it from the people of that culture, who do not consent to their involvement at all.</td>
</tr>
<tr>
<td><strong>Mālama</strong> (care for). Maunakea is a significant cultural and natural landscape. It is wahi pana and, to many, <strong>wao akua</strong> where ‘ike Hawai‘i and traditional Native Hawaiian cultural practices were born and are exercised.</td>
<td>The profuse usage of cultural terminology is certainly problematic, from the viewpoint of many kanaka, in a plan that seeks to destroy part of the most sacred mountain of that culture.</td>
</tr>
<tr>
<td><strong>Kuleana</strong> (responsibility or privilege). The UH Maunakea Lands are held in trust by the State for the benefit of Hawai‘i’s people. Access to these lands shall be managed in a manner that balances the public’s right to access with UH’s obligation to: (i) protect and conserve their natural, cultural, and scientific resources;</td>
<td>This section makes it sound as though the repression of kia‘i for the purpose of modern astronomy is the “kuleana” of UH. That is truly offensive. It would be much better to leave the cultural terminology out of the mix, in proposal areas such as this.</td>
</tr>
<tr>
<td>Decommission a sufficient number of existing astronomy facilities to ensure that the number of operating astronomy facilities in the MKSR is no more than nine (9) by December 31, 2033, and do not exceed that number throughout the remainder of the time covered by this Master Plan.</td>
<td>While decommissioning is a long term plan, it can be destructive and problematic in itself. It is not a secret that UH wants to be able to build more, larger, &quot;cutting edge&quot; telescopes. Decommissioning is a major step toward more construction. &quot;Swapping&quot; telescopes results in far more impact to the Mauna.</td>
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</tbody>
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25 OCTOBER 2021

In the Hawaiian Islands

Fm: Liko-o-kalani Martin
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likomartinhhawaii@gmail.com

To: The Board of Regents, (University of Hawaii and California) & University of Hawai‘i at Hilo/Center for Mauna Kea Stewardship;

United States Secretary of the Interior, Deb Haaland
1849 C. Street, N.W.
Washington D.C. 20240.

SUBJECT: Review, Input and Comments on the University of Hawaii Draft Management Master Plan for Mauna Kea (Sep. 12, 2021);

CONSTRUCTIVE NOTICE -

Distinguished Regents and Facilitators, ano ‘ai me ke aloha,

I am an elder Hawaiian Kupuna, one of thirty-eight that were arrested on July 17, 2019, while peacefully assembled to prevent the construction of a thirty millimeter telescope (TMT) on the pristine Northeast plateau near the summit of Mauna Kea. This environmentally pristine and delicate ecosystem is a place of antiquity, studded with numerous shrines and sites used in the context of indigenous science and religious practice, and is in close proximity to ancient burial sites and prehistoric features. Incursions into this delicate and pristine Northeast plateau to construct the TMT will lead to the complete destruction and desecration of these features.
In 2016 I visited the location and was awestruck by the vastness of the view plane, looking down into the crater of Haleakala, seeing as far as the clouds over Poliahu heiau in Wailua, Kauai. Surrounding me were a series of platforms built in ancient times, along with many natural rock formations showing signs of glaciation. It was simply breathtaking to stand there. On the trail leading there was an ahu, constructed by religious practitioners for seasonal ceremonies marking the passage of time and the seasons, unfortunately it has since been destroyed, removed to prevent those practices and rituals from continuing.

It is ironic that the Native American Religious Freedom Act, championed by Senator Daniel K. Inouye, which was intended to protect FREEDOM of religious practice, has failed to protect Hawaiian religious practitioners from subjugation, persecution, regulation, exclusion, limitation and restrictions on religious practice. That legislation, as a matter of fact, emanated from the struggle to stop the United States from using the island of Kahoolawe as a military training ground. Once bombing had ceased, inspections revealed the destruction of hundreds, and perhaps thousands of cultural sites, we will never know!

The Native American Graves and Repatriation Act (NAGPRA) for all its best intentions, miserably failed in these Hawaiian Islands, as evidenced in the U.S. National Park Service 2010 (20 year) Audit of the state of Hawaii (SOH) Historic Preservation Division and Burial Council activities. As a
consequence the (SOH) historic preservation system was designated as “a high risk grantee”, and that designation was only recently lifted in 2019.

So here we are in 2021, and the Hawaiians, as a whole, throughout the islands are being unable to, and in some cases forcefully prevented from freely practicing their religion, which is in essence a lifestyle of living in harmony and awareness of our natural environment that acts as our living church, our religious temple, Mauna Kea being its steeple. Senator Inouye, during the Apology Law debate, while being questioned by his colleagues on its necessity, workings and its implications, rose to the floor and stated, “this has nothing to do with the question of whether native Hawaiians are Native Americans”.

That question, poised by the Senator, is at the crux of this issue. I can make no claim to any civil, political, or human liberties that emanate from or have any nexus as a “native Hawaiian”, defined by the apartheid Hawaiian Homes Act of 1920, as amended, because in doing so, or allowing that distinction to be placed upon myself, as is generally done to identify Hawaii’s original Inhabitants, is acquiescing to apartheid.

It is imperative that the distinction of our true identity is applied not just with respect to Mauna Kea but to all of the lands, and juridical regime of historic bays and waters comprising the Hawaiian Islands. We, the Kanaka, are the original Inhabitants who discovered, surveyed and settled not only in Hawaii, but who inhabit the islands within what is known as the Polynesian Triangle. We are intrinsically connected by kinship, language, customs, culture and bioregion. As a part of that group, we in the Hawaiian Islands have evolved into a highly sophisticated society, a recognized independent and “inviolable” neutral nation-state that still exists in continuity under international law. Mauna Kea is a part of our heritage, our DNA, and sacred as life itself.

My name is Liko-o-kalani Martin, born October 25, 1945 in Aiea, Oahu, in the Hawaiian Islands, to Marion Healihi Heen, being part-Hawaiian. I am exercising my basic human ‘liberties' in determining for myself my ‘Nationality’ and political allegiance under and within the constitution and
laws of the Hawaiian Kingdom, as duly enacted on and prior to January 17, 1893, when Her Majesty Queen Liliuokalani did “yield” and invoke a “treaty of protection”, until such time that the lawful constitutional government of the Hawaiian Kingdom is reinstated, and that is the true foundation of the “trust obligation” of the United States, its State of Hawaii and its People, to myself and others so situated, and directly applies to the treatment of Hawaiians on the lands situated on Mauna Kea, and “anything to the contrary [is] notwithstanding”.

I hereby provide Due Notice of my nationality, in respect for the terms and conditions on the title in the lands on Mauna Kea, and the ongoing force and effect of ‘Hawaiian National usage’. I am still a victim of discrimination in this process, being persecuted and prosecuted subject to criminal proceedings, not ‘provided by the Hawaiian Laws’ as lawfully enacted on or prior to the January 17, 1893.

With respect to aforementioned, I sincerely appreciate this opportunity to offer my perspectives on the proposed TMT and management plan for Mauna Kea, and join with you, to navigate and chart a course through the decision making process towards our destination and decisions regarding the fate of Mauna Kea.

The management plan as it sits provides a wealth of information, pros and cons on a variety of issues, and allows one to grasp the sheer scope and interrelation of those issues. I offer my comments, based upon my experiences from a wide range of perspectives, sometimes as a petitioner and at times an intervenor. My comments, offered in good conscience and in good faith, are as follows:

1 - fails to adhere to the terms of the (ownership)Title in lands;
2 - fails to ensure that ahupua’a rights will not be violated;
3 - fails to protect ahupua’a lifestyle;
4 - fails to adequately protect Certain Rights of the People-Hawaiiana, and various classes of tenants, and their rights of use and occupancy;
5 - insures permanent and irreparable alteration of the natural pristine environment of the northeast plateau, designated as the site for the planned Thirty Millimeter Telescope (TMT) located near the Summit of Mauna Kea, will be irreparably altered, destroyed, and contaminated;
6 - insures desecration and destruction of the existing portion of the ring of shrines dedicated to indigenous Hawaiian science, and sites erected for religious use.
7 - insures the contamination and permanent alteration of geomorphic features of the headwater basin for streams flowing into the Kohala mountains and Hamakua Laupahoehoe;
8 - fails to adhere to the highest conservation status previously applied;
9 - insures the spoilage of endangered environments, flora and fauna, by inappropriate commercial exploitation activity such as tourist access, that is being encouraged and accommodated in this management scheme.
10 - legitimizes and commodifies destruction, contamination and desecration upon Mauna Kea simply because it was previously allowed to happen in previous construction of observatories;
11 - fraudulently represents that prior observatories were properly permitted, when in fact no “qualified historic preservation review commission” (as required under Title 16 USC-CONSERVATION, with respect to operations of a certified local government) no agency or administrative entity had ever existed during those previous construction periods, nor does one exist at this present time.
12 - the plan exemplifies a sophisticated process of public bribery, extortion and coercion in dealings with TMT proponents and other commercial enterprises, much like activities associated with racketeering influenced and corrupt organizations (RICO), and should be examined in that criminal context by the U.S. Department of Justice (FBI);
13 - criminally enforces apartheid and encourages discrimination by use of the term “native Hawaiian”, as defined by the Hawaiian Homes Act of 1920, a term specifically used to treat persons as wards, incapable of managing their own interests, rather than persons whose ‘national origin’ stemming from the Hawaiian Kingdom, as wards. Apartheid, slavery and involuntary servitude is currently outlawed, under the International Covenant on Civil
and Political Rights (ICCPR) and the International Covenant on the
Elimination of all forms of Discrimination (CERD), and as the United
States and its people are obligation, so is the State of Hawaii and its
people.
14 - plans show a pattern of malicious expropriation and use of Hawaiian
language, terms, heritage, religious practices, and other personal accounts
that have been offered in this process.
15 - plan incites the commission of crimes of genocide as articulated in
USC 1091, Chp. 50-A - GENOCIDE, because it creates conditions whereby
people who have been inadvertently phsycologically tortured, physically
abused, assaulted, terrorized, and prevented from exercising their human
liberties and freedoms, will be further subjugated under conditions in which
livelihood and religious practices will be forcefully regulated, limited,
restricted and even excluded. This management scheme disguises this
subjugation, in the pretense of recognition, but with the consequence of
deprivation, of the “part”, and the “whole”.
16 - lays the groundwork, exemplifying a “final solution” approach by the
syndicated powers that be, within the body politic of the U.S. political
“provisional” subdivision aka state of Hawaii (US Federal Const. adopted),
to effect political crimes upon a civilian population by means of domestic
laws. As such, liabilities are automatically invoked upon individuals under
the ROME STATUTE of the International Criminal Court (ICC)(Geneva) for
perpetration of crimes of genocide, crimes against humanity, and war
crimes:
17 - reflects a denial of my right of political self-determination in conformity
with the purpose and principles of the United Nations Charter and freedom
to pursue economic, social and cultural development;
18 - fails to ensure the unfettered exercise of civil and political rights;
19 - planning process does not provide an effective remedy for the
settlement of disputes, due to the lack of a court of competent jurisdiction;
20 - reflects an absence of articulated laws which give effect to the
protection of my freedoms, and enforcement against violation;
21 - reflects lack of oversight and compliance with existing law by persons
with authority, or those who purport to act in an official capacity;
22 - reflects lack of consistency in providing protections under international law to prevent "abuse";
23 - failure of a State party to notify the Secretary-General of the United Nations of the derogation from international obligations to adhere to the rule of law, in a time of emergency that affects my group as a whole, and in part, whose rights of sovereignty in the "national lands", has not been voluntarily "relinquished" (See, Congressional findings, USPL 103-150);

24 - invokes restrictions and derogations upon my fundamental human rights, under the pretext that inadvertent discrimination is acceptable;
25 - reflects an arbitrary deprivation of my right to life;
26 - subjects persons to persecution;
27 - subjects persons to inhumane and degrading treatment;
28 - subjects persons to servitude and slavery;
29 - summarily and arbitrarily denies my liberty, security and/or protection from arbitrary arrest and/or detention;
30 - reflects the incompetence of the judicial system, administrative officers in the exercise of judicial power using the courts of the Hawaiian Kingdom, in the Hawaiian Islands;
31 - does not afford protection from unlawful arrest or detention, or an enforceable right to compensation;
32 - reflects a denial of my liberty of movement;
33 - reflects control over my right to freedom of thought, conscience, and the manifestation of religious worship, observance, practice and teaching;
34 - reflects manifested pressure and subjugation to coercion in the impairment of my religion and beliefs;
35 - reflects a lack of protection of the national interests, and integrity of our "national lands";
36 - reflects advocacy against my national identity constituting an incitement to discrimination and hostility;
37 - imposes restrictions on the right of peaceful assembly in the protection of Hawaiian national interests, safety, spiritual health, morals, rights and freedoms;

38 - fails to address restricting/restrictions upon foreign military armed forces situated on Mauna Kea, or local police from interrupting and preventing freedom of association for the protection of our national interests;
39 - reflects lack of maintaining unity and protections for the families and individuals, Hawaiian and Part Hawaiian, in respect for their collective and individually vested interests, and society as a whole, on the part of the United States and its political subdivision state of Hawaii;
40 - process and plan did not and does not provide equal protection before
the law, because of discrimination based on “religion, race, color, ethnicity,
[political or other opinions] and “national origin”;
41 - process and plan effectively deprives, denies, threatens and imposes
upon my right to enjoy a cultural lifestyle, in community with other members
of our group;
42 - reflects a failure on the part of the United States, and its political
subdivision being the “administering power” in the Hawaiian Islands, to
adhere to GENEVA IV- Respecting the Laws and Customs of War on Land,
and Annex Regulations concerning the Customs of War on Land (U.S.
signatory 1908-HAGUE), as well as the applicability of international laws
and instruments relating to the protection of political and civil rights of
civilians, or Hawaiians and part-Hawaiians who are currently classified as
“protected persons” by Amnesty International (U.S).
43 - reflects a prohibition and impairment of my, and my national groups,
rights in the utilization and enjoyment of our national wealth and natural
resource wealth;
44 - causes and proliferates illegalities to arise under the laws of the
United States, its state of Hawaii, and ordinances of the County of Hawaii,
by the use of a Tax Map Key (keyed only with no determination of
ownership [or notice of prior interests of third parties], due to the lack of
uniformity in the method of assessment for the purposes of taxation;
45 - fails to include the application of desecration laws and the pattern of
systemic avoidance to enforce desecration laws, at either the U.S. Federal,
State or County levels. Comments are closed.

In the non-contiguous Pacific area of the Hawaiian Islands, jurisdiction
for discretionary oversight of historic preservation programs and
conservation is conferred to the U.S. Secretary of the Interior, under
Association Act of 1985 Title III - Pacific Policy Reports - with respect to
the United States attaining, “… its international obligations”.

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In pursuance, beholding to the officially no-abrogated treaty of "Friendship, Commerce and Navigation of 1850" between the United States of America and the Kingdom of Hawaii, I am forwarding my comments on the Mauna Kea, management proposal, to the U.S. Secretary of Interior, Deb Haaland, requesting her, at her discretion, to intervene and investigate this contentious situation regarding the construction of the TMT (taking into account the cumulative negative impacts from pre-existing observatories, and the added impact of the TMT, along with increased impacts by recreation and tour operators, and other activities in conjunction with the management proposal for Mauna Kea), in order to determine if aspects of the State certified local government [program], as applied to Mauna Kea, are consistent with Title 16 U.S.C. - CONSERVATION, provisions relating to:

1) "Certification of local governments...", given the non existence of a "qualified historic preservation review commission" for the County of Hawaii, Maui or Oahu, with the exception being the County of Kauai (see (U) MEMORANDUM, 12 August 2002 from the Kauai Historic Preservation Review Commission- per the Hawaii Revised Laws of 1955, Volume I, Chapter 14 - CERTAIN RIGHTS OF THE PEOPLE - HAWAIIANA),
2) to, disapprove of the State "certified local government" system,
3) to, suspend in whole or in part any contracts or cooperative agreements entered into by the State certified local government, and/or the State Historic Preservation Officer, until the program is consistent,
4) and, at the discretion of the Secretary, to conduct a fiscal audit of the State certified local government system.
5) consider a management substitution that would establish oversight methods to ensure State program consistency and quality, with respect to Title 16 U.S.C. - CONSERVATION, Part A - Programs, 470(a) Historic Preservation Programs.
Thank you for this opportunity to share my concerns. I shall look forward with anticipation that these remarks, while they may be blunt, are meritorious and worthy of serious consideration at this critical juncture, adding understanding, clarity and direction towards raising the level of unity and integrity in this process.

Respectfully submitted,

Liko-o-kalani Martin

  (https://drive.google.com/file/d/18qjG0qmfYfjYHzZ8cyLKyceNxtaPqWCl/view?usp=sharing)

- KHPRC 8-12-02.pdf
  https://drive.google.com/file/d/1Zi1PiaEL-BkPX7EHfnT5yYcyomhF8Nc/view?usp=sharing

Dawn on Mauna Kea, July 17 2019
(before arrest of 38 kupuna)
Photo by Liko Martin
Testimony in response to the UH Master Plan for Maunakea

I read the Mauna Kea Master Plan beginning at the appendices and working to the front of the documents. Two things are glaringly apparent. The plan provides clear insight into the long-term game plan and true agenda of the University – to continue to justify and push forward the TMT. It also lacks sufficient detail to determine the real level of impact the plan will have on the natural and cultural landscape, nor the true nature of impact to the Hawaiian community due to the persistent belief of the university that the telescopes should be on Mauna Kea.

Professional planning has its good and bad sides; at its best, it starts by including the information up front they know will be asked for along the way, instead of wasting the public’s precious time and energy having to push back for what is necessary. This plan is not one of those examples; it does not demonstrate the “deep listening” it claims to attend to. Instead, it is a bare bones outline with limited context and intention.

The plan begins with the awards and accolades the University of Hawai‘i and the Mauna Kea management group have been given. It talks about the benefits – to a very few Hawaiians and other students who may be part of astronomy programs or have a short-term construction job, perhaps even a few will continue on as researchers. We already know from decades of observation that none of the high level/highest paid research positions have ever been filled by Hawaiians.

That said, the tiny number of beneficiaries is far out-weighed by those who will be negatively impacted by the ongoing presence of the telescopes, old or new, on Mauna Kea. It is ludicrous to pivot the argument for telescopes on the Mauna on the fulcrum of 5 or 150 researcher or student jobs or internships, or a temporary 100 construction jobs (hypothetically), at the expense of cultural integrity for 50,000 or 250,000 Hawaiians and the integrity of the Mauna itself, let alone the professed “benefits to the world” against a culture that has consistently been abused of its rights and its lands. If we were to use that same argument, the survival of the Hawaiian people, their knowledge and culture, the integrity of their lands, is of far greater value to the world right now than the study of galaxies beyond our reach.

We also know that the future of hardened structure observatories has an end. That new technologies and satellite/space station imagery will rapidly replace the need for such structures. The required Section 106 review will take 3-5 years. By the time the TMT is projected to be finished (2033, just as the permit will end), if built, it will be two decades obsolete. The university continues to demonstrate a lack of vision about the future of astronomy in this regard, and a lack of vision about what is actually a science reserve (and what that could mean), not an astronomy subdivision.

For some, space and its galaxies are a puzzle to be untangled – how our world, the stars were made or destroyed. Fascinating questions. Yet, astronomy, as a science, has always been and continues to be predicated on discovery, and more so, the discovery doctrine of the Western world – the right to seek out new worlds, establish colonies, dominate and lay claim to them. A doctrine that has, and continues to, negatively impact indigenous peoples and the living biota of this world, globally. The right to build where we should not build, to claim lands and authorities that are not ours to claim. This colonizing doctrine sits unacknowledged in the very foundations of the science – and in the University of Hawai‘i’s attitude and presence on the Mauna. It assumes it has a right to be there, just as the State assumes it has a right to Crown Lands. Underlying the discovery doctrine is exploration – more aptly, exploitation - a well-documented practice of using...
up a place until there is nothing left, and abandoning it, as is, for new ground (to suggest that Western exploration is no different than that of the Pacific navigators is to fail to grasp the fundamental differences in those relationships to ‘āina). Not dissimilar to the University’s long history of ‘abandon in place’ regarding decommissioned telescopes and support structures on Mauna Kea. Or, its asteroid research whose goal is mining.

Astronomy has a second hidden ‘truth’—the Western world’s fear of dying. Where do we go—do we persist as a species—if the Earth ends? Aply framed this month (HAS 10/14/2021) by David Bennett, a senior research scientist at the University of Maryland and NASA’s Goddard Space Flight Center, “If humankind wanted to move to a moon of Jupiter or Saturn before the Sun fried the Earth during its red supergiant phase...,” a point in time that is more than a billion years away. More insidious in this goal is who, of Earth’s billions of people, will get to go when the time comes? A question and problem ripe for class- and culture-based discrimination (pay to play) or fueling “Squid Game”-like behavior across all groups and nations for a limited right to ride.

Follow the money in astronomy research and you will see a leaning towards finding and studying planets we might be able to live on in the future. Follow the money on Mauna Kea and you will see that even “decommissioned” telescopes have an end game of scoring the TMT and that the old sites will not be returned to restored ground. Parking lots— for “visitors” (aka tourists) rather than a removal of the density of unnatural footprints and our presence.

Why bring this questioning of the foundational stones of astronomy, itself, up here? Two reasons; first, it is time for us to question deeply how astronomy operates as a discipline and at UH; and, the politics that the program and UH plays, particularly its selective use of Hawaiian culture and selective claims of benefits to Hawaiians when it wants something that runs counter to and threatens to further undermine cultural and ‘āina-based integrity.

Equally important, our greatest threat in the immediate future is the escalating damage we have caused to the Earth which has precipitated global warming and climate change. Are those “driving questions” of astronomy where our attention and resources at UH (or nationally) should be right now? Where do ethics stand when a researcher’s “I just really want to know” right, fails the right of the Earth to thrive or our right to thrive as a people? Rather than looking for habitable planets beyond us, we have a far more urgent kuleana to repair the damages we have caused right here, and quickly so that we can, if we survive the next millenium, let alone the next billion years, be prepared to voyage to new “islands” in a more pono manner. The Pacific islands are already losing, Hawai‘i is already over-burdened; Mauna Kea, Mauna Loa, Haleakala are all over burdened. The bulk of ours and the University’s attentions and resources should be focused there.

Cleaning up our footprint. Demonstrating long-term that we actually deserve to be considered as inhabitants of these islands or another world. Our children copy what we actually do, good stewards or bad, not what we say or put down on paper.

The University, the regents, astronomers fail to grasp the impact of continuing to treat Mauna Kea, which is designated as a scientific reserve and not the exclusive realm of astronomy, as a development zone. To play it like a chess game—what can we lose and still win—to keep the TMT in the game and control of the Mauna in its own hands. A case in point, the proposed Hokulea telescope education center received overwhelmingly negative response, yet, UH continues to push it, determined to plow ahead no matter what is said or heard. Modern day “glass beads”.

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The entire plan skims over who Mauna Kea is and what it protects for all of us. Water. Sacred space. Not sacred because, as the plan wrote, “some say it is.” Rather, sacred long before and after our own tiny moment of existence as a species runs fleetingly through the life of these islands and planet Earth; long before and after heiau or observatories are placed and return to dust. Indeed, not only are there no hydrology studies that describe the things you don’t know, but, they indicate the high level aquifer is being contaminated by the presence of the telescopes.

This paragraph, one of the last I read and the most telling of all in the document, is where the master plan and the university utterly fails in understanding its responsibilities, and fails the purpose of a Master Plan itself [italics added].

“Unfortunately, E O I Ka Leo cannot resolve past historical injustices and the consequences inflicted upon and experienced by Native Hawaiians because of them. Neither can it resolve the fundamental question of whether State and Federal policy should continue to endorse astronomy on Maunakea. While both are critical topics for the State, these are policy issues that UH alone cannot decide, and their resolution is beyond the scope of this Master Plan.”

By this statement, the University hopes to hide the last 56 years of bad acting and bad management under the cloak of the Overthrow and all that came with it; an attempt to absolve itself of the last 56 years of poor and disrespectful management of Mauna Kea by its own hands. That they say they cannot right the wrongs of a past they, themselves, perpetrated is a slap in the face to all of us, both against or for the telescopes on Mauna Kea. That they say they cannot decide now, of their own accord, to withdraw from the mountain and make things truly right, but rather it is up to the State and federal government to make that decision, is the biggest lie of all. The above statement shows the University will continue to refuse to take responsibility for its own actions of the past until the end.

While the vision is inspiring, the Plan’s mission statement, again, fails the Mauna. It is solely focused on how the University will use Mauna Kea. Not one word in the mission puts Mauna Kea first. The same is true of the Balance goals. The word “sustainability” has come to mean maintaining the rate, and right, of use, rather than restoring the lands we wish to have access to. There is little in the plan to suggest otherwise. What exactly does UH intend to sustain?

In stating that it sees one of Mauna Kea’s values as “A destination for Hawai‘i residents and visitors seeking cultural, educational, recreational, and exploration experiences…” it makes clear that UH seeks control of engagement in the wao akua and it includes the selling of a “destination” experience. Tourism does not belong on the Mauna and conflicts with the restorative processes and presence required of us to make things right.

The core values sound well and good, but why would we trust an institution that has consistently flouted the very values they repeatedly trot out and profess to uphold in project after controversial project for decades? Just one example, the master plan “Will limit astronomical research facilities and projects to only those for which Maunakea is particularly well-suited.” Who gets to decide this?

Regarding UH goals to maintain a world-class astronomy program it fails to include a critical objective to educate itself and visiting researchers from other institutions to respect Mauna Kea, Hawaiian culture, and the kia‘i mauna. That includes putting a stop to the the derogatory and racist conduct, words, and attitudes of researchers that have been on display for the world to see.
and arrogantly places conventional/modern science above indigenous scientific wisdom. It includes putting a stop to “handling” conflict by calling in the police and the military. It includes putting a stop to the PR campaigns meant to raise astronomy research accomplishments over the perspectives and millenium of knowledge that resides within the Hawaiian understanding of ‘āina relationships and responsibilities. We have watched as preparation for the reopening of the mountain has included increased press in local newspapers about “discoveries” from observatory research and the “focused, customized, high-touch, educational programming for college and secondary school students; community, professional, affinity groups; and the general public;” white washed language for brainwashing masquerading as “education” and right out of the UH PR playbook for turning public opinion from opposing positions when past controversial University research resulted in intense conflict within the Hawaiian community. This includes encouraging press language that paints the protectors of the Mauna as “foes” (HAS 10/20/201) and “activists” (as if that were a dirty word) rather than the steadfast cultural practitioners and protectors they are. And, like many of those other conflicts, the question must be asked – how many millions of dollars have gone into that PR machine to try to swing opinion about Mauna Kea and the TMT that could have gone to higher UH system priorities?

To spend tenfold more in one year on PR to drum up public or legislative favor of a project, and against Hawaiians when they don’t agree with UH, and on police force, than the entire annual budget of eg., bridge programs from high school to college, scholarships, repairing infrastructure on its research and demonstration farms, or filling needed teaching and extension positions in rural communities that, as a land grant university, it is supposed to serve, is a shameful misuse of resources in the name of “world class science.”

Hitching UH’s vision to the State’s economic vision, one that remains entrenched in dependence on tourist dollars, a plantation mentality in agriculture despite its claim to ‘diversification’, and the military, is to say that nothing will change. The University needs to delink from this failed and limited vision; challenge yourselves to step outside the institutional comfort zone and be better. Choose a pono economics vision instead.

Unmentioned is the funding the University expects to gain or the true cost to the State (aka Hawai‘i taxpayers) – it’s always about the money. The TMT project is short of funding to the tune of $2.4 billion and growing. The state is aware of this but is allowing UH to start construction and sticking us with the bill (as if the rail project and upcoming remake of Aloha Stadium is not enough). On every island, developers push the envelope on permits with the same excuse that the University has used with the legislature; “We’ve already invested money, you need to let us finish.” The typical state agency response; “Well they started building, they invested money, so we can’t tell them no, or to remove it.” We can, and we should.

Seemingly small elements of the Master Plan such as the installation of a “kiosk”, actually a toll booth, implies that the University has the right and authority to be the gate keeper for who accesses the Mauna – it does not. Its placement appears to be a thinly veiled attempt to shut down future access to the kia‘i mauna should UH perceive the need. The words “protect public health and safety” were used regularly as a rationale to bring in police force in attempts to remove kia‘i mauna during the protests of the last few years. The access road to the summit is a public road with a non-exclusive easement, the critical portion of which belongs to Hawaiians. The NARS area is public land. The University has no rights over Waiau and cultural practitioners should be able to travel to these places without having to request permission from UH months in advance for
a pass for observations. The answer to a request to enter belongs to Mauna Kea, to Poliahu, Pele, Lilinoe.

The problem with Kupono, trustworthiness, as a value that UH is saying it will subscribe to, is that the University has had too many chances to get it right, and failed to act each time. Now by their words, even with the offer to decommission structures, they refuse to be held responsible for past actions. Not once has it occurred to UH to take seriously the first step in ho‘oponopono – mahiki and ‘ola I‘o - truthfully acknowledge its many wrong actions specific to Mauna Kea (or other research projects), understand the impacts of such actions, publically apologize for the injuries it has caused, and mean it. It is this piece that is always missing from the University’s attempts to move forward. And, it is the reason UH is no longer trusted as an institution.

When a person, given dozens of opportunities to change, continues to abuse another for that long, it is recognized as pathological behavior that needs to be stopped. We know that “rehab” doesn’t work in such recidivist cases; that when cornered they will paint a slick rationale; make all kinds of empty promises in a bid for ongoing freedom. Just as we know this master plan and its words are an attempt to say anything (and do the minimum) to “keep the TMT door open” plan. The fact is, UH is only engaging in this new process because it has been forced to by the growing voices of opposition. The institution would not have endeavored to take this step on its own. The damage inflicted on others by years of bad acting can only begin to heal with true justice. It is time that the University loses the privilege of leading (or having the final say on) the master plan or managing Mauna Kea.

Astronomy students will still have options. Beginning with a more limited observatory presence on Mauna Kea (and Haleakalā), there are prestigious programs across the world that students and UH researchers can be a part of, that the University can facilitate partner programs with. There are programs beyond the University across Hawai‘i where they can learn the way their ancestors saw the stars and understood the heavens, from the deck of a voyaging canoe or the top of Mauna Kea.

If the summit of Mauna Kea remains a telescope subdivision, what options does that leave for the Mauna, itself? The presence of Poliahu in July of 2019 and the swelling of its crown by her sister tells us the response.

This Master Plan should be rejected in whole and sent back to the drawing board. The Mauna is part of the Crown lands. It is kanaka maoli who should determine what happens there. Without indigenous consent, there should be no further development, nor should UH have a say in how the existing structures will be decommissioned. The University should not be allowed to manage the summit.

Sincerely,

Penny Levin /s/

Penny Levin
Maui

cc BLNR, OHA, Sierra Club
11 INPUT RECEIVED VIA EMAIL

Submissions were received from the following and are reproduced below:

- State of Hawai‘i Department of Health, Wastewater Branch
- United States Department of the Interior, Fish and Wildlife Service
- National Parks Service, National Natural Landmarks Program
- Flores-Case ‘Ohana
- National Science Foundation (identical to submission received via U.S. mail)
- Hanalei Fergerstrom
- County of Hawai‘i Planning Department
- Deborah Ward
October 8, 2021

Mr. Gregory Chun, Ph.D.
Executive Director
UH Hilo Center for Maunakea Stewardship
640 North Aohoku Place
Hilo, Hawaii 96720
Email: cmshilo@hawaii.edu

Dear Mr. Chun:

Subject: Public Draft Master Plan for the University of Hawaii Maunakea Lands;
E O i Ka Leo
TMKs: (3)-4-4-015:009 and (3) 4-4-015:012

Thank you for allowing us the opportunity to provide comments for the subject draft master plan. It is our understanding that for the Mauna Kea Science Reserve, wastewater generated at each of the astronomy sites will be managed by each facility through permitted individual wastewater treatment systems. Those facilities that continue operation beyond 2033 will be required to properly abandon their existing wastewater treatment system and be replaced with a zero-discharge wastewater system. For Halepohaku, all wastewater will either be routed to other permitted treatment systems or new septic tanks with leach fields or an alternative method permissible by applicable regulations.

The Department of Health, Wastewater Branch has no objections to the proposed master plan as long as the existing and proposed wastewater systems are in compliance with applicable provisions of our Hawaii Administrative Rules (HAR), Chapter 11-62, "Wastewater Systems."

Please be informed that the proposed wastewater systems for the development may have to include design considerations to address any effects associated with the construction of and/or discharges from the wastewater systems to any public trust, Native Hawaiian resources or the exercise of traditional cultural practices.

Should you have any questions, please call Mr. Mark Tomomitsu of my staff at (808) 586-4294.

Sincerely,

SINA PRUDER, P.E., CHIEF
Wastewater Branch
In Reply Refer To: 01EPIF00-2022-TA-0016

October 15, 2021

Gregory Chun, Ph.D.
Executive Director
University of Hawai‘i at Hilo Center for Maunakea Stewardship
640 North A‘ohōku Place
Hilo, Hawai‘i 96720

Subject: Comments on the Draft Master Plan for University of Hawai‘i Maunakea Lands, Island and County of Hawai‘i

Dear Gregory Chun, Ph.D.:

The U.S. Fish and Wildlife Service (Service) received your request for comment on the Draft Master Plan (Plan) for the University of Hawai‘i (UH) Maunakea Lands: E Ō I Ka Leo on September 13, 2021. The Plan has been developed with input from a wide sample of stakeholders and UH now seeks feedback from the broader community. This letter has been prepared under the authority of, and in accordance with, provisions of the Endangered Species Act of 1973 (ESA), as amended (16 U.S.C. 1531 et seq.).

Purpose of the Master Plan
The purpose of the Plan is to guide UHs consideration and prioritization of proposed land uses within the UH Maunakea Lands in a manner consistent with UHs mission and purpose, promotes UHs vision for the lands that it manages, and contributes to the achievement of UHs goals and objectives. The Plan is intended to guide:

• The planning, siting, and design of new facilities and improvements.
• Alterations and other material changes to existing facilities that will cause a permanent change to the land; and
• Decisions that UH may be involved in regarding which existing astronomy sites will remain in operation.

We provide the following comments for incorporation in your Plan and further consultation as necessary. Based on the information you provided and pertinent information in our files,
including data compiled by the Hawai‘i Biodiversity and Mapping Project, there are five listed animal species and one listed plant in the immediate vicinity of the project area: The federally endangered Hawaiian hoary bat (*Lasiurus cinereus semotus*), the endangered Maunakea Silversword (*Argyroxciphus sandwicense* subsp. *sandwicense*), the endangered palila (*Loxioidees bailleui*), and palila critical habitat. Additionally, the endangered Hawaiian petrel (*Pterodroma sandwichensis*), the Hawai‘i distinct population segment of the band-rumped storm-petrel (*Oceanodroma castro*), and the threatened Newell’s shearwater (*Puffinus auricularis newelli*) may transit the project area flying to upland breeding colonies.

**Hawaiian hoary bat:** The Hawaiian hoary bat roosts in woody vegetation across all islands and will leave their young unattended in trees and shrubs when they forage. If trees or shrubs 15 feet (ft) or taller are cleared during the pupping season, June 1 through September 15, there is a risk that young bats could inadvertently be harmed or killed, since they are too young to fly or may not move away from disturbance. Additionally, Hawaiian hoary bats forage for insects from as low as 3 ft to higher than 500 ft above the ground and can become entangled in barbed wire used for fencing.

To avoid and minimize impacts to the endangered Hawaiian hoary bat we recommend you incorporate the following applicable measures into your Plan:

- Do not disturb, remove, or trim woody plants greater than 15 ft tall during the bat birthing and pup-rearing season (June 1 through September 15).
- Do not use barbed wire for fencing.

**Maunakea Silversword:** Project activities may affect listed plant species by causing physical damage to plant parts (roots, stems, flowers, fruits, seeds, etc.) as well as impacts to other life requisite features of their habitat which may result in reduction of germination, growth and/or reproduction. Cutting and removal of vegetation surrounding listed plants has the potential to alter microsite conditions (e.g., light, moisture, temperature), damaging or destroying the listed plants and also increasing the risk of invasion by nonnative plants which can result in higher incidence or intensity of fire. Activities such as grazing, use of construction equipment and vehicles, and increased human traffic (i.e., trails, visitation, monitoring), can cause ground disturbance, erosion, and/or soil compaction which decrease absorption of water and nutrients and damage plant root systems and may result in reduced growth and/or mortality of listed plants. Soil disturbance or removal has the potential to negatively impact the soil seed bank of listed plant species if such species are present or historically occurred in the project area.

In order to avoid or minimize potential adverse effects to listed plants that may occur on the proposed project site, we recommend minimizing disturbance outside of existing developed or otherwise modified areas. When disturbance outside existing developed or modified sites is proposed, conduct a botanical survey for listed plant species within the project action area, defined as the area where direct and indirect effects are likely to occur. Surveys should be conducted by a knowledgeable botanist with documented experience in identifying native Hawaiian and Pacific Islands plants, including listed plant species. Botanical surveys should optimally be conducted during the wettest part of the year (typically October to April) when plants and identifying features are more likely to be visible, especially in drier areas. If surveys are conducted outside of the wet season, the Service may assume plant presence.
The boundary of the area occupied by listed plants should be marked with flagging by the surveyor. To avoid or minimize potential adverse effects to listed plants, we recommend adherence to buffer distances for the activities in the Table below. Where disturbed areas do not need to be maintained as an open area, restore disturbed areas using native plants as appropriate for the location. Whenever possible we recommend using native plants for landscaping purposes. The following websites are good resources to use when choosing landscaping plants: Landscape Industry Council of Hawai‘i Native Plant Poster (http://hawaiiscapes.wpengine.com/publications/), Native Hawaiian Plants for Landscaping, Conservation, and Reforestation (https://www.ctahr.hawaii.edu/oc/freepubs/pdf/of-30.pdf), and Best Native Plants for Landscapes (https://www.ctahr.hawaii.edu/oc/freepubs/pdf/OF-40.pdf).

If listed plants occur in a project area, the avoidance buffers are recommended to reduce direct and indirect impacts to listed plants from project activities. However, where project activities will occur within the recommended buffer distances, additional consultation is required. The impacts to the plants of concern within the buffer area may be reduced by placing temporary fencing or other barriers at the boundary of the disturbance, as far from the affected plants as practicable.

The above guidelines apply to areas outside of designated critical habitat. If project activities occur within designated critical habitat unit boundaries, additional consultation is required. All activities, including site surveys, risk introducing nonnative species into project areas. Specific attention needs to be made to ensure that all equipment, personnel and supplies are properly checked and are free of contamination (weed seeds, organic matter, or other contaminants) before entering project areas. Quarantines and or management activities occurring on specific priority invasive species proximal to project areas need to be considered or adequately addressed. This information can be acquired by contacting local experts such as those on local invasive species committees (island of Hawai‘i: https://www.biisc.org/).

Table. Recommended buffer distances to minimize and avoid potential adverse impacts to listed plants from activities listed below.

<table>
<thead>
<tr>
<th>Action</th>
<th>Buffer Distance (feet (meters)) - Keep Project Activity This Far Away from Listed Plant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grasses/Herbs/Shrubs and Terrestrial Orchids</td>
<td></td>
</tr>
<tr>
<td>Walking, hiking, surveys</td>
<td>3 ft (1 m)</td>
</tr>
<tr>
<td>Cutting and Removing Vegetation By Hand or Hand Tools (e.g., weeding)</td>
<td>3 ft (1 m)</td>
</tr>
<tr>
<td>Mechanical Removal of Individual Plants or Woody</td>
<td>3 ft up to height of removed vegetation (whichever greater)</td>
</tr>
<tr>
<td>Vegetation (e.g., chainsaw, weed eater)</td>
<td>vegetation (whichever greater)</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Removal of Vegetation with Heavy Equipment (e.g., bulldozer, tractor, &quot;bush hog&quot;)</td>
<td>2x width equipment + height of vegetation</td>
</tr>
<tr>
<td>Ground-based Spray Application; hand application (no wand applicator; spot treatment)</td>
<td>10 ft (3 m) Crown diameter</td>
</tr>
<tr>
<td>Ground-based Spray Application; manual pump with wand, backpack</td>
<td>50 ft (15 m) Crown diameter</td>
</tr>
<tr>
<td>Ground-based Spray Application; vehicle-mounted tank sprayer</td>
<td>50 ft (15 m) Crown diameter</td>
</tr>
<tr>
<td>Aerial Spray (ball applicator)</td>
<td>250 ft (76 m) 250 ft (76 m)</td>
</tr>
<tr>
<td>Aerial Application – herbicide ballistic technology (individual plant treatment)</td>
<td>100 ft (30 m) Crown diameter</td>
</tr>
<tr>
<td>Aerial Spray (boom)</td>
<td>Further consultation required</td>
</tr>
<tr>
<td>Further consultation required</td>
<td>Further consultation required</td>
</tr>
<tr>
<td>Use of Insecticides (pollinators, seed dispersers)</td>
<td>Further consultation required</td>
</tr>
<tr>
<td>Ground/Soil Disturbance/Outplanting/Fencing (Hand tools, e.g., shovel, ‘ō‘ō; Small mechanized tools, e.g., auger)</td>
<td>20 ft (6 m) 2x crown diameter</td>
</tr>
<tr>
<td>Ground/Soil Disturbance (Heavy Equipment)</td>
<td>328 ft (100 m) 820 ft (250 m)</td>
</tr>
<tr>
<td>Surface Hardening/Soil compaction</td>
<td>20 ft (6 m) 2x crown diameter</td>
</tr>
<tr>
<td>Trails (e.g., human, ungulates)</td>
<td>328 ft (100 m) 820 ft (250 m)</td>
</tr>
<tr>
<td>Roads/Utility Corridors, Buildings/Structures</td>
<td>Further consultation required</td>
</tr>
<tr>
<td>Prescribed Burns</td>
<td>Further consultation required</td>
</tr>
</tbody>
</table>
Definitions (Wagner et al. 1999)
Crown: The leafy top of a tree.
Herb: A plant, either annual, biennial, or perennial, with the non-woody stems dying back to the ground at the end of the growing season.
Shrub: A perennial woody plant with usually several to numerous primary stems arising from or relatively near the ground.
Tree: A woody perennial that usually has a single trunk

Hawaiian petrel, Newell’s shearwater, and Hawai‘i distinct population segment of the band-rumped storm petrel: Hawaiian seabirds may traverse the project area at night during the breeding, nesting and fledging seasons (March 1 to December 15). Outdoor lighting could result in seabird disorientation, fallout, and injury or mortality. Seabirds are attracted to lights and after circling the lights they may become exhausted and collide with nearby wires, buildings, or other structures or they may land on the ground. Downed seabirds are subject to increased mortality due to collision with automobiles, starvation, and predation by dogs, cats, and other predators. Young birds (fledglings) traversing the project area between September 15 and December 15, in their first flights from their mountain nests to the sea, are particularly vulnerable to light attraction.

To avoid and minimize potential project impacts to seabirds we recommend you incorporate the following applicable measures into your Plan:
- Fully shield all outdoor lights so the bulb can only be seen from below.
- Install automatic motion sensor switches and controls on all outdoor lights or turn off lights when human activity is not occurring in the lighted area.
- Avoid nighttime construction during the seabird fledging period, September 15 through December 15.

Palila: Hawaiian forest birds’ current ranges are predominately restricted to montane forests above 3,500 ft in elevation due to habitat loss and threats at lower elevations. Hawaiian forest bird habitat has been lost due to development, agriculture, grazing, wildfire, and spread of invasive habitat-altering species. Forest birds are also affected by mosquito-borne diseases. Mosquitoes are not native to Hawai‘i; their occurrence increases in areas where ungulate presence results in small pools of standing water. Actions such as road construction and development increase human access and result in increased wildfire and invasive species threats. Grazing results in reductions in woody vegetation and increased grass cover, which reduces forest habitat quality and results in increased wildfire risk on the landscape.

Avoid conducting activities within forest bird habitat that:
- Promote the spread or survival of invasive species.
- Increase mosquito populations or stagnant water habitat.
- Increase wildfire threat to montane forest habitats.
- Remove tree cover during the peak breeding season between January 1 and June 30.
**Palila Critical Habitat:** The palila was listed as endangered in 1967 and critical habitat was designated for palila on Maunakea in 1977 (U.S. Fish and Wildlife Service [USFWS] 1977). Palila habitat has been lost due to development, agriculture, grazing, wildfire, and spread of invasive habitat-altering species. An increased risk of accidental wildland fire ignition along the Maunakea access road, where a fire burning under dry, windy conditions could impact palila, listed plants, or palila critical habitat, should be addressed in your Plan.

**Fire:** We recommend you follow the best management practices as they relate to fire outlined in the Maunakea Comprehensive Management Plan (Office of Maunakea Management 2021) and associated sub-plans, and educate contractors about fire prevention. Potential sources of ignition related to vehicle traffic include vehicle accidents, improperly disposed cigarettes and matches, and sparks from automobile catalytic converters on unpaved roads.

**Biosecurity and Invasive Species:** We are attaching our list of Biosecurity Protocols to prevent the introduction and spread of harmful invasive species on the island of Hawai‘i. We encourage you to incorporate the relevant measures into your Plan and include these into all contracts for construction and maintenance projects associated within the scope of the Plan.

The Service recommends incorporating all applicable avoidance and minimization measures into your Plan to avoid and minimize effects on protected species. If you determine the proposed project may affect federally listed species, we recommend you contact our office early in the planning process so that we may assist you with ESA compliance.

Thank you for the opportunity to comment and for participating with us in the protection of our endangered species. If you have any questions, please contact Eldridge Naboa at Eldridge_Naboa@fws.gov or by telephone at 808-284-0037. When referring to this project, please include this reference number: 01EPIF00-2022-TA-0016.

Sincerely,

Acting Island Team Manager
Maui Nui and Hawai‘i Island

Enclosure: Biosecurity Protocol – Hawai‘i Island (July 2018)

**LITERATURE CITED**


BIOSECURITY PROTOCOL – HAWAI‘I ISLAND (JULY 2018)

The following biosecurity protocol (based on National Park Service, State of Hawai‘i, U.S. Fish and Wildlife, U.S. Geological Survey, and the DOI Office of Native Hawaiian Relations guidance) should be followed when operating on Hawai‘i Island to prevent the introduction of harmful invasive species including frogs, ants, weeds, and fungi into local natural areas (e.g., Hawai‘i Volcanoes National Park, Hakalau Forest National Wildlife Refuge, State of Hawai‘i “Natural Areas”) and areas with native habitat (habitat that is primarily composed of native vegetation), other islands in Hawaiian archipelago, or the U.S. mainland. The protocol also includes suggestions for keeping field staff safe from certain invasive species.

1. All work vehicles, machinery, and equipment should be cleaned, inspected by its user, and found free of mud, dirt, debris and invasive species prior to entry into the natural areas or native habitat.
   a. Vehicles, machinery, and equipment must be thoroughly pressure washed in a designated cleaning area and visibly free of mud, dirt, plant debris, insects, frogs (including frog eggs) and other vertebrate species such as rats, mice and non-vegetative debris. A hot water wash is preferred. Areas of particular concern include bumpers, grills, hood compartments, areas under the battery, wheel wells, undercarriage, cabs, and truck beds (truck beds with accumulated material (intentionally placed or fallen from trees) are prime sites for hitchhikers).
   b. The interior and exterior of vehicles, machinery, and equipment must be free of rubbish and food. The interiors of vehicles and the cabs of machinery must be vacuumed clean. Floor mats shall be sanitized with a solution of >70% isopropyl alcohol or a freshly mixed 10% bleach solution.
   c. Any machinery, vehicles, equipment, or other supplies found to be infested with ants (or other invasive species) must not enter natural areas or native habitat. Treatment is the responsibility of the equipment or vehicle owner and operator.

2. Little Fire Ants – All work vehicles, machinery, and equipment should be inspected for invasive ants prior to entering the natural areas or native habitat.
   a. A visual inspection for little fire ants should be conducted prior to entry into natural areas or native habitat.
   b. Hygiene is paramount but even the cleanest vehicle can pick up a little fire ant. Place MaxForce Complete Brand Granular Insect Bait (1.0% Hydramethylnon; http://littlefireants.com/Maxforce%20Complete.pdf) into refillable tamper resistant bait stations. An example of a commercially available refillable tamper resistant bait station is the Ant Café Pro (https://www.antcafe.com/). Place a bait station (or stations) in vehicle. Note larger vehicles, such as trucks, may require multiple stations. Monitor bait stations frequently (every week at a minimum) and replace bait as needed. If the station does not have a sticker to identify the contents, apply a sticker listing contents to the station.
   c. Any machinery, vehicles, equipment, or other supplies found to be infested with ants (or other invasive species) must not enter natural areas or native habitat until it is sanitized and re-tested.
following a resting period. Infested vehicles must be sanitized following recommendations by
the Hawaii Ant Lab (http://www.littlefireants.com/) or other ant control expert and in accordance
with all State and Federal laws. Treatment is the responsibility of the equipment or vehicle
owner.

d. Gravel, building materials, or other equipment such as portable buildings should be baited
using MaxForce Complete Brand Granular Insect Bait (1.0% Hydramethylnon;
http://littlefireants.com/Maxforce%20Complete.pdf) or AmdroPro (0.73% Hydramethylnon;

e. Storage areas that hold field tools, especially tents, tarps, and clothing should be baited using
MaxForce Complete Brand Granular Insect Bait (1.0% Hydramethylnon;
http://littlefireants.com/Maxforce%20Complete.pdf) or AmdroPro (0.73% Hydramethylnon;

3. Base yards and staging areas inside and outside areas must be kept free of invasive
species.
a. Base yards and staging areas should be inspected at least weekly for invasive species and any
found invasive removed immediately. Pay particular attention to where vehicles are parked
overnight, keeping areas within 10-meters of vehicles free of debris. Parking on pavement and
not under trees, while not always practical is best.

b. Project vehicles or equipment stored outside of a base yard or staging area, such as a private
residence, should be kept in a pest free area.

4. All cutting tools must be sanitized to prevent the Rapid ‘Ōhi’a Death (ROD) fungus.
a. Avoid wounding ‘ōhi’a trees and roots with mowers, chainsaws, weed eaters, and other tools.
Cut only the minimum amount of trees and branches as approved for the project.

b. All cutting tools, including machetes, chainsaws, and loppers must be sanitized to remove
visible dirt and other contaminants prior to entry into natural areas or areas with native habitat,
and when moving to a new project area within the native habitat area. Tools may be sanitized
using a solution of >70% isopropyl alcohol or a freshly mixed 10% bleach solution. One minute
after sanitizing, you may apply an oil based lubricant to chainsaw chains or other metallic parts
to prevent corrosion.

c. Only dedicated tools and chainsaws should be used to sample known or suspected ROD
infected trees.

d. Vehicles, machinery, and equipment must be cleaned as described in (1) above.

5. Imported firewood, logs, and ‘ōhi’a parts:
a. ‘Ōhi’a firewood, ‘ōhi’a logs, and ‘ōhi’a parts should not be transported.
6. For individuals working in the field:
   a. **Before going into the field**, visually inspect and clean your clothes, boots, pack, radio harness, tools, and other personal gear and equipment, for seeds, soil, plant parts, insects, and other debris. A small brush is handy for cleaning boots, equipment and gear. Soles of shoes should be sanitized using a solution of >70% isopropyl alcohol or a freshly mixed 10% bleach solution.

   b. **Immediately before leaving the field**, visually inspect and clean your clothes, boots, pack, radio harness, tools, and other personnel gear and equipment, for seeds, soil, plant parts, insects, and other debris. Soles of shoes should be sanitized using a solution of >70% isopropyl alcohol or a freshly mixed 10% bleach solution.

   c. **Little fire ants nest in trees.** If you are under a tree and that tree is bumped or somehow stressed, the threat response of the ants is to fall from the leaves and sting the person under the tree. If you are subject to an ant attack, do not panic. The ants are extremely small but their stings are painful so make sure you remove all ants from your body and clothing. The stings cause inch long welts that are itchy and painful, and can last for weeks. Treat stings as you would other insect stings. In some persons stings can produce life threatening reactions. Stocking antihistamine in the first aid kit is a reasonable precaution.

   d. **Rat Lungworm disease** is caused by a parasite that can infect humans who consume raw or undercooked infected snails or slugs or consume raw produce that contains a small infected snail or slug. Infection is rare but can be serious. Symptoms can include severe headache, neck stiffness, low grade fever, nausea, and vomiting anywhere from 1-6 weeks after exposure. The disease is not spread person to person. Anyone who handles snails or slugs should wear gloves and/or wash hands. Eating unwashed produce is discouraged.
Good morning Mr. Chun,

I recently received your Stakeholder letter requesting input and comments regarding the Public Draft Master Plan for the University of Hawai‘i Maunakea Lands: E Ō I Ka Leo, dated Sept. 10, 2021 with comments due Oct. 26th.

Thank you for reaching out and allowing me the opportunity to provide information about the Mauna Kea National Natural Landmark (NNL) designation. Mauna Kea was designated an NNL in 1972 by Department of Interior Secretary, Rogers C.B. Morton. NNL designations are honorific and NOT regulatory. The NNL Program is administered by the National Park Service (NPS), but most landmarks are NOT units of the NPS. NNLs are designated as outstanding examples of geologic and/or biologic resources. In the case of Maunakea, the NNL significance statement for the landmark reads:

"Few sites possess better credentials to justify their national significance than does Mauna Kea. First, it is the exposed portion of the highest insular mountain in the United States, standing more than 30,000 feet above its submerged base at the bottom of the Pacific. Second, on its summit slopes is found the highest lake in the United States. Thirdly, though located in the tropics, indisputable evidence of glaciations is present above the 11,000-foot level. Additionally, and possibly transcending all of these qualifications, is the fact that Mauna Kea is the most majestic expression of shield volcanism in the Hawaiian Archipelago, if not the world."

Upon looking over the Draft Master Plan, I did not see mention of the Mauna Kea NNL designation. Again, it is an honorific designation recognizing the outstanding natural resources that Maunakea processes. In reaching out to you today, I simply wanted to make the Center for Maunakea Stewardship aware of the NNL designation. I do not have specific comments regarding the Master Plan -- which seems sensitive and protective of the of the Maunakea natural and cultural resources.

I have attached the Mauna Kea Landmark Brief, the NNL Mauna Kea boundary map and our NNL Program At a Glance one-pager that might answer additional questions should you have any.

Kindly,
Laurie Lee Jenkins

--

Laurie Lee Jenkins
Laurie_Lee_Jenkins@nps.gov
360-305-9187 (work cell)
Awaken with aloha and truth.

October 26, 2021

FR: E. Kalani Flores, representing the Flores-Case ‘Ohana (08ef80@gmail.com)

RE: Written Comments for Draft Master Plan for the University of Hawai‘i Maunakea Lands

INTRODUCTION

GENERAL COMMENTS

I. UH continues a pattern of not listening

II. UH exemplifies unethical cultural appropriation

III. UH fails to acknowledge issues with its management

IV. UH fails to uphold its statutory and constitutional obligations

V. UH fails to be in compliance with its management plans

VI. Adverse impacts upon the sacred piko and resources of Mauna a Wākea

VII. Adverse impacts upon ancestral akua, kupua, and kupuna

VIII. Adverse impacts upon cultural resources and historic sites

IX. Adverse impacts upon Kanaka Maoli customary and traditional practices

SPECIFIC COMMENTS

CONCLUDING REMARKS
INTRODUCTION

The Flores-Case ‘Ohana provides the following comments regarding the Draft Master Plan for the University of Hawai‘i Maunakea Lands (‘draft plan’). However, due to insufficient time of only 45 days to examine this extensive draft plan and also provide comments, we weren’t able to conduct a comprehensive review and provide a complete compilation of comments. Despite us submitting comments to the University of Hawai‘i (UH) Board of Regents (BOR), Maunakea Management Board (MKMB), and Office of Mauna Kea Management (OMKM) on several occasions pertaining to Mauna a Wākea as well being a petitioner in two contested case hearings pertaining to the Thirty Meter Telescope (TMT), the University of Hawai‘i (UH) failed to contact us and other Kanaka Maoli (aka Native Hawaiian) cultural practitioners during the initial process of drafting this plan several months ago. We were only contacted by email on October 14th at the ‘eleventh hour’ when comments were due on October 26th. This extremely late attempt at contact is perceived more as an afterthought or as a formality to state that consultation was attempted. There are no excuses why we and other cultural practitioners and kia‘i were not contacted earlier when the UH system, governmental agencies, elected officials, astronomy organizations, commercial tour operators, etc. were given the opportunity to review earlier pre-publication versions of this draft plan.¹ Furthermore, the UH President and Board of Regents Chair stated in their opening letter in this draft plan, “A concerted, but ultimately unsuccessful, effort was made to discuss the restructuring alternatives with Hawai‘i Island kia‘i.”² These types of false statements in which no concerted effort was actually made results in the loss of confidence and credibility with the UH leadership amongst the community. The UH needs to comprehend that Kanaka Maoli are not just Stakeholders, but are actually “Right Holders” as it pertains to the natural and cultural resources of Mauna a Wākea.

GENERAL COMMENTS

I. UH continues a pattern of not listening

The title for this draft master plan, E Ō I Ka Leo (Listen to the Voice), is in contradiction to how this plan was drafted with the narratives systematically ignoring decades of community and Native Hawaiian concerns and comments regarding the issues surrounding the mismanagement of Mauna a Wākea by the University of Hawai‘i (UH). This same issue was also identified in the Mauna Kea Science Reserve Master Plan (“2000 Master Plan”). Firstly, the voice of the Mauna Kea Observatories is clearly the overriding voice throughout this

¹ See: Appendix A - Summary of Outreach and Consultation
² The University Of Hawai‘i Commitment To Collaborative Maunakea Stewardship, p.2

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draft plan. Whereas, the voices of Kanaka Maoli (Native Hawaiian) cultural practitioners were excluded during the initial process of drafting this plan. Perhaps this draft plan should more accurately be called, *Hoʻokuli I Nā Leo* (Deaf to the Voices).

**II. UH exemplifies unethical cultural appropriation**

This draft plan is a prime example of unethical cultural appropriation and exploitation of Hawaiian culture through the distortion, and misuse of traditional knowledge, cultural expressions, and Hawaiian terms. The *Foreword* [pp. x-xiv] has taken ʻōlelo noʻeau and clearly distorted the meanings of these traditional sayings outside of their original cultural context. There is an attempt to promote astronomy and further development on Mauna a ʻWākea through a western worldview cloaked under these Hawaiian sayings. In addition, Hawaiian phrases and terms are peppered throughout this document in an attempt to give an illusion that this is a Hawaiian plan and to make it more palatable to Hawaiians. These displays of misappropriation of Hawaiian cultural elements are disrespectful and are also considered a form of desecration. Likewise, as noted in UH Mānoa’s guidelines, “Cultural appropriation is a form of intellectual plagiarism.”¹ As an institution of higher learning, the UH administration and programs should be held to the same strict ethical standards it expects of their students.

**III. UH fails to acknowledge issues with its management**

In this draft master plan, the UH failed to acknowledge and formally apologize for their role as the lessee of the Mauna Kea lands that has resulted in cumulative impacts upon its resources that have been determined to be substantial, significant, and adverse. Unlike the 2000 Master Plan, this draft plan doesn’t identify and assess past and existing issues connected with UH’s management of Mauna a ʻWākea. Environmental impact statements previously done for the proposed NASA outrigger project and Thirty Meter Telescope (TMT) have outlined these cumulative impacts. In addition, previous State Audits have been critical of UH’s mismanagement of these public lands. If the UH wants to truly reconcile its past actions, it needs to disclose, accept responsibility, and admit the existence of its past mismanagement actions. This should be followed with a sincere apology to Kanaka Maoli and all those connected to Mauna a ʻWākea. Furthermore, it’s pertinent that UH acknowledge the history of these lands as being Government Lands of the Kingdom of Hawai‘i since the time of the Mahele in 1848.

Thorough examination of the UH’s own documents disclose that,

> From a cumulative perspective, the impact of past and present actions on cultural, archaeological, and historic resources is substantial, significant, and adverse...

³ [Ethics, Research Integrity & Cultural Appropriation](https://kahualike.manoa.hawaii.edu/horizons/publication_ethics.html)

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The cumulative impact of past and present actions to geological resources in the astronomy precinct has been substantial, significant, and adverse... (TMT FEIS, p. S-8)

Fostering a future of healing and reconciliation requires the UH leadership to truthfully and respectfully acknowledge the past. It is only through understanding and accepting the wrongs of the past, and the often intergenerational impacts of these wrongs, that UH can make adequate amends for these past impacts and ensure that they are never repeated. Instead of acknowledging and apologizing for such actions, UH plans to continue on with such activities and now has developed a mantra of “coexistence.”

IV. UH fails to uphold its statutory and constitutional obligations

The UH continues to fail their affirmative duty and legal obligations to protect the natural and cultural resources, public land trust, and rights of the public and Kanaka Maoli connected with Mauna a Wākea. The over emphasis of the promotion of astronomy development and activities has overshadowed the protection of the afore-mentioned in this draft plan.

Notwithstanding four state audits and community members and organizations, including Kanaka Maoli, expressing concern and providing testimony dating back to the 1970’s about the adverse impacts and threats to Mauna Kea, the State and the UH have continuously neglected their legal duties resulting in over 50 years of mismanaging this revered and sacred mountain. Instead, they have prioritized astronomical development at the expense of properly caring for Mauna a Wākea’s natural and cultural resources. In addition, they have taken adversary positions and actions against Kanaka Maoli cultural practitioners which have resulted in detrimental impacts upon Kanaka Maoli and their cultural practices and traditions. This plan does very little to change such adverse impacts.

It’s very evident that UH’s role to advance astronomy on Mauna a Wākea, conflicts with its ability to properly manage these environmentally and culturally sensitive resources of a public lands trust. The existing process has been politically driven to push through astronomical development on this majestic mountain by systematically ignoring community and Kanaka Maoli concerns resulting in the overdevelopment of this conservation district. Conclusively, the authority and management of the lands of Mauna a Wākea which are part of the public land trust, also considered government lands of the Kingdom of Hawaiʻi, should be turned over to a Native Hawaiian entity other than the UH which has an inherent conflict of interest.
V. UH fails to be in compliance with its management plans

Before UH approves a master plan for those lands that include the Mauna Kea Science Reserve (MKSR) and the mid-level facilities at Hale Pōhaku, the UH should ensure it’s in compliance with the BLNR approved management plans and conditions of the Conservation District rules. Also, it’s important to maintain compatibility and consistency between this draft plan and previously approved management plans. In addition, this draft plan fails to enforce UH’s compliance with these management plans.

Highlighted below are examples of the UH’s non-compliance with the Mauna Kea Comprehensive Management Plan (CMP), associated sub-plans, and 2000 Master Plan.

1. Firstly, UH/OMKM’s non-compliance with the CMP management actions that are identified as “CMP Monitoring, Evaluating and Updating” is very evident as noted below:

   MEU-1: UH/OMKM have failed to inform the public of “results of management activities in a timely manner.”

   MEU-2: UH/OMKM have failed to regularly review and update the CMP and sub-plans that were required in order to be in compliance with the rules of the Conservation District. The CMP was submitted to and approved by the BLNR on April 9, 2009. In addition, it’s been over a decade and UH/OMKM have failed to complete the five-year major review of this plan that was due by April 2014 as stipulated in the CMP. Section 7.4.2 of the CMP outlines the requirements and process for monitoring, evaluating, and updating this plan as noted below.

   Regular monitoring and evaluation of the CMP is needed to determine if management actions are effective over time and are meeting management needs, and to ensure that the best possible protection is afforded Mauna Kea’s resources.

   Monitoring and evaluation of the effectiveness of the CMP should occur annually, and an annual progress report should be prepared. A major review and revision of the CMP should occur every five years, using information contained in the annual reports. Five-year evaluation and revision should include consultation with federal and state agencies and the local community, to inform stakeholders on program progress, and to gather input on changes or additions to management activities. The CMP must also be updated to comply with any requirements or conditions imposed by the BLNR on the CMP upon acceptance of the plan. (CMP at 7-64)

The requirement for UH to conduct a “major review every five years” is further reiterated in the CMP Implementation Plan (CMP IP) (2010) as outlined below:

4.2.2 Five-Year Management Outcome Analysis and CMP Revision The OMKM program should be subjected to a major review every five years, and the CMP should be
revised, as necessary. This process should involve input from State and Federal agencies and the public. (CMP IP at 17).

2010 Annual Plan to the BLNR, Status of the Implementation of the Mauna Kea CMP (pp. B-12, C-12)

2015 Annual Plan to the BLNR, Status of the Implementation of the Mauna Kea CMP

2020 Annual Plan to the BLNR, Status of the Implementation of the Mauna Kea CMP

Furthermore, the UH BOR has failed to enforce UH’s compliance with these significant management actions of the CMP even though these actions were identified in OMKM’s Annual Plans that have been compiled since 2010.
2. UH has failed to implement and complete several significant components of these management action plans that required immediate implementation. The CMP identified specific management actions in order to protect the natural and cultural resources on Mauna a Wākea.

OMKM was tasked with directly overseeing and implementing the management actions identified in the CMP Implementation Plan (2010). However, there were several significant management actions that were originally listed in the 2009 timeframe as Immediate (1-3 years) and Short-term (4-6 years) that have not yet been implemented and accomplished.

Subsequently, OMKM changed their reporting methods assigned to the progress status definitions. This resulted in having the existing CMP status reports being submitted annually to BLNR for review without any definitive dates listed for the implementation of these management actions that in many cases are considered crucial in the protection of Mauna a Wākea’s natural and cultural resources. In addition, the information included in the CMP status reports have been inaccurate or incomplete at times.

One such example of these incomplete management actions is FLU-2 in which UH was required to develop “land use zones” in the Astronomy Precinct based on updated cultural and natural resource information that would “delineate areas where future land use will not be allowed and areas where future land use will be allowed”. The following description outlines the significance and goal of completing management action FLU-2 Land use zones:

Any potential future observatories will be located inside the Astronomy Precinct. The goal of this process is to refine telescope siting areas defined in the 2000 Master Plan based on updated cultural and natural resource information (see Section 7.1.1 and Section 7.1.2). Land use zones will be developed that will delineate areas where future land use will not be allowed and areas where future land use will be allowed, but where compliance with prerequisite studies or analyses prior to approval of a CDUP, will be required. When assessing proposed infrastructure expansion, additional consideration will be given to the location of current infrastructure and previously disturbed areas (see Section 7.3.1). New land uses should be located close to existing infrastructure or previously disturbed areas, to reduce impacts on undisturbed areas and to minimize unnecessary damage to geological features. As stated in the 2000 Master Plan, all major undeveloped cinder cones and their intervening areas will be protected from future development by astronomical or other interests.
These include the following pu‘u: Ala, Hoaka, Kūkahau’ula, Līlīnoe, Māhoe, Mākanaka, Poepeo, Poli‘ahu, and Ula. (CMP at 7-57 to 7-58)

This is a prime example of a management action that was initially identified for “Immediate” implementation, but was later changed to “Ongoing.” Later in the BLNR 2015 Annual Report submitted by the OMKM, FLU-2 was still not implemented as required. As noted, “This was originally listed for Immediate implementation. However, this task will require additional data gathered from baseline surveys of the resources.” Then in the BLNR 2020 Annual Report, it clearly exhibits that this management action still wasn’t completed. Instead, there’s only a convoluted comment implying that UH/OMKM doesn’t intend on completing this significant aspect of the CMP.

<table>
<thead>
<tr>
<th>Facility Planning Guidelines</th>
<th>CONSIDERATION OF FUTURE LAND USE</th>
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<tbody>
<tr>
<td>FLU-1 Follow design guidelines presented in the 2000 Master Plan.</td>
<td>As needed</td>
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<tr>
<td>FLU-2 Develop a map with land-use zones in the Astronomy Precinct based on updated inventories of cultural and natural resources, to delineate areas where future land use will not be allowed and areas where future land use will be allowed but will require compliance with prerequisite studies or analysis prior to approval of Conservation District Use Permit.</td>
<td>Immediate</td>
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2010 Annual Plan to the BLNR, Status of the Implementation of the Mauna Kea CMP

<p>| COMPONENT PLAN: MANAGING THE BUILT ENVIRONMENT |</p>
<table>
<thead>
<tr>
<th>Implementation Schedule</th>
<th>Comments</th>
<th>Sub Plans</th>
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</thead>
<tbody>
<tr>
<td>CONSIDERATION OF FUTURE LAND USE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FLU-1 Follow design guidelines presented in the 2000 Master Plan.</td>
<td>Ongoing</td>
<td>The Design Review Process, which incorporated the 2000 Master Plan’s design guidelines, are being used in the review of the Thirty Meter Telescope project</td>
</tr>
<tr>
<td>FLU-2 Develop a map with land-use zones in the Astronomy Precinct based on updated inventories of cultural and natural resources, to delineate areas where future land use will not be allowed and areas where future land use will be allowed but will require compliance with prerequisite studies or analysis prior to approval of Conservation District Use Permit.</td>
<td>Short-Term</td>
<td>This was originally listed for Immediate implementation. However, this task will require additional data gathered from baseline surveys of the resources.</td>
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2015 Annual Plan to the BLNR, Status of the Implementation of the Mauna Kea CMP

<p>| COMPONENT PLAN: MANAGING THE BUILT ENVIRONMENT |</p>
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<tr>
<th>Implementation Status</th>
<th>Comments</th>
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<tr>
<td>CONSIDERATION OF FUTURE LAND USE</td>
<td></td>
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<tr>
<td>FLU-1 Follow design guidelines presented in the 2000 Master Plan.</td>
<td>Ongoing</td>
</tr>
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<td>FLU-2 Develop a map with land-use zones in the Astronomy Precinct based on updated inventories of cultural and natural resources, to delineate areas where future land use will not be allowed and areas where future land use will be allowed but will require compliance with prerequisite studies or analysis prior to approval of Conservation District Use Permit.</td>
<td>Ongoing</td>
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2020 Annual Plan to the BLNR, Status of the Implementation of the Mauna Kea CMP

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In order to protect the natural and cultural resources on Mauna Kea, UH should implement these incomplete requirements and other significant management actions dating back to 2009 and should incorporate them in this draft plan.

3. **UH has failed to implement and complete the significant CMP/CRMP management action that required regular consultation and engagement with Native Hawaiians to protect their rights and practices associated with Mauna a Wākea.**

UH has drastically failed to engage and consult with the broader Native Hawaiian community beyond Kahu Kū Mauna and the Hawaiian Culture Committee (which is either inactive or has been terminated). Guidance into this matter is outlined in the CMP and CRMP (p. 5-9 to 5-10) as such (emphasis underlined):

5.3 ON-GOING CONSULTATION WITH THE KAHU KU MAUNA COUNCIL AND THE HAWAIIAN CULTURE COMMITTEE

Preservation planning recognizes the need to continue the process of consulting with the major stakeholders. A mechanism for accomplishing this goal with the astronomy community already exists in the form of regular meetings with OMKM. Periodic reviews of the CRMP would involve all of the stakeholders. In view of all of the unresolved issues pertaining to cultural practices, it is the Native Hawaiian community that needs to be consulted on a frequent basis. Some of this is presently occurring with the Kahu Kū Mauna Council and the Hawaiian Culture Committee, but it will be broadened to include more of the Hawaiian community. (emphasis added)

Management Actions

It is recommended that UH consult with Native Hawaiian organizations and individuals on existing policies and proposed new policies. Two specific recommendations are presented in Table 5-3.

<table>
<thead>
<tr>
<th>Table 5.3. Management Actions for On-Going Consultation with Native Hawaiians.</th>
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<tbody>
<tr>
<td>● Develop a mechanism to assure that Kahu Kū Mauna is consulted on individual development projects.</td>
</tr>
<tr>
<td>● Provide a list of individuals, families, or organizations who should be consulted when individual development projects are proposed or when other issues arise that may be a concern.</td>
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</tbody>
</table>

One benefit of compiling a list of organizations and persons that should be consulted is that such a list could accommodate those who are concerned about a
particular place or area but do not wish to disclose its location or the nature of its significance. They could appear on the roster as wanting to be consulted about any planned activity or issue occurring in the general vicinity and then decide if they wish to act on any concerns they have. (emphasis added)

According to the contested case hearing testimony of the OMKM Director, a list of Native Hawaiian individuals, families, organizations and cultural practitioners to be consulted still hadn’t been finalized as of Dec. 2016 despite this action item being identified with the CMP priority of High to Medium. What’s most troubling is that this management action of compiling a list doesn’t take over two decades to finalize. Without such a list, the UH is incapable of consulting and engaging with the broader Native Hawaiian community.

This draft plan fails to identify specific procedures for engaging Kanaka Maoli/Native Hawaiian individuals, families, organizations and cultural practitioners in the consultation process. In fact, the afore-mentioned were explicitly excluded in the consultation process regarding the pre-publication version of this draft plan.

4. **UH’s ineffective management and unlawful actions of its own employees and individuals under their jurisdiction have resulted in adverse impacts upon Mauna Kea’s natural and cultural resources.** UH personnel and OMKM staff have failed to follow the existing rules and protocols as outlined by the CMP. Even though OMKM has morphed into the Center of Maunakea Stewardship (CMS), this draft plan fails to provide an adequate structure for accountability.

Case-in-point, UH personnel (i.e. OMKM, MKSS, etc.) have been directly involved in the destruction and desecration of cultural resources on Mauna a Wākea. In 2013, the archaeological monitor for the geotechnical boring at the proposed TMT site identified cultural items consisting of “the erection of two small upright boulders and placement of a ti leaf bracelet.” It was also reported that these “two upright stones were later dislodged by OMKM staff.” During the second contested hearing for CDUP HA-3568, OMKM staff member testified under cross examination that he was the individual identified in this monitoring report who was involved with this incident. He testified further that he had intentionally knocked down an upright stone associated with Native Hawaiian cultural practices that was near the northern boundary of the proposed TMT site on the northern plateau and that he did not consult with Kahu Kū Mauna prior to taking this action. At that time, he was the cultural monitor working on behalf of OMKM at the site. In

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addition, he disclosed that Mauna Kea Rangers remove *hoʻokupu* and items left on *ahu* even though they do not have the authority to do so. Also, he verified that he was not very familiar with the rules and policies pertaining to the protection of Native Hawaiian cultural practices and resources even though he was initially hired as the cultural advisor to OMKM in 2012.5

In 2015, a Mauna Kea Support Services (MKSS) employee bulldozed an *ahu* (altar) named Ka Uakoko associated with Native Hawaiian cultural practices without any authorization or consultation with the Kahu Kū Mauna cultural advisory group. As it was reported by Hawai‘i News Now, “They dismantled our altar without the right protocol, without even having a cultural person there to walk them through it the right way -- they just grabbed the bulldozer and tossed it off to the side. So yeah, it's very hurtful,” stated JoJo Henderson. “There's cultural protocols that need to be put into effect. There's administrative protocols and they're not following those either. Everytime the chancellor or the president of the university goes out into the community and say that Hawaiian culture 'means something. It is very important. It is significant'. It obviously is not,” said Tiffnie Kakalia, the Kahu Kū Mauna Vice Chair. Kakalia says this incident is just the latest in a string of failures by the UH to consult with Kahu Kū Mauna. “The fact of the matter is the Hawaiian community is not being heard and not being valued, although it is being said that we are,” said Kakalia.

5 Wally Ishibashi Testimony. 11/16/16, Vol. 9 at 135-175.

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Ka Uakoko *ahu* before it was bulldozed off the side of the embankment.

These incidents are only two recent examples that have been documented in detail. It is known that other incidents involving the destruction, desecration, or dismantling of cultural resources associated with Native Hawaiian practices have occurred through the actions of UH personnel.

This draft plan should include guidelines and procedures for the conduct of UH staff and personnel as well as astronomy personnel operating within the lands and resources under UH’s management.

5. **UH failed to follow the concepts, objectives, and standards set forth in the 2000 Mauna Kea Science Reserve Master Plan (2000 Master Plan). This draft plan fails to ensure that UH will be in compliance with this new proposed plan.**

The importance of the implementation of design guidelines is referenced in both the 2000 Master Plan and CMP.

It is important to maintain compatibility and consistency of recommendations between the 2000 Master Plan and the CMP, to ensure that identified facility needs and designs are consistent with the overarching management plan put forth in the CMP (see Section 7.2.1).

There are two aspects of facility planning location and design that need to be considered in order to protect cultural and natural resources. Location refers to the siting of facilities,
while design refers to characteristics of the physical structure, and both of these must be
directed at minimizing impacts to resources. Section XI of the 2000 Master Plan provides
design guidelines to direct development for both renovations of existing facilities and
new construction in a manner that would integrate development into the summit
environment. Topics addressed include: facility siting, scale, height and width, color,
surface texture and material, roofs, fences, roadways and parking. (CMP at 7-56)

The proposed siting of the TMT observatory was clearly not in compliance with the Design
Guidelines and criteria stipulated in the 2000 Master Plan (pp. IX 22-23 as referenced below)
and also referenced in the CMP (p 7-56).

5. Minimum visual impact from significant cultural areas. Views from the pu‘u and
archaeological sites will be respected in the siting of future facilities. The location of new
facilities will avoid interference with the visual connections between the major pu‘u and
the shrine complexes.

6. Avoid or minimize views from Waimea, Honoka‘a and Hilo. Sites for proposed new
facilities will maximize the use of the existing topography to shield views from the
downslope communities. Prominent sites along the ridges or pu‘u will not be selected for
new development of astronomy or other research and education facilities.

7. Close to roads and existing infrastructure. Sites for proposed new development will be
selected close to the existing roadways to minimize the amount of disturbance to the
natural terrain. Utilities and communications service to new sites will be extended along
the existing roadway routes to minimize disturbance.

The non-compliance of the Design Guidelines stipulated in the 2000 Master Plan is noted in the
following areas; 5) Due to the proposed placement and the massive size of the TMT observatory
amongst the shrine complexes on the northern plateau, it will definitely interfere with the visual
connections between the major pu‘u such as Pu‘u Kūkahau‘ula and Pu‘u Poliahu and the
hundreds of shrines at this particular elevation. The CDUA and survey reports have failed to
address this impact. 6) Likewise, from Waimea, Honoka‘a, and other areas, views of the TMT
observatory will be another prominent eyesore and ‘pimple’ on this sacred landscape. A large
population of Native Hawaiians as well as other residents and visitors in these areas will be
impacted with this adverse visual impact. 7) Instead of using the existing roads within the SMA
area, this project intends to cut another new road segment and installation of underground
utilities through the side of Pu‘u Kūkahau‘ula, a wēkiu bug habitat, Traditional Cultural
Property, and designated State Historic Property (SIHP #50-10-23-21438).
In addition, it’s very apparent that the use of the aluminum-like finish for the TMT dome did not adhere to the Design Guidelines in the 2000 Master Plan (pp. XI-6) as noted below. If built, it would not blend into the landscape, but would instead be more reflective and visible from distances near and afar.

Surfaces, Textures and Material: Surfaces, textures and material used for construction in the Science Reserve should seek to blend the facility into the landscape. Selection criteria are as follows:

- As much as possible, surfaces should be non-reflective in the visible spectrum to minimize glare and visibility from distant areas.

Furthermore, the failure to follow these design guidelines should have resulted in the TMT project design not being approved if the 2000 Master Plan was actually being followed:

Plans found to be inconsistent with the Master Plan concepts and objectives shall be rejected. Major variations from development standards shall also be rejected. (MP XI-9)

Consequently, UH’s proposed plans for the TMT project should have been rejected as mandated by the 2000 Master Plan and CMP guidelines. Despite these deficiencies and non-compliance issues this project was ‘rubber-stamped’ for approval. This is another example of the lack of any accountability in this review process.

This draft plan eliminated many significant and relevant design guidelines previously outlined in the 2000 Master Plan pertaining to astronomy facilities. As such, many of the specific and detailed design guidelines from the 2000 Master Plan should be reinstated in this draft plan.

VI. Adverse impacts upon the sacred piko and resources of Mauna a Wākea

The actions of the UH to advance the overdevelopment of astronomical facilities within an environmentally and culturally sensitive landscape has caused adverse impacts and irreparable harm upon the sacred piko as well as the natural and cultural resources of Mauna a Wākea. This draft plan fails to protect the sacred nature of this piko by stripping all references to this aspect that’s been referenced in various accounts. In fact, the 2000 Master Plan included at least 25 references to this mountain’s sacredness. Whereas, this draft plan reduced it to only one flawed reference as such, “for some the mauna is sacred.” The sacredness of this mountain is well known and documented in several traditional accounts.
Mauna a Wākea is the inoa (name) reverberated in chants and by the ancestral guardians connected to this sacred mountain. In English, it literally means, "Mountain of Wākea." It’s within this name that unfolds the understanding of the significance of this mountain. Wākea (Sky Father) is personified in the atmosphere and heavenly realm that envelops Papahānaumoku (Mother Earth). As such, this mountain, unlike any other in the Pacific, pierces above the clouds into the realm of Wākea. It is the tallest mountain in the world over 33,000 feet when measured from the ocean floor to its summit. This mountain is also referred to as “Mauna a Kea”, “Mauna Kea”, or just “Mauna.”

According to ‘ike kupuna, indigenous knowledge and ancestral insight, the top of Mauna a Wākea is one of the three most sacred and significant places on Hawai‘i Island. It is indeed a sacred piko. It is difficult to explain to those who have forgotten or lack an understanding of why such a place as Mauna a Wākea is sacred. The insight and knowledge of Mauna a Wākea as being kapu (sacred) was known from the remote past of the ancient ones. It is for this reason that amongst the countless ancestors of Kanaka Maoli and numerous ali‘i (chiefly) dynasties that lived in these islands, they never built any large heiau (temples) on the summit in this realm that is considered kapu. This is the reason that none of the Mauna Kea archaeological surveys have ever located a traditional man-made structure on the summit. In the times of our ancestors, prior to structures being constructed, one would consult with individuals such as kahuna kuhikuhi pu‘uone who specialized in protocols associated with the selection of such sites. In addition, consultation and direct communication between intermediaries and those of the ancestral realm associated with those places was an essential and integral part of the process so as not to create a physical and/or spiritual disturbance, disconnection, or imbalance between man and his akua, and between man and his environment. We charge that this process of consultation with those recognized as the ancestral akua, kupua, and kupuna of Mauna a Wākea was not done by the BLNR/DLNR, UH, or any astronomy projects built on the mountain.

There are several references in reports such as the Mauna Kea CMP and 2000 Master Plan acknowledging the sacred attributes of the landscape of Mauna a Wākea. A sampling of references from these reports that substantiate the sacredness of this mountain are copied below:

The physical prominence of Mauna Kea as well as its stationing nearest to the heavens holds a spiritual significance for the Hawaiian people, a significance that can be expressed in likening the mountain to a sacred altar. (CMP, p 1-3)

For some Hawaiians, Mauna Kea is so revered that there is no desire to ascend it, no desire to trespass on what is considered sacred space. Simply viewing the tower, the mountain, from afar, both affirms its presence, and reaffirms the sense of connection with both place and personage. For this reason, many Hawaiians feel that activities on Mauna Kea that lead to visible alterations of the landscape not only have a significant effect on
the mountain itself, but also have a damaging effect on everything and everyone that is physically, genealogically, spiritually, and culturally tied to Mauna Kea. (CMP, p 1-4)

The ancient saying “Mauna Kea kuahiwi ku haʻo i ka mālie” (Mauna Kea is the astonishing mountain that stands in the calm) (Pukui 1983: No. 2147), expresses the universal feeling experienced by all who come in contact with this special place. Standing tall over the Island of Hawaiʻi, Mauna Kea is home to vast physical, natural and cultural resources (Figure I-1). From early adze makers to modern day astronomers, Mauna Kea has long been a special place for work, worship, and reflection. For native Hawaiians, both ancient and modern, the feelings for Mauna Kea go beyond wonder and astonishment, to the recognition of the mountain as a sacred domain. These profound feelings of reverence are expressed in the saying: “O Mauna Kea ko kākou kuahiwi laʻa” (Mauna Kea, our sacred mountain). As with other ethnic cultures throughout the world, early Polynesians believed their highest points of land were the most sacred; and Mauna Kea having the highest mountain top in all of Pacific Polynesia, was considered the most sacred place of all. Standing tall over the island if Hawaiʻi, Mauna Kea was host to early Hawaiʻian traditions which included religious practices, study of the heavens, and tool making in the Keanakākoʻi adze quarry. (2000 Master Plan, p I-1)

The greatest obstacle in the protection of sacred places is a lack of understanding of why these places are significant and so special. It has been forgotten when humans interacted with the natural forces and energies of this Earth. Those who have forgotten are products of their social, educational, and/or religious systems. From the modern mindset, most people can recognize the significance of a church building, appreciate the majestic and sacred architecture of a cathedral or synagogue, or be in awe of ancient pyramids and temple structures. However, it seems more difficult for modern minds to recognize that places in nature which bear no special markings or buildings are also considered sacred.

There are countless mountains around the world considered sacred by cultures past and present. These holy mountains are also keystones to indigenous religions that regarded these areas as the abodes of certain gods, goddesses, deities, divine beings, natural forces, and spirits. In addition, pilgrimages to sacred mountains have been taking place for thousands of years. Whether it is Mauna a Wākea in Hawaiʻi, Mount Fuji in Japan, or Mount Shasta in California, their sacredness has resonated from centuries past.
Mauna a Wākea, Hawaiʻi

Mount Fuji, Japan
(http://images.pictureshunt.com/pics/m/mount_fuji_scenery-12120.jpg)
Sacred mountains such as Mauna a Wākea, due to their geological composition and extreme height, are a piko (portal) that allows for the transference of energy from one source to another. This understanding is reflected in the traditional Hawaiian concept of the "triple piko" of a person. In essence, the piko on the summit of the mountain is comparable to the piko located on the tops of one’s head at the fontanel. This perspective is also described in the Cultural Anchor of the CMP. [an abbreviated description is recopied below]

Mauna Kea is “ka piko o ka moku,” which means “Mauna Kea is the navel of the island.” Understanding the word piko may give a deeper understanding of why Mauna Kea is the piko, or navel, of the island.

In terms of traditional Hawaiian anatomy, three piko can be found. The fontanel is the piko through which the spirit enters into the body. During infancy, this piko is sometimes “fed” to ensure that the piko becomes firm against spiritual vulnerability. For this reason, the head is a very sacred part of the anatomy of the Hawai‘i native.

The second piko is the navel. This piko is the physical reminder that we descend from a very long line of women. The care of this piko ensured two things: the healthy function of the child and the certification that the child is a product of a particular land base.

The final piko is the genitalia. The genitalia are the physical instruments that enable human life to continue. The health of all piko ensures that the life of the native person will rest on an axis of spirituality, genealogy and progeny.
When we understand the three piko of the human anatomy, we may begin to understand how they manifest in Mauna Kea. Mauna Kea as the fontanel requires a pristine environment free of any spiritual obstructions.

It is this piko on top of the summit where energies and life forces flow from the Creator and higher dimensions, through the realm of Wākea, and then into the Earth. Likewise, the piko on top of one’s head where life force energies from the Creator and higher dimensions flows into one’s body. On 4 March 2011, a photograph was taken from Waimea by Kehaulani Marshall showing a portal opening above the piko of Mauna a Wākea when such an event was occurring.

However, when the piko of the summit is obstructed with the physical excavation of the landscape, asphalt and cement pavement, metal posts implanted in ground, buildings, and construction, it curtails, restricts, or prevents this pure flow of energy. Thus, the development on the summit is causing adverse impacts and significant obstructions to the life force energies that flow into these islands through this piko.

In addition, Mauna a Wākea anchors a very complex multi-dimensional over-fold, and does so through its very conscious geometric grid, complex frequencies, and unique electromagnetic field. The summit is also an area where vortexes of energy occur.

Vortexes are swirling eddies of electrical and magnetic energies. They are a function of the gravity and electromagnetic grids. Based upon the natural energy pattern due to the earth’s gravity and electromagnetic fields, vortexes naturally occur at places where the field is especially dense or concentrated.
polarity, vortexes generally spin counterclockwise above the equator and clockwise below it. Vortexes distribute energy outward in what is termed electrical vortexes, and inward in what is termed magnetic vortexes. Some function as both. Mauna a Wākea is an example of an inward and outward vortex-portal complex.

However, the electrical substation, power lines, and high voltage current that runs to the top of the summit for the existing telescopes is interfering and disturbing the electromagnetic fields and vortexes that naturally occur on the mountain.

Also, Mauna a Wākea also resonates in harmonic oscillation with Mount Shasta in California, Mount Fuji in Japan, and other specific mountains around the world. As a result of this energetic connection between these mountains, these other areas are also impacted by what occurs on Mauna a Wākea.

VII. Adverse impacts upon ancestral akua, kupua, and kupuna

The actions of the UH to advance the overdevelopment of astronomical facilities within an environmentally and culturally sensitive landscape has caused adverse impacts and irreparable harm upon those akua, kupua, and kupuna of Mauna a Wākea. This draft plan fails to protect them from further development.

The term “akua” is being used in this document in a broad cultural context to be inclusive of gods, goddesses, deities, devas, nature spirits, divine beings, and natural forces. The ancestral akua that were recognized by our kupuna are those primarily embodied in the natural forces of nature. Likewise, they could take multiple forms (kinolau) such as animals, plants, and natural elements. Some were identified with names and some were not. The use of akua as a common noun is distinct and different when used as “Akua” or “Ke Akua” in the proper name form which typically refers to the Creator or God. The term “kupua” is used in this document in reference to other entities or supernatural beings who also have the ability to assume different forms.

Individuals with a western mindset and a lack of understanding might choose to dismiss the existence of akua and kupua completely as mythological folklore. While others might choose to dismiss their existence due to personal religious persuasions and/or social upbringings. The Earth, Universe, and Cosmos is teeming with life in many variant forms, forms vastly different from our own. Yet the consciousness inside is of the same Creator, same creative divinity as our own. It is narrow minded to believe that the human physical form is the only form of life.

There are several ancestral akua connected to Mauna a Wākea that have been recounted by our kupuna in their oral traditions and subsequently articulated in literature. Some of these accounts
are referenced in the document, *Mauna Kea - Ka Piko Kaulana O Ka ʻĀina* (2005), prepared by Kepā and Onaona Maly of Kumu Pono Associates, LLC for the OMKM. Also, in several documents, there are various references regarding the ancestral *akua* along with their connections to the sacred landscape on the summit of this mountain as noted below:

As a result of his exhaustive studies, Kepā Maly identified many traditional cultural properties on Mauna Kea. He documented ongoing traditional cultural practices associated with several of these. It is a sacred landscape that provides a connection, genealogically, physically, and spiritually to ancestral realms. The mythical creation of Mauna Kea is part of a Hawaiian cosmology that establishes a relationship between all things animate and inanimate. (CMP, p 1-2)

Native Hawaiian traditions state that ancestral *akua* (gods, goddesses, deities) reside within the mountain summit area. These personages are embodied within the Mauna Kea landscape – they are believed to be physically manifested in earthly form as various *pu‘u* and as the waters of Waiau. Because these *akua* are connected to the Mauna Kea landscape in Hawaiian genealogies, and because elders and akua are revered and looked to for spiritual guidance in Hawaiian culture, Mauna Kea is considered a sacred place. (CMP p 5-3)

The origins of Maunakea and its central place in Hawaiian genealogy and cultural geography are told in mele (poems, chants) and mo‘olelo (stories, traditions). Native Hawaiian traditions state that ancestral *akua* (gods, goddesses, deities) reside within the mountain summit area. Several natural features in the summit region are named for, or associated with, Hawaiian *akua*; these associations indicate the importance of Maunakea as a sacred landscape. Each part of the mountain contributes to the integrity of the overall cultural, historical, and spiritual setting (TMT FEIS, p 3-11).

Members of the Flores-Case ʻOhana have connected with some of the *akua, kupua,* and *kupuna* of Mauna a Wākea through genealogical ties as well as through customary and traditional practices. Through ʻ*ike kupuna,* indigenous knowledge and ancestral insight, the following information and understanding were provided about some of those affiliated with this sacred mountain.

(Guardian - name not disclosed at this time), a guardian force of nature from the depths of Mauna a Wākea came forth to provide the following insight. [Note: It was felt as though it was a male presence and so his gender is referenced as such. Such beings, in truth are often not of either gender, but rather espouse certain frequencial attributes that humans define as male or female.] In a ceremony conducted on the summit on 8 May 2011, the presence of this guardian was personally witnessed. He came from the very depths of the mountain, way below the crust of the ocean floor, one who carries the ancient knowledge. He stated, “I come from the depths, the ancient *pōhaku.*” He is the guardian of the bottom, deep below in the earth. He was filled with joy that we were there to listen. However, he was also filled with sadness because the
observatories on her (the mountain’s) shoulders and breasts were causing such desecration. He was aware of her feelings because they are all connected. Other guardians on the mountain have been awakened and are on alert regarding proposed development. They are all in full communication with the Creator who can see all things through Wākea.

He declared that those who are planning to cause further desecration on Mauna a Wākea are "ignorant and lost." In addition, he explicitly stated a message to them, "You are responsible for what you do not know and you will be held responsible." He also mentioned that everyone is accountable for their own actions. Furthermore, he emphasized that, "You don’t know what is coming when you do this, you have been warned." He is the one who has the power to shake the earth. Such a decision is not his, but would come from the Creator if needed to restore balance on the mountain.

(Guardian – rough English translation of name, “The one who sees far into the heavens”), an ancestral guardian connected to a pōhaku and previously unidentified site within the vicinity of the proposed TMT site. This guardian explained the significance of many of the sites on the northern plateau as they are interconnected like a large star map. Individuals from certain family lines were guided to come up to the mountain during certain times of the year to reestablish, construct, align, activate, and/or maintain these sites. The TMT construction activities of excavating, grading, and rock-crushing in the area have already caused a great disturbance amongst these sites and guardians. This ancestral guardian also reiterated some of the significant impacts that would result from the building of this telescope and the consequences of attempting to pursue this project on this sacred landscape.

Poliahu, “ka wahine i ke kapa hau” (the woman in the mantle of snow), is at times referred to as an akua wahine. She is a part of Mauna a Wākea and creates the rain, snow, hail, and sleet on this mountain. She serves as caretaker and guardian for the mountain and grants permission to certain spirits coming to the mountain. Poliahu has two attendants assisting her, Lilinoe and Lihau. She is a part of the landscape features with a highly evolved consciousness. Both oral and written Hawaiian traditional accounts have documented her connection to Mauna a Wākea. We have been present at times when she has shared her concerns about the existing and proposed further desecration on the mountain. She has explicitly remarked that she does not want the existing and any new observatories on this sacred mountain. They are blocking the piko on the summit. If she is dislocated due to the new telescope, it might create new problems and affect the weather patterns on the mountain as well as other areas on the island.
Moʻoinanea, *moʻo wahine* and guardian of Lake Waiau, is at times referred to as a *kupua*. She is described in several traditional accounts and has genealogical ties to the Mauna a Wākea. Firstly, it is difficult to explain or define who Moʻoinanea is for those who may lack an understanding. The existence of her as a *moʻo wahine* goes beyond anyone’s personal belief, cultural attributes, or religious persuasion. We contend that just because other individuals are not able grasp this understanding, do not easily dismiss Moʻoinanea’s existence on Mauna a Wākea. Moʻoinanea is a revered and significant figure in both oral and written Hawaiian traditional accounts that have documented her connection to Mauna a Wākea. She is able to communicate with individuals who have the cultural sensitivity and ‘gift’ to see, hear, and interact with her.

There are numerous traditional and family accounts describing the episodes, sightings, and interactions with *moʻo* in these islands of Hawaiʻi. They are often known to reside in freshwater tributaries, ponds, coastal areas, forests, and mountain zones. Their presence is not only documented in Hawaiʻi, but their existence has been documented throughout the ages and by cultures around the world. These benevolent and fully conscious beings exist, and are as much a part of our Earth as humanity. They possess supreme divine intelligence and are extremely advanced. They are protectors of humanity and of the planet and are often closely aligned to the earth’s electromagnetic and crystalline energies and fresh waters. These *moʻo* have been on the Earth since the beginning. They are indeed physical. They exist primarily in a higher parallel dimension, but do also bodily exist in our physical world. They do reproduce, and the ones on our planet in the present, were all spawned and birthed on the earth. Likewise, they do have physical life spans and also have their own hierarchy and distinct genealogies.
We have been present at times when Moʻoinanea has shared her personal accounts about herself and her family as well as described the type of cultural traditions our *kupuna* of old practiced on the Mauna a Wākea including pilgrimages to the top of the mountain. In addition, she has expressed her concerns about the existing observatories and proposed further desecration on the mountain. She has shared that the existing observatories have created obstructions and hazards for those who reside on Mauna a Wākea. Likewise, the proposed new observatory will adversely impact Moʻoinanea and others who dwell on the summit. When these guardians and caretakers of the natural elements on Mauna a Wākea are negatively impacted by human’s actions, it will also impact the natural elements that are integrally connected to them. Consequently, these actions will also impact us as humans as the natural elements and environment start to shift and change. There is an imbalance and disharmony that has been created on this sacred *piko*.

![Moʻoinanea by Diana LaRose](image)

*Kupuna*, ancestors, including aliʻi of the past, are also on Mauna a Wākea serving in different capacities or having come to this mountain under different circumstances. Some serve as
guardians of various sites and places on the mountain. Others had ventured up to this sacred mountain during various different periods of time. Members of the Flores-Case ‘Ohana have encountered and engaged with these kupuna on several occasions through their cultural practices, ceremonies, and visits on the mountain. One such group of kupuna fled up towards the top of this sacred mountain after western contact (circa mid-1800’s) when foreign diseases and epidemics swept through the villages along the Kona coast. Many of them were being persecuted by foreigners, particularly missionaries, during this time when many were dying by the hundreds. So for those who could, they fled up to the mountain to die in the realm closer to Wākea. One kupuna recounted this account as she was the last one alive amongst her family and others in her group. She sang to them as they each had passed away until she was the very last one to pass. There were literally hundreds of them who had passed during these times and their remains are scattered around the mountain depending upon where they ended up.

VIII. Adverse impacts upon cultural resources and historic sites

The actions of the UH to advance astronomy overdevelopment within an environmentally and culturally sensitive landscape has caused adverse impacts and irreparable harm upon those cultural resources and historic sites connected to Kanaka Maoli and their practices. This draft plan fails to protect these resources and sites from further development.

The UH failed to follow the CMP and Cultural Resources Management Plan (CRMP), a sub-plan of the CMP, which provided OMKM with the tools it needed to meet its cultural resource management responsibilities. It begins by identifying key management objectives and goals that can be used in making budget decisions, assessing staffing needs, and setting up contracts for specialized services.

Likewise, UH failed to follow the major objectives of the 2000 Master Plan including, but not limited to those noted below:

- promoting a greater understanding of the rich cultural heritage of Mauna Kea;
- preserving and managing cultural resources in a sustainable manner so that future generations will be able share in and contribute to a better understanding of the historic properties that exist in the summit region, which is of major cultural significance to Hawaiians;
- maintaining opportunities for Native Hawaiians to engage in cultural and religious practices; and
- preserving the cultural landscape for the benefit of cultural practitioners, researchers, recreationalists, and other users.
Archaeologists contracted by the UH and astronomy projects to conduct archaeological inventory surveys and reports on Mauna a Wākea have failed to consult directly with cultural practitioners. As a result, these surveys have often misidentified historic sites, misinterpreted cultural practices, distorted Kanaka Maoli knowledge, and excluded traditional cultural properties. Furthermore, these surveys and reports tend to regurgitate information in past reports that were at times incomplete or inaccurate.

In addition, the State Historic Preservation Division has historically failed to protect the cultural resources and historic sites on Mauna a Wākea and have failed to consult with cultural practitioners during their reviews of these inventory surveys and reports.

In 1997, SHPD instituted a process of recording locations termed “find spots,” which are cultural resources that are either obviously modern features or features that cannot be classified with any level of confidence as historic sites because of their uncertain age and function. This action has put the status and protection of many actual historic and cultural sites in limbo.

Also, both BLNR/DLNR and UH failed to complete the CMP management action CR-2 to finalize the application of designating Mauna Kea as a Traditional Cultural Property (TCP) under the National and State Historic Registers of Historic Places. The entire mountain region of Mauna Kea from approximately the 6,000 foot elevation to the summit, including the Mauna Kea Science Reserve, was identified in the Cultural Impact Assessment [CIA] Study (1999) as a potential TCP.

IX. Adverse impacts upon Kanaka Maoli customary and traditional practices

The actions of the UH to advance astronomy overdevelopment within an environmentally and culturally sensitive landscape has caused adverse impacts and irreparable harm upon cultural sites and traditional and customary Kanaka Maoli cultural, spiritual, and religious practices. This draft plan fails to make commitments to protect these practices.

The UH fails to make any actual commitments in this draft plan to protect Kanaka Maoli practices and rights associated with Mauna a Wākea that are constitutionally protected. Instead, references in this draft plan are reduced to just “understanding” and “respecting” Native Hawaiian practices. Such practices are directly connected to the cultural sites and landscape of Mauna a Wākea which is further affirmed in the 2000 Master Plan:

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6 See: Hawaii State Constitution, Article XII, Section 7
All aspects of Hawaiian life were steeped in ritual. For the Hawaiian people, spiritual beliefs, cultural practices and all facets of daily life were intricately bound to the natural landscape of the islands. (p. V-2)

Thus, the destruction and desecration of cultural sites and the landscape, directly diminishes or extinguishes the associated practices. Cultural practitioners have been literally pushed off the summit (13,290 ft./4,050 m. elevation) of Mauna a Wākea as the result of the existing astronomy development. The once open space and view corridors on Kūkahau'ula have been visually impaired by the existing telescopes and observatories. A cultural practitioner’s view planes and vantage points are blocked by several of these imposing structures. In addition, the constant noise and buzzing sounds from the electrical components of these observatories have impaired the once serene and peaceful environment.

Likewise, the proposed TMT or another similar project if built would forcefully push cultural practitioners even further below the 11,000 ft. elevation level on the northern plateau to find an unobstructed view and undisturbed area on this side of Mauna a Wākea as shown in the rendering below.
Furthermore, the TMT project proposes to be built in an undeveloped area amongst the hundreds of the documented and undocumented ahu (shrines) and cultural sites. The concentration and placement of these sites on this northern plateau was not randomly done by our *kupuna*. They were erected and established with specific intentions. Many of these *ahu* are interconnected similar to a star map. Embedded within these *ahu* and stones is ‘ike *kupuna* and ancestral knowledge along with ancestral guardians. As such, construction of the TMT or any other observatory in this vicinity would sever our past, present, and future generational connections with the ‘ike *kupuna* and ancestral knowledge implanted at these sites. With the understanding that many of these sites serve as depositories of ancient wisdom as well as multi-dimensional portals, the massive extent of destruction proposed in this culturally sensitive landscape would also adversely impact our customary and traditional practices that are still connected to these sites. Once this landscape is excavated by the proposed TMT construction, it can never be repaired and restored. Many of these sites are interconnected and the detrimental impact on those in the vicinity of the proposed TMT site would also negatively impact the other sites and ancestral guardians connected to them.

On the northern plateau, many of the sites have both visual and energetic alignments with each other as well as with other noted natural features such as the surrounding *pu‘u*. Due to the massive height and size of the TMT observatory, if built it would cause significant visual,
physical, and energetic obstructions amongst these sites as well as adversely impact Kanaka Maoli in a similar way.

Other detriments to Kanaka Maoli practices on Mauna a Wākea was the extent and manner in which administrative rules and policies were developed by the UH to further curtail, extinguish, and criminalize such practices. These rules and policies were adopted with a ‘rubber-stamped’ process for approval and were developed without adequate consultation with the Native Hawaiian community, Hawaiian organizations, and cultural practitioners. Furthermore, when comments were provided at public meetings, they were systematically ignored.

As of this date, UH has failed to conduct any updated and comprehensive consultations with cultural practitioners associated with Mauna a Wākea. Furthermore, the last compilation of information and interviews with Kanaka Maoli was done over 16 years ago between 1998-2005 by Kepā Maly. These were included in reports contracted by the UH. Subsequent reports have only regurgitated outdated information from these earlier accounts.

**SPECIFIC COMMENTS**

These are limited specific comments regarding this draft plan due insufficient time provided for an adequate review:

- Developing a 20 year plan is both impractical and unrealistic during these rapidly changing times. Have we not learned anything from the COVID-19 pandemic? This draft plan should be done for a period of only 10 years or only until 2033 when UH’s master lease expires. Due to uncertainties and unknown status after 2033, a new master plan should NOT be developed beyond this point.

- The draft plan fails to outline the carrying capacity of astronomy development on Mauna a Wākea that would reverse the substantial, significant, and adverse cumulative impacts upon its resources. There is a lack of criteria for determining the amount of astronomy facilities that should remain.

- The draft plan fails to clearly outline “land use zones” in the Astronomy Precinct based on updated cultural and natural resource information that would “delineate areas where future land use will not be allowed and areas where future land use will be allowed”. (See: CMP management action item FLU-2 Land use zones)

- Instead of increasing activities on the Mauna, including multidisciplinary educational activities at Hale Pōhaku, it should look at reducing activities by directing them to the ‘Imiloa Astronomy Center (formerly Mauna Kea Astronomy Education Center). That’s
why nearly $30 million of taxpayers’ funds was used to construct this facility on the UH at Hilo campus in the first place. It was to divert the visitors here and reduce their impact on the mountain as well as making educational experiences more accessible to students. Likewise, the proposed UH Educational Telescope should be located on the UH at Hilo campus or grounds of the ‘Imiloa Astronomy Center so that’s more accessible to students, visitors, and the community and so that it would not create any further adverse impacts on Mauna a Wākea.

- It isn’t clearly articulated who is accountable for the implementation of this plan. Also, it lacks an outline for grievance procedures for issues that may arise.

- The draft plan fails to allow parking presently utilized by cultural practitioners in other areas outside of identified Parking Areas 1-3. There needs to be a distinction between the parking for the general public parking/visitors and cultural practitioners. Cultural practitioners and local residents should not be prohibited from parking outside of Parking Areas 1-3 particularly for cultural practices, hunting, and/or recreational activities. Local families should be allowed to park out of Parking Areas 1-3 particularly when participating in recreational activities associated with snowfalls. Instead, visitors with rental cars should be instructed to utilize Parking Areas 1-3. The plan should also designate specific parking areas for astronomy personnel.

- The draft plan is missing an accurate and enlarged map delineating the boundaries of parcels (including metes and bounds) associated with the subleases and other uses of the UH operated astronomy facilities (Sites 7 and 9).

- The hardening of trails should be avoided to prevent further adverse impacts.

- The plan should include an electromagnetic field (EMF) analysis exhibiting the peak and low periods of usage for the utilities lines and astronomy facilities as a baseline study.

- Specific information concerning recreational, commercial, and astronomy activities are addressed in subsections 2.4.1 through 2.4.3. However, it lacks any reference to cultural activities.

- The domes and shutter of telescopes should NOT have a reflective aluminum-like coating in order to reduce the adverse visual impacts. As noted in the 2000 Master Plan, “As much as possible, surfaces should be non-reflective in the visible spectrum to minimize glare and visibility from distant areas.”
There should be definitive height limits of any proposed new or existing facilities on the summit. The use of views from only Hilo and Waimea fails to account for adverse visual impacts when on the summit or near vicinity. There should also be sketches of astronomy facilities from benchmark locations from noted places on the summit.

Stakeholders, including cultural practitioners and members of the public, should be provided an opportunity to provide input on proposals in the review flowcharts especially after Step 3 in Type B and C proposals.

The proposal to pave the roughly 0.5-mile unpaved portion of the Mauna Kea Access Loop Road from Astronomy Site 12 (SMA) past Astronomy Site 1 (Subaru) to Astronomy Site 3 (Keck II) would cause further adverse impacts to this pu‘u (and TCP and historic site) as well as to the wekiu habitat of this area. As such, it should NOT be paved or widened. In addition, retiring the older, southern, switchback portion of the Mauna Kea Access Summit Area Loop Road should also not occur.

Existing facilities in the MKSR and Hale Pōhaku should be required to convert to zero-discharge wastewater systems immediately instead of waiting until 2033.

UH should be negotiating terms for fair market value of astronomy facilities for the remaining years of the existing sub-leases.

**CONCLUDING REMARKS**

Members of the Flores-Case ʻOhana have participated at all levels of the public review process pertaining to Mauna a Wākea such as attending board meetings and hearings, submitting testimony, entering into contested case hearings, and filing legal appeals. Based upon our personal experience, it's very evident that the State (inclusive of the Governor, Attorney General Office, BLNR, DLNR, UH, BOR, OMKM, CMS, their contracted law firms, hearing officers, other agencies and individuals) have taken very adversary positions and actions against Kanaka Maoli cultural practitioners which have resulted in detrimental impacts upon our cultural practices and traditions associated with Mauna a Wākea. Likewise, the State has systematically ignored community and Kanaka Maoli concerns dating back to the 1970’s regarding the overdevelopment of the environmentally and culturally sensitive landscape of this sacred mountain.

The written comments presented in this document highlight significant deficiencies and lack of accountability in this review process. In addition, oral comments were also presented on October 21st. Comments put forth are specific to the items presented and were not intended as an
assessment of all aspects of the draft master plan as there was insufficient time and resources to do so. Other parts of this draft plan that aren't commented upon does not constitute an endorsement or agreement with these sections. We reserve the right to further comment on this draft plan in the future. These comments are submitted on behalf of the Flores-Case ‘Ohana.

The true aspect of stewardship entrusted to the UH for our precious and public lands in conservation districts is to ensure that these significant areas are acknowledged, preserved for present and future generations, and not systematically destroyed. In essence, the astronomy development on the summit of Mauna a Wākea has been conducted as a commercial enterprise under the guise of science, educational, and economic opportunities that has resulted in the cumulative impacts upon the natural and cultural resources being substantial, significant, and adverse due to over 50 years of mismanagement.

Everyone is responsible and accountable for their intentions and their actions in the wao akua, this sacred space known to our kupuna as Mauna a Wākea. On this mauna, one must interact in a manner that is pono, upright in the presence of the ancestral connection that binds us through space and time to teachings, traditions and lifeways that have continued because of the kuleana that has been passed down from one generation to the next.

It is important to remember that many peoples, including Kanaka Maoli, have a reverential relationship with the living Earth as our 'Mother' or 'Grandmother'. The cultural perspective of mālama ʻāina and aloha ʻāina, to care for the land and nature with sincere love and respect, is at the heart of Kanaka Maoli cultural traditions. For those who are listening, what is our ʻāina trying to tell us during these times of change?

Kanaka Maoli and their allies throughout Hawai‘i and the world have risen like a mighty wave and are committed to protecting their beloved Mauna a Wākea from further desecration and destruction. May the following links to documented experiences assist all in understanding the Kanaka Maoli’s deep connection to their sacred mountain.

Like a Mighty Wave; Maunakea: Sacred Mountain, Sacred Conduct; We Are Mauna Kea Sacred Mountain: Mauna Kea; Standing Above the Clouds; Mauna Kea – Temple Under Siege;

In conclusion, this draft plan fails to restore lōkahi (harmony/balance) on Mauna a Wākea. It’s very evident that the UH is incapable of properly managing these culturally and environmentally sensitive lands of Mauna a Wākea even with this proposed plan. As such, the appropriate action would be to transfer the management of these lands to a non-governmental Native Hawaiian entity.
I ka Piko o ke Aloha
October 25, 2021

National Science Foundation Comment on University of Hawai‘i Draft Master Plan

The National Science Foundation (NSF) appreciates the opportunity to provide comments on the draft Master Plan prepared by the University of Hawai‘i (UH). As the owner of two major astronomical facilities on Maunakea (the Gemini North Observatory and the Maunakea Very Long Baseline Array (VLBA) antenna), both of which are operated on our behalf by non-profit science management organizations and are the subject of sub-leases with the University of Hawai‘i, NSF has a strong interest in the effective management of the Science Reserve on the Maunakea summit. Within that context, NSF recognizes the importance of protecting Maunakea’s environmental resources, respecting Native Hawaiian culture and the interests of the Native Hawaiian community, and preserving NSF’s astronomy assets on behalf of the US scientific community and our funding partners. Therefore, NSF offers the following comments on UH’s draft Master Plan:

1. NSF recognizes the need for the Native Hawaiian community to have a voice in the management of Maunakea. While there are a few references to UH’s plans to involve the Native Hawaiian community in future activities, the document does not specify what that involvement entails. Moreover, the crux of the document focuses on how UH’s mission will be carried out without discussion of how positive or negative impacts to the Native Hawaiian community will be addressed. NSF believes the document would benefit from a meaningful discussion within the final Master Plan of what these impacts are and how future governance will meet the needs and interests of the Native Hawaiian community.

2. The draft Master Plan includes several very specific guidelines that appear to be requirements (such as dome height and color restrictions, limitations on the number of telescopes within the Astronomy Precinct, locations for the siting of telescopes, etc.) without an accompanying discussion of environmental or cultural resource impacts substantiating those requirements. It is, therefore, very difficult for NSF to evaluate or determine the appropriateness of these requirements.

3. NSF notes that there does not seem to be a specific reference in the draft Master Plan to the 10% observing time that observatories on Maunakea provide to UH as a condition of their subleases. This observing time translates to millions of dollars in direct benefits to UH, and this contribution should be acknowledged, discussed, and evaluated to determine whether it should be redirected (in part or in whole) to provide a more equitable distribution of the benefits to the community, especially to Native Hawaiians.
4. NSF strongly opposes all references to the decommissioning of the VLBA antenna on Maunakea in the draft Master Plan (see, e.g., page 4-5, and 4-14: “It is known that VLBA, on Astronomy Site 14, will be decommissioned prior to the end of 2033.”). On numerous occasions, NSF has communicated to UH, both formally and informally, its position that the VLBA antenna on Maunakea should not be decommissioned because it is a valuable astronomy asset for the nation, and, by virtue of its use in maintaining the Celestial Reference Frame and measuring Earth Orientation Parameters as a contributing system for the International VLBI Service for Geodesy and Astrometry, it plays a vital role in maintaining the integrity of Global Navigation Satellite Systems, including the Global Positioning System. Additionally, this VLBA station is afforded special regulatory protections for portions of the radio spectrum at its present location (i.e., footnotes 113, 131, 161 of the United States Table of Frequency Allocations; 47 C.F.R. § 2.106).

5. The process for decommissioning of facilities set forth in Appendix D to UH’s draft Master Plan lacks sufficient detail to provide meaningful review and comment. NSF does maintain that any decommissioning process should be determined after considering input from the science community and led by the Master Lessee. NSF also notes that the Master Lessee should be cognizant of any potential conflicts of interest it may have when making determinations about which facilities to decommission.

Thank you, again, for the opportunity to provide comments on the draft Master Plan. We look forward to seeing how NSF’s comments are incorporated into the final Master Plan. If further clarity on our comments is needed, please feel free to reach out to David Boboltz, Ph.D. at dboboltz@nsf.gov.

Sincerely,

Linnea Avallone, Ph.D.
Chief Officer for Research Facilities
Office of the Director

Sean L. Jones, Ph.D.
Assistant Director
Mathematical & Physical Sciences
Regarding: Public Draft Master Plan for the University of Hawai‘i Maunakea Lands

The University of Hawaii continues to make plans for the Mauna Kea. Working from a lease obtained through the Department of Land and Natural Resources, State of Hawaii. Those lands have previously been a part of the Ceded Lands Trust as defined in the Admissions Act section 5f. Those lands are part of those lands Ceded to the United States by the Republic of Hawaii who did not hold lawful title to those properties as those lands were/are the stolen properties of the Hawaiian Kingdom’s Crown and Government who in fact holds onto the lawful title to subject properties.

The State Of Hawaii claims that those lands termed Crown and Government were Ceded to them by the United States when Hawaii was admitted into the Union of States called the United States.

There is no treaty of annexation between the United States and the Hawaiian Kingdom. The only way a county like the United States can lawfully annex a foreign County like the Hawaiian Kingdom it must be done through a Treaty between the two contracting parties….the United States and the Hawaiian Kingdom.

The Hawaiian Kingdom was an internationally recognized Independent Nation State on the same level as the United States, Russia, China, France, Spain, etc. It remains a question…by what law in the Constitution of the United State or internationally was used to annex Hawaii, a Foreign Internationally Recognized Independent Nation State.

It is because of these foundations of international Law were never met nor could ever be met. The Hawaiian Kingdom Continues to exist as an independent Nation State covering the entire Hawaiian Archipelago.

The United State of American still has no lawful authority to assert it’s jurisdiction within the foreign Independent Nation State of the Hawaiian Kingdom. Therefore the so called annexation of Hawaii and subsequent State of Hawaii and it’s agencies remain moot. Therefore any action such as exhibited by the State of Hawaii
and it agencies is done with complete knowledge of the illegal nature of it entire existence and continues with complete knowledge that it is actively engaged in violation of international Treaties and remains complicate in active participation in violations of International laws of Nations and in direct conflict with the International treaties for the protection of Indigenous peoples, their territories, the customs, their resources and rights.

So the short of it is…Na Kupuna Moku O Keawe acting on behalf of the Hawaiian Kingdom, its Heirs, Government must reject the new proposals regarding the Sacred Temple of Mauna Kea…the Piko of the Hawaiian Kingdom.

Signed at 11:58pm October 26th, 2021

// Hanalei Fergerstrom, spokesperson
Na Kupuna Moku O Keawe
October 27, 2021

Gregory Chun, Ph.D.
Executive Director, UH Hilo Center for Maunakea Stewardship
640 North A‘ohōkū Place
Hilo Hawai‘i 96720
(808) 933-0734
cmshilo@hawaii.edu

University of Hawai‘i
Government Relations Office
Administrative Services Building 1, Room 101,
2442 Campus Road
Honolulu, HI 96822

Dear Mr. Chun,

SUBJECT: County of Hawai‘i Planning Department (PD) Response to Request for Comments on the University of Hawai‘i at Hilo’s (Center for Maunakea Stewardship) Public Draft Master Plan for the University of Hawai‘i Maunakea Lands; E O I Ka Leo.

File No: PL-INT-2021-000445
TMK: 4-4-015: 009; 4-4-015: 012; and portion 4-4-015: 012 (roadway easement), Ka‘ohe, Hāmākua, Hawai‘i.

This letter is in response to a request by your office dated September 12, 2021, soliciting comments from stakeholders on the subject draft Master Plan. The subject TMKs are within the State of Hawai‘i’s Conservation District and as such are subject to State Conservation District land use permitting under Hawai‘i Revised Statute (HRS) §183C and Hawai‘i Administrative Rules (HAR) §13-5. Section 2.1 of the proposed Plan says that it is intended to guide:
1. The planning, siting, and design of new facilities and improvements. 
2. Alterations and other material changes to existing facilities that will cause a permanent change to the land; and 
3. Decisions that UH may be involved in regarding which existing astronomy sites will remain operational.

While these lands are not subject to Hawai‘i County zoning and permitting, the PD is a stakeholder based on HRS §226 The Hawai‘i Planning Act; thereby, we offer the following comments for consideration:

A. Present the draft Master Plan to the County’s Cultural Resources Commission (CRC) and Request their Comments. The CRC is made up of Hawai‘i Island community members possessing various expertise in cultural–historic properties and matters. Amongst other things, the duty of this body is to “advise and assist federal, state and county government agencies in carrying out their historic preservation responsibilities” (Commission Rule 1-6).

B. Provide more Details for Future Halepōhaku Development. In Section 3.1.2.1 of the proposed Plan, it states that the Department of Land and Natural Resources (DLNR) requested that “new disturbances and developments at Halepōhaku be avoided”. Therefore, we recommend that as much as possible, potential new development projects for the Halepōhaku area be better detailed, vetted, and made available for further comment by public and governmental stakeholders prior to finalization of this Master Plan.

C. Provide more Details for Proposed Facilities to Manage Access. Sections 5.3 of the proposed Plan proposes managing vehicle access above Halepōhaku in such ways as charging fees for entrance and parking, mandating public access by shuttle, and capping the number of vehicles to a certain number during peak visiting hours. Prior to finalization of this Master Plan, we suggest providing more details on the number of private vehicles granted access at a given time. As well as provide clarity that the access management plan is equitable to all parties (residence, non-residence, astronomers, cultural practitioners, etc.) who wish to gain access to Maunakea Lands.

Thank you for this opportunity to comment on this draft Master Plan. Should you have any questions regarding this comment letter, please contact Kamuela Plunkett at kamuela.plunkett@hawaiicounty.gov.

Sincerely,

Zendo Kern
Zendo Kern [Oct 27, 2021 15:49 HST]
ZENDO KERN
Planning Director
October 26, 2021

To: University of Hawai‘i,
Government Relations Office,
Administrative Services Building 1, Room 101,
2442 Campus Road, Honolulu, HI 96822

Re: Comments on UH Master Plan 2021

FOUNDATIONS

Page 1-8
Strategy 4. Establishment of only those new facilities that “(iii) would greatly benefit from Maunakea’s unique cultural landscape or unique natural resources” is ironic. The unique cultural landscape and unique natural resources would not, by their very definition, benefit from the construction of new facilities, and conversely, the new facilities would be benefiting from the same natural resources that are always cited for every facility: clear skies, relatively stable atmosphere at elevation, low light pollution.

Strategy 8. “Decommissioning a sufficient number of existing astronomy facilities to ensure that the number of operating astronomy facilities in the MKSR is no more than nine (9) by December 31, 2033” does not address the lease requirements that the Mauna Kea Science Reserve and the so-called Astronomy Precinct be restored to its original condition by that date. The number of telescopes that UH would like to maintain in the summit region is irrelevant at that date.

Strategy 10. The premise that facilitation of development of Astronomy Site 13 is fundamentally flawed. Site 13 (Area E) should not be developed. The existing footprint of industrial astronomy on the Conservation District and Historic District should not be expanded, and measures to reduce the number of telescopes should not be tied to the development of the TMT.

The promoters of the TMT project were warned at the outset, in the Keystone Report that they commissioned, that the community was not in support of further development, and the hurdles could be insurmountable. They decided not to act at the behest of those who requested early consultation with cultural religious, lineal and traditional practitioners through the NEPA Section 106 process. The promoters of TMT have admitted that the funding to build and maintain such a facility are insufficient, the partners have posted no bond to assure the taxpaying residents of Hawaii will not bear the cost of dismantling or decommissioning the facility. Despite hundreds of thousands of signatories on a petition to stop the TMT, and thousands subjecting themselves to physical risk and prosecution, the promoters persist without the support of the rightful owners and beneficiaries of the land they plan to desecrate.

Strategy 15. The conversion of all wastewater facilities in the MKSR to zero discharge is long overdue and should have been addressed at the outset of the General Lease, not sixty years after the fact.

2.1 PURPOSE OF THE MASTER PLAN (Page 2-1)
The General Lease under which the University operates ENDS in 2033, and requires site restoration. The statement that the provisions of this proposed Master Plan

- “Are consistent with commitments UH has made regarding facility siting, decommissioning, and other matters, and comply with the provisions of existing permits, leases, and subleases that the DLNR and UH have granted”

is materially untrue. The statements in this plan presuppose a lease extension, as noted in footnote 11. The false assumption is maintained further discussion:

“2.4.3 ASTRONOMY FACILITY DECOMMISSIONING AND SITE RESTORATION IN THE PLANS

As detailed elsewhere in this Master Plan, by the end of the term of the current general lease (December 31, 2033), UH is committed to limiting the total number of operating astronomy facilities to nine (9) in the MKSR. This Master Plan addresses how astronomy facilities that will continue beyond the end of 2033 will be identified (Section 4.3.2.2 and Appendix D); those facilities that will not continue beyond the end of 2033 will need to be decommissioned before the end of 2033. The CMP provides for the site decommissioning and restoration process to be followed once an astronomical facility decides to cease operation. Specific steps related to decommissioning a facility and the restoration of the astronomy site on which it was erected, if that is the path selected, are outlined in the CMP. “

The DLNR/BLNR, (not UH or the astronomical facility), will determine in consultation with the trust beneficiaries the future of the crown and government land for which it holds the trust beyond the termination of the lease.

Signed,

Deborah Ward
P.O. Box 918
Kurtistown HI 96760
808-769-2403
cordylinecolor@gmail.com
12 SUMMARY OF INPUT RECEIVED VIA TOLL-FREE HOTLINE

The following are not transcripts of the messages recorded on the toll-free hotline voicemail. They are summaries of the messages left and may not capture word-for-word what the commentor spoke due to recording quality, background noise, and other factors. Similarly, translations of olelo Hawai‘i are approximate.
Submittal Number:  1  
**Date submitted:**  9/13/2021  
**Comment:** Yes good morning this is Robert Fowler. I'm calling regarding the Maunakea project that is starting up and I would like to leave my comments regarding the TMT 30M telescope that I have been contacting Gov. Ige for the past seven years to try and push this through but he ignores my comments and maybe this will help, talking to you people. I am a retired geologist and I'm very concerned about having one of the largest telescopes put on our island and not some place else. This would be a boon for Hawaii and for everyone else concerned and thank you very much my name is Robert Fowler F-O-W-L-E-R. Contact number X. I tried to leave a message using my Gmail but it said that it was already taken or already registered or something so I'm not sure what that was about but my email is X. Okay thank you for listening. Bye.

Submittal Number:  2  
**Date submitted:**  9/13/2021  
**Comment:** My name is Andrea Alex time Andrea Pete(?) [email address] and this is not this is a phone document telephone document. I'm thinking that having read the information about the ambivalent feelings that Greg Chun of the University has said about whether it's going to be built or not for the TMT on Maunakea. You should definitely consider that to be the final conclusion really of all this because so much of it does not depend on just University of Hawaii. The lack of scientific support in the world to build when some Hawaiians do not want it built there is important that people will boycott it and you have to think of that now at the beginning not that's really the beginning but you know where we are now and what we have to face in the future. They should definitely lower the amount of old telescopes up there now by the five that have been promised to be lowered by for many years and then also just consider that it's not going to be built TMT on this particular mountain and that would be best. The disrespect shown indigenous community for so many years have caused us, the lack of payment of the road, for the road to get there that's another one that has not been done. Promises to take away the other telescopes have not been done. Enough already. Time to stop this. Bye.

Submittal Number:  3a  
**Date submitted:**  10/8/2021  
**Message 1 of 3**  
**Comment:** Hello. Thank you for taking my call. I'm a 3rd generation Korean. I don't know anything about computers. Thank you for this opportunity to share my sentiments about the telescopes and so called Master Plan. I'm a 3rd generation Korean and I just want to pay back to the indigenous communities the love and aloha that they've shown me and my family for over 3 generations. Its appropriate for me to speak up in their favor. Anyway, I hope I can get my feelings shared in 5 minutes gonna be kind of hard. Anyway, maybe if I can’t get it all in I can call again and put it on a 2nd recording. I would appreciate it.

Anyway, to begin with, isn’t it beautiful how our neighborhood church spires kind of like copycat our mountains. Its all church spires. I believe they try to reflect the splendor, majesty and inspiration of our regular mountains on the whole planet. I know its been published and its official that there are dozens and dozens of so called sacred mountains in the whole world on every continent even like islands like ours. For example, Mount Sinai yeah, the Moses thing; Mount Fuji, Mount St. Helen’s, on the sacred mauna who live this I believe very strongly that you folks at the University, not you folks with the Master Plan idea or this delaying tactic, but the University 50 years ago show no moral respect about the scopes on the island if any moral respect was granted to the mountain there would be no scopes there today like all the other mountains that are sacred. And no scopes you will not find any scopes and I think that UH is morally wrong and the disrespect cannot be continued. Clean up the mountain, take everything off. No need rush but as long as its in the Master Plan to eventually end up that way let that mountain be the church of the indigenous society of these states. The University you know being the main sponsor of those telescopes I think they should both you and them apply. This is the second time with it; delaying tactic and repeated requirements or input from the public is being made over here. I think kind of like a little bit deceptive. Maunakea’s sacredness, is sacred for many reasons. Besides being the biggest and the tallest, there is unique freshwater life-giving storage system by the name of Lake Waiau that produces water, this life-giving water, in the artesian way being held in reserve. This water is given out at Lake Waiau on top of the mountain and coming from the same, exact same lava and rocks that are situated in our stars and go back to creation as we all well know. Seemingly, Maunakea is the main church of the older indigenous religion of these states [first recording ended].

Submittal Number:  3b  
**Date submitted:**  10/8/2021  
**Message 2 of 3**  
**Message 2 of 3**
Comment: Hello again is Tek Yoon XXX-XXXX continuing where I was left off. Again the question I would present to you- would you put a telescope or gift shop on this on top of the Sistine Chapel at the Vatican? Or how about telescope system installed on the top of Central Union Church on Punahou Street? Not appropriate or say again on, ask again the same thing on Mount Fuji and Sinai, any of the mountains I previously mentioned. I think not. I think the local governments have more respect and morally correct when they just leave the mountain as a sacred mountain and respect that. Was any prior research done by the University history department on struggles between the church and the state? There’ve been so many collisions, there's ample copious examples of the moral mistake of mixing the two giving people lot of headache for a long time. I believe Maunakea was and is a standalone church yeah and must get everybody off and correct this moral mistake that was an issue 50 years ago. Indigenous religion proponents have advised you and the UH in the very beginning. No trespassing. It was asked then and its being asked now but with a little more urgency because of the creepy crawly kine system that’s going on top of the mountain. The natural state has to be restored now. Changing the subject over here, you know our venerable late Don Ho, he always mentioned during his show routine down in Waikiki, “the missionaries come, the Hawaiian land go, the missionaries come, and the Hawaiian land go.” This is kind of like an appropriate observation Don Ho himself made repeatedly to the whole world. Please remove those optics off the mountain so that maybe Maunakea will not be ICVM(?) target. I used to be a missile artillery Army officer thanks to the East West Center, some reason they have not given you any heads up on this. ICVM optics, anything that gets over the horizon will now halfway around the globe and be very well seen with your optics. Base management over the last 40 years according to the latest audit by the late Marion Higa, operation of Maunakea management institution has miserably flunked the audit. They flunked it so badly you or anybody else can justify trying to do it again with so much really involved like me pointing out you know bad karma or moral wrong and government versus religion conflict. Please have the courage to correct what morally wrong you have done. Thank you. Get those telescopes off the mountain please. Thank you.

Submittal Number: 3c
Date submitted: 10/8/2021
Message 3 of 3

Comment: Hello again. Thank you for being tolerant of my request. Again this is Tek Yoon number X. Earlier in the day I tried to call the Maunakea Management Office in Hilo and I was informed by Hawaiian Tel that they disconnected the number pretty recently I believe. So anyway I’d like to have some feedback from your office, those of you that are processing this recording. Please let me know how I can retrieve a copy of my comments from the government office that you mentioned that it’ll be included under government office can I get copies of my recording please. Again I would appreciate the feedback on that, getting copies. Thank you. Aloha."

Submittal Number: 4
Date submitted: 10/11/2021

Comment: Hello my name is Hoʻolu Kowaleo. My number is X. My comments for the master plan as detailed by the University of Hawai‘i Mānoa is for the absolute halt and build of TMT on Maunakea. We have cried out to the University and to the other entities that are involved in this build and we have told you “no” numerous times. We have blocked you. We have protested. We marched. We wrote. We did everything that we possibly can and you still continue to move forward with this plan. How audacious of you to continue to move forward when the people of Hawai‘i, with the Kanaka ʻŌiwi have told you many, many times to stop. I'm not sure what part of no is not getting put across but I am absolutely against the build of TMT on Maunakea. Enough is enough. If you respect our voices as you have said E Ō I Ka Olelo, E Ō I Ka Ola, Olelo, whatever, I forgot what was said, then you should hear what we've been telling you guys over and over again. Hear what we are saying: we do not want you to build TMT on Maunakea, not now or ever. Enough is enough.

Submittal Number: 5
Date submitted: 10/13/2021

Comment: Hi my name is Sarah Lou. I wanted to say that I stand with the Native Hawaiians who are against the building of TMT. I think I'm for science and I believe there's a point in which you have to listen to what the community wants or else not being respectful and is not the right decision to do and I think that's where this situation is. So I'm calling for UH to cease construction of TMT on behalf of being respectful and being a part of the community and listening to indigenous peoples on their land. Mahalo, and I hope you have a nice day.

Submittal Number: 6
Date submitted: 10/13/2021

Comment: Hi my name is Elizabeth Ferris. My phone number is X and I wanted to leave a comment about the TMT. The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and have over the past 12
years clearly exercised that right and said no to the building of TMT on Maunakea which is 100% stolen Hawaiian lands. Please stop the construction.

Submittal Number:  7  
Date submitted:  10/13/2021  
Comment:  Hi my name is Karen Baldwin and my phone number is X. I'm calling right now to state that I do not support the building of the TMT 30m telescope on Maunakea. Indigenous people of Hawaii have an internationally recognized human right to self-determination and over the past 12 years have clearly exercised that right and said no to the building of TMT on Maunakea which is 100% stolen Hawaiian lands. Failure to listen to the indigenous people of Hawai'i is a violation of human rights and a violation of listening to the people.

Submittal Number:  8  
Date submitted:  10/14/2021  
Comment:  Hello my name is Marie Hobro and I am calling on behalf of opposition of this master plan to build upon Maunakea. It's been years of people fighting against this on indigenous land and the indigenous people have spoken and thought you have their voices heard countless times that this is not something that is wanted on their lands and I am respectfully asking you to please listen to these concerns before, Hawai'i isn't even a place for Hawaiians to thrive any more. There have been multiple protests and sign waving and petition signed. Enough is enough already. It's time to listen to the people. Thank you.

Submittal Number:  9  
Date submitted:  10/18/2021  
Comment:  Hello my name is Uma Mulnick and I am calling and saying that I am against the development of the telescope on Mauna Lea [Maunakea] and it is been obvious that the Hawaiian people have said no we do not want this. This is on stolen land already and it is time to stop abusing the land that belongs to our ancestors and to the indigenous people of the area and it has been worked with vigorously for the last number of years saying that this is not wanted. We need to stop the desecration of this sacred mountain. Thank you very much for the work that you're doing. Mahalo aloha.

Submittal Number:  10  
Date submitted:  10/23/2021  
Comment:  Hi my name is Erika Lygren and my contact information, my phone number is X and I would just like the comment to show that I am not in support of the new Thirty Meter Telescope on Maunakea nor do I support any future TMT telescopes on the sacred mountain and yeah that's my public comment. Okay peace.

Submittal Number:  11  
Date submitted:  10/23/2021  
Comment:  Hello my name is Christina Costa. I am an Ethnic Studies educator with Cal State Stanislaus as well as with Modesto Junior College. I'm also Pascua Yaqui Yoeme, and an indigenous woman to the United States and to Mexico. I'm calling in support of the organizers of Hawaii at Maunakea who are working against building a telescope on one of their sacred mountains Maunakea. I just want to say that in light of so many things that have been going on recently in the press I'm here in California in Riverside California. A white racist teacher got up and mocked indigenous culture. We know that historically other sacred sites has been destroyed and it has harmed the psyches of indigenous communities. For instance Mount Rushmore, also known as the Six Grandfathers in South Dakota, was desecrated by colonizers who came to the United States and saw it fit to destroy this sacred site, a spiritual sacred site of indigenous peoples in that area and those people are still hurting from that today. I want to see us avoiding causing further harm to indigenous communities in Hawaii. It is still stolen land that you are occupying and I encourage you to do the right thing and not only decide not to build on Maunakea but to recognize the land rights of the indigenous people of Hawai‘i and give them their land back. Thank you.

Submittal Number:  12  
Date submitted:  10/23/2021  
Comment:  Hello my name is Piper Roberts and my contact information is X and I'm here to protest the building of TMT on Maunakia [Maunakea]. It is destroying indigenous land and I believe indigenous land should be protected and the building of telescopes is already destroys a bunch of the island. So please do not build it. Thank you.
Submittal Number: 13
Date submitted: 10/24/2021
Comment: Please just leave the land alone like Hawai‘i has already been just desecrated. Just leave it alone. Let is heal.

Submittal Number: 14
Date submitted: 10/24/2021
Comment: Building this telescope on top of Maunakaya [Maunakea] is a desecration to Hawaiian culture and the environment. Telescopes already developed there has caused chemical spills leaked toxic substances onto the land and this is creating natural resources negligence and disregard of environmental and cultural impacts. This is a disgrace and this needs to be stopped. People have been protesting for over 2400 days and this is horrible. These are sacred lands. I hate to be able to say that we're doing this. Please stop. Thank you.

Submittal Number: 15
Date submitted: 10/24/2021
Comment: Please do not build the telescope on Montakea [Maunakea]. It is an ancient burial ground for Hawaiian people and ancient place for Hawaiian people and ancient rituals, place for, like deities and ancestors and the telescopes already established there are already detrimental to the environment. It is [inaudible] the Hawaiian culture they have and it should be stopped. Bye.

Submittal Number: 16
Date submitted: 10/24/2021
Comment: Hi my name is Charles Klausner and my phone number is and I'm calling on behalf to just comment that I believe that we should follow our kia‘i and not build TMT. I feel that this is an ill-advised venture and at this moment TMT does not have the support from the community and it is a desecration of the lands and I just wanted to call today to submit that comment and put my beliefs out there for this committee to review. Thank you. Bye bye.

Submittal Number: 17
Date submitted: 10/25/2021
Comment: Hello my name is Colby Wood. I'm calling from Huntington Beach, California. My phone number is X. I just wanted to say that I do not support the building on TMT on Maunakea. I think that it would be a destruction of natural resources that have taken millions and millions of years to create and we can destroy them in a matter of decades and I don't wanna see that happen. So please record my vote as a no on the building of TMT on Maunakea. Thank you. Have a great day.

Submittal Number: 18
Date submitted: 10/25/2021
Comment: Aloha my name is Nicole Everhart. I just wanted to give you guys a call and let you know that I think that you should really reconsider building the TMT telescope on top of Maunakea as so so many native people have been sharing their opposition for this and how sacred the mauna is to them and I think that it's really important in our society to listen to the native people. I do understand that base observation and research is extremely important and I just think that it needs to be moved to a different site. Maunakea is so sacred and so much of the land has been taken from the Hawaiian people and we need to listen to them and respect them. So please listen to everyone's comments that are opposing that and really look into your hearts and think that if somebody was going to take something so sacred from you how would you feel. All these people are banding together and they're spending their time, their lives their money, putting their hearts out there, putting their lives on the line to save Maunakea and we need to respect them. Thank you so much for listening to whoever hears this. I hope that this has made a difference for you and hopefully this has made a difference for all the native Hawaiians that are fighting so hard to save their land. Okay aloha and mahalo.

Submittal Number: 19
Date submitted: 10/26/2021
Comment: Aloha my name is Elizabeth [inaudible]. I live in North Kohala. My phone number is X and I would like to express my opposition to building of the Thirty Meter Telescope on Maunakea. I believe that the people have spoken and the
rights of the natives of this place should be respected. They have expressed clearly that they do not want this built there and for once they should be listened to.

**Submittal Number**: 20  
**Date submitted**: 10/26/2021  
**Comment**: My name is Karen Murray and my phone number is X. I'm opposed to TMT being built up there because it would alter too much up there. It's too much damage has been done to the top of Maunakea as it is. It's conservation land and if the academics do not understand the 8 criteria of exemptions on for building on conservation lands. I'm sure they can look it up. I'm sure they can get as much help as they need but none of the building up there has ever fulfilled the 8 criteria and this is just taking it a step too far. It's a total insult to the Hawaiian people. It's a total insult to any conservationists who haven’t sold out. I think that we should just stop building TMT all together and I'm glad that they're finally decommissioning and taking down what should have been taken down long ago. The UH and other telescopes have been proven to be bad stewards of the land up there and I guess that's it. Well there's actually a lot more you know but environmentally it's a disaster I think. Thank you.

**Submittal Number**: 21  
**Date submitted**: 10/26/2021  
**Comment**: Hi my name is Rebecca Light. My number is X. I live in Oakland California. I am opposed to the UH draft of it's plan for Maunakea. It is Crown Land. UH has no right to be controlling any issues related to the mauna or controlling or commenting or restricting in any way land access rights and use by native Hawaiian people. This is not okay. It does not even, it's not even legal as the Crown Lands are still legally recognized as being just that. I'm very, very opposed to this draft. It's very offensive. It's very racist to Hawaiian people and community and the right of the Kingdom of Hawaiʻi to their Crown Land is a legal right that the University does not have any business trying to control. Thank you so much. Bye.

**Submittal Number**: 22  
**Date submitted**: 10/26/2021  
**Comment**: Aloha. Thank you for giving the opportunity for input from the public on this important subject. I'm not Hawaiian. My family is here several generations, several generations and I think that many folks I know that myself, I am appalled at the government's failure to protect the Hawaiian people and the things, their religion and the things and the land that they hold sacred in front of God and everybody. This is been going on too long and this is a great terrible awful example of what has been happening on the islands these last, this last century and before. I’ve seen the misuse, what I think of misuse and abuse of Hawaiian culture to, bent, to be manipulated as if it supported the TMT or the construction, further construction on the mountain. It's what is called, when you adopt somebody else’s culture, when you misappropriate someone else’s culture. It's awful. It's been going on way too long and I’m not sure that the powers that be realize how much they think that business is so important but the quality of life of everyone is affected by these bad act against people who own this culture and from this place. Its shocking the way the people are ignored. I would, I absolutely think there should be a limit if UH is going to continue to administrate in some way Maunakea for the moment, that there should be a limit, it shouldn’t be open-ended. And again, I think there likely needs to be a change in leadership as well because it seems very subjective when they bring in the police against the Hawaiian people and supporters up there blocking only machinery non-violently. It affects me. That’s not what I want. And so it misrepresents myself as a part of the public, the general public. And that’s been going on. You take away from everybody’s quality of life by mistreating this one group of people in every way. You may not think of mistreating but it is because its not listening. Its not giving any weight to the folks who have all the interests. The right to protect this place is in the books. It says it is sacrely reserved. You know its in Hawaiian and its in English and its by the chiefs and by the foreigners and they say its sacrely reserved. So I don’t know how that, so anyway. So thank you for your time. My name is Lynn Walter. My email is X and my phone number is X and I do not support any construction on Maunakea and I think that the conservation should actually be conservation in its true sense not the manipulated sense. And listen to the people. They’re telling you what you need to know. But you just have to listen. Thank you.

**Submittal Number**: 23  
**Date submitted**: 10/26/2021  
**Comment**: Aloha my name is Jordan Hocker and my email is X. I am calling to include my comment on the UH draft master plan. I do not give consent for my words or my name to be used in any capacity as having been consulted. So yeah I have some major issues with this plan. One- the draft plan has been drafted regardless of extensive opposition of TMT by Kanaka Maoli and others who do not consent to having what is their public trust be desecrated in this manner. I do not approve of this general plan having indefinite control of Maunakea for present and future generations. That is an oversight and overreach of UH and does not have the authority nor the jurisdiction to be doing anything up on Maunakea without the express approval
of a majority of the folks and as we saw with the protests a few years back that is not the case. You kind of just dropped the plan and then decide that this is gonna work for everyone. Also a gate at the bottom of the road seems like purely a move to make it impossible for demonstrations that happened in the past to happen again and with this plan if it goes forward you can anticipate demonstration. So this seems like a pre-emptive move to prevent people from exercising their rights to protest. Also there does not need to be an increased security presence because that also seems like a response to both criminalize Kanaka Maoli who do not consent and will likely demonstrate in the future if this goes on. Further, what is happening up on TMT is a colonial practice, OK. It does not have the consent of the aboriginal people of these islands which means that when you use their own language to appropriate a plan that goes against the majority popular opinion that you are coopting and you are appropriating the language meaning you are using it in a way that it is not intended to be used. If you really truly acknowledged the origin of creation, then you would not be trying to put a telescope in a place where its not wanted to begin with. I think it goes without saying this draft master plan should not even be (1) considered and TMT should not be continuing to be considered. It is not the will of the people. And myself as a UH Maui College student who is pursuing a degree in Sustainable Science Management I am truly appalled that this is the institution that can in one breath say they support Kanaka Maoli and sustainable decisions and in the other breath put forward a plan like this which is meant to gaslight activists and gaslight Kanaka Maoli who know that digging into the water table, digging deep into the top of the highest point in Hawai‘i is not the right thing to do. Its not a sustainable move and its not necessary. So I don’t support this master plan. I do not support any continued plan for things to happen on Maunakea and you can have my word on that. Mahalo.

**Submittal Number:** 24  
**Date submitted:** 10/26/2021  
**Comment:** Teddy Johnson. I do not have an email address. However I moved to Hawai‘i in 1970 and every year I used to go up to Maunakea with my Boy Scout Troop and the only thing I ever saw Hawaiians do was drinking beer and writing their name with urine in the snow. And then I later joined the Sierra Club and I used to go up every year and I saw, still saw the same thing! So I don't know where they come up with all this stuff about religious significance of the mountain when the only thing I ever saw people doing was, like I said, urinating in the mountain. So they must have powerful urine that they have converted into a sacred mountain.

**Submittal Number:** 25  
**Date submitted:** 10/26/2021  
**Comment:** Aloha my name is Kamala Galletes. My phone number is X. My email is X. Thank you for your time and very careful consideration. I am calling to oppose the building of TMT on Maunakea. The people have spoken time and time again in opposition of this desecration and destruction of our sacred Maunakea. Please listen to the voices of the indigenous people of Hawai‘i, the Kanaka Maoli and the people all over the world that have expressed themselves. Petitions have been signed, testimonies have been given, people have shown up by the thousands to show just how much we oppose the building of TMT. I ask you today. I ask you tomorrow. I will be there to stand in opposition of this destruction all the days of my life to hana kupono to do what is right by the people, by the aina, by our kupuna, by na akua by saying no to TMT on Maunakea. Ua mau ke ea o ka ʻāina i ka pono (The life of the land is perpetuated in righteousness). Mahalo nui, mālama pono, a hui hou.

**Submittal Number:** 26  
**Date submitted:** 10/26/2021  
**Comment:** Aloha. This is Iokepa Kaolulokonanuiokinikonakaahanui Kaeo. I am calling on behalf of the beneficiary trust council and my Ohana on Moku Keawe. We firmly object any further desecration upon our national and Crown Lands that was illegally stolen by the United States of America. This Maunakea management plan is insufficient and you guys have received multitudes of support from University Hawai‘i teachers, faculty, and not only foreigners, but you guys successfully created these false Native Hawaiian leaders to speak on behalf of us – Larry Kimura, kanaka`oles. They do not speak on behalf of the Hawaiian nationals. So we object to any further desecration in the master plan which you guys have filled over 50 years and you guys shall not be building Maunakea, building TMT upon Maunakea anytime in the near future for the long seeing future for our keikis. Mahalo. Have a great day. Aloha.
13 INPUT RECEIVED VIA EMAIL FROM 123FORMBUILDER.COM
Date submitted: 10/6/2021  
Name: Terri Fonseca  
I am: Part kanaka, part haole  
City, State: Kīhei, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments:
**Date submitted:** 10/6/2021  
**Name:** Alfred Medeiros  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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<td><strong>Additional comments:</strong> There is no compromise to this situation, TMT will not be built on Mauna Kea and UH does not have the authority or power to force things to be as they want it to be, for financial gains. This is not about Anti-science, this is about stopping further desecration to our ʻĀina and stopping the lies that continue to happen to our people. WE HAVE A SAY AND WE WILL FIGHT IN EVERY WAY WE CAN TO BE HEARD!</td>
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Date submitted: 10/6/2021
Name: Steven Thomas
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Mililani, HI

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Additional comments: What will it take for you to understand that THIS CANNOT HAPPEN.. What will it take for you to understand that some of us are willing to DIE to prevent this! HEWA LOA ‘OUKOU!
Date submitted:  10/6/2021  
Name:  Ivy Iaea  
I am:  Kanaka Maoli (aka Native Hawaiian)  
City, State:  Puna, HI  

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  
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Additional comments: Enough is enough!!! We will always stand to Mauna Kea and never allow the TMT to be built. Do you not hear us? See us, care about our cultural practices?
**Date submitted:** 10/6/2021  
**Name:** Tye Jazo  
**I am:** non-Native Hawaiian  
**City, State:** Palmer, AK

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**Additional comments:** Please stand with all kanaka and the aina please be the hero of the people and the land where you live
**Date submitted:** 10/6/2021  
**Name:** Philamer Felicitas  
**I am:** non-Native Hawaiian  
**City, State:** Waipahu, HI

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**Additional comments:** The audacity that a local university that bares the words Ua Mau ke Ea o ka ‘Āina i ka Pono in its seal would side with TMT who would do just that is embarrassing and goes against the values that that phrase stands for. DO NOT WORK WITH TMT AND LEAVE THE LAND Alone.
Date submitted: 10/6/2021
Name: Tyler Fitzsimmons
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:

- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.

- Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea.

- Three Mauna Kea protectors arrested on April 2, 2015 and 38 respected elders arrested on July 17, 2019. They were arrested for standing in opposition to the building TMT and the desecration of Mauna Kea.

- On September 12, 2021, the UH released its draft Master Plan for Mauna Kea to the public. YET despite decades of Hawai'i's native people saying NO to any further development and 12 years of strong community opposition to the building of TMT atop Mauna Kea the UH (a publicly supported institution of higher learning) continues to make the building of TMT and development a priority.

- The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands.

- Furthermore, the UH has no jurisdiction to block access to the Mauna Kea summits and should not be allowed to extend their lease beyond the current lease expiration of 2033. No means no!

- Lastly, the Kanaka Maoli people and the wider community are being asked to comment on multiple plans related to lease extensions on Mauna Kea within a very short period of time. The US military was recently asking for comments on the Pohakuloa Training Area EIS and the UH is asking for comments on the Hōkū Kea Telescope and the Caltech Submillimeter Observatory decommissioning while simultaneously asking for comments on their Mauna Kea Master Plan all under the cover of Covid-19 restrictions. Shame on the UH!

Additional comments:
Date submitted: 10/6/2021
Name: Kara Kelai
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: X Kalihi Street, HI

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Additional comments:
**Date submitted:** 10/6/2021  
**Name:** Charlene Holani  
**I am:** Pacific Islander  
**City, State:** Hilo, HI

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**Additional comments:** NO ABSOLUTELY NO CONCENT FROM MAJORITY OF HAWAII TO THE BUILD OF TMT
Date submitted: 10/6/2021
Name: Lani Kwon
I am: non-Native Hawaiian
City, State: Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | X |
| For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. |

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | X |
| There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending. |

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | X |
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Additional comments: Stop.
**Date submitted:** 10/6/2021  
**Name:** Nanea Lo  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending. | X |
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**Additional comments:**
Date submitted: 10/6/2021
Name: Tom Iwanicki
I am: non-Native Hawaiian
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.

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Additional comments: I am a scientist at UH and the continued desecration of the Mauna causes me great shame. A'ole TMT!
Date submitted: 10/6/2021
Name: Melissa Tomlinson
I am: non-Native Hawaiian
City, State: Lafayette, CA (Ohlone)

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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X

Additional comments: There will be resistance to any more telescopes being built every step of the way. Mauna a Wakea must be protected for so many reasons including the generations to come. The cultural significance of Mauna Kea is so vast and should be enough for everyone to not want to build anything on top to protect all Kānaka Maoli. Right now the restoration of Mauna Kea is of the utmost importance. Looking out into space in great and necessary in our evolution, but the universe will be there. Climate crisis, protecting every precious part of the ecology that is functioning is critical, like the coral, like the birds and plants, the Ohi’a, the people. Can we see to space enough to focus more on repairing the harm that has been caused? The ‘Āina doesn’t exist for our exploitation
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**Additional comments:** This is unacceptable action on your part....WE THE PEOPLE SAID NO!!! OUR SACRED PLACE!!! NOT YOURS!!!
Date submitted: 10/6/2021
Name: Emily Pahinui
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waialua, HI

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Additional comments:
Date submitted: 10/6/2021
Name: Kealoha Pisciotta
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Ola’a, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/6/2021
Name: Martin Pahinui
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waialua, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
**Date submitted:** 10/6/2021  
**Name:** Aleka Pahinui  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waialua, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
Date submitted: 10/6/2021
Name: Māhealani Ahia
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaneohe, HI

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X

Additional comments: No consent!
**Date submitted:** 10/6/2021  
**Name:** Noelani Ahia  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waiehu, Maui, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
**Date submitted:** 10/6/2021  
**Name:** Kaialii Roberts  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kea’au, HI

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**Additional comments:**
**Date submitted:** 10/6/2021  
**Name:** Kaneali’ikeikioka’aina Williams  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kuiaha, Ha’iku, Hamakualoa, Maui, HI

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**Additional comments:** Mauna Kea has been labeled as supposedly “Ceded Lands”; those supposed “Ceded Lands” are Crown Lands of the Hawaiian Kingdom government which is active. UH does not have a commercial contract with the Crown, and therefore UH does not authorization to be operating any commercial activity, including management, pertaining to Mauna Kea. UH has not jurisdiction and is to cease and desist.
Date submitted: 10/6/2021  
Name: Natalie Trevino  
I am: non-Native Hawaiian  
City, State: Fraser, MI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
**Date submitted:** 10/6/2021  
**Name:** Piper Harron  
**I am:** non-Native Hawaiian  
**City, State:** Toronto, Canada

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**Additional comments:** I was a postdoc at UH Manoa and spent time with the student kiaʻi sit in. Lasser and UH admin are in over their heads and have never been able to reconcile the obligations of taking care of the land as an Indigenous serving institution on stolen land. Going forward with TMT is in direct contradiction of the mission and vision of UH and it is only fear, cowardice, and incompetence that prevents them from doing what is right. ‘Aʻole TMT.
**Date submitted:** 10/6/2021  
**Name:** Kaui Pratt-Aquino  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** O‘ahu, HI

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**Additional comments:**
**Date submitted:** 10/6/2021  
**Name:** Renee Winchester  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaneohe, HI

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**Additional comments:**
Date submitted: 10/7/2021  
Name: Leilani Pupuhi  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Puna, HI

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Additional comments:
**Date submitted:** 10/7/2021  
**Name:** Keānuenu Pupuhi  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

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**Additional comments:**
Date submitted: 10/7/2021  
Name: Paul Pupuhi  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Kalua`aha, HI

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Additional comments:
**Date submitted:** 10/7/2021  
**Name:** Chelsea Pupuhi  
**I am:** non-Native Hawaiian  
**City, State:** Kalua`aha, HI

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**Additional comments:**

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**Date submitted:** 10/7/2021  
**Name:** Harley Kane  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wai`anae, HI

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Date submitted: 10/7/2021
Name: Mapuana Kalaniopio-Cook
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hāna, Maui, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: I agree to all the above statements. The kanaka maoli have spoken, no means NO! No TMT, no lease extensions, delete any and all inferences to Mauna Kea concerning the building of the TMT.
Date submitted: 10/7/2021
Name: Kaleinani Taylor
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI, HI

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Additional comments:
Date submitted: 10/7/2021
Name: Nohealani Frizzell
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waimanalo, HI, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/7/2021  
Name: Claudia Claire Kapiolani Quintanilla  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: X Hoakalei Street, HI

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Additional comments: No MEANS NO! Kūʻē!
**Date submitted:** 10/7/2021  
**Name:** Emma Oto-Pale  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** North Las Vegas, NV

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**Additional comments:**
Date submitted: 10/7/2021
Name: Livia Solari
I am: non-Native Hawaiian
City, State: Oakland, CA

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Additional comments: TMT will never be built.
Date submitted: 10/7/2021  
Name: Ethan Levin  
I am: non-Native Hawaiian  
City, State: Fishtail, MT

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**Additional comments:**
**Date submitted:** 10/7/2021  
**Name:** Rebekah Luke  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaawa, HI

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**Additional comments:**
Date submitted: 10/7/2021  
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I am: non-Native Hawaiian  
City, State: Kapolei, HI

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Additional comments: TMT should not have ever been considered to be built it haas never been in Kānaka best interest
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- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.

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**Additional comments:**
Date submitted: 10/7/2021
Name: Mariana Monasi
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
**Date submitted:** 10/7/2021  
**Name:** ʻAliihilani Katoa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:** No TMT. No treaty.
**Date submitted:** 10/7/2021  
**Name:** Alec Marentic  
**I am:** non-Native Hawaiian  
**City, State:** Mountain View, HI

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**Additional comments:**
Date submitted: 10/7/2021
Name: Peggy McArdle
I am: non-Native Hawaiian
City, State: Kailua Kona, HI

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Additional comments: Pursuing TMT on the summit of Mauna Kea is a continuation of further acts of violence on indigenous communities
Date submitted: 10/7/2021  
Name: Norman Gaspar  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Hawaiian Kingdom,

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Additional comments:
**Date submitted:** 10/7/2021  
**Name:** Cookie Akau-Gaspar  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hawaiian Kingdom,

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**Additional comments:**
**Date submitted:** 10/7/2021  
**Name:** Chavella Espinosa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kahuku, HI

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**Additional comments:**
Date submitted: 10/7/2021
Name: Aurreyana Hauoli
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Lawton, OK

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Additional comments:
Date submitted: 10/7/2021
Name: Kalani Garcia
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/7/2021
Name: Jordan Elicker
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/7/2021
Name: Tanya Pale
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaunakakai, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
Date submitted: 10/7/2021
Name: Kala‘i Joy
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments: Kanaka Maoli and people around the world have shown a large opposition to the construction of the TMT and to ignore that is wrong. You all know it is wrong and immoral so why do you continue to ignore us? We will never stop fighting for our land or our rights as the indigenous people of Hawai‘i.
**Date submitted:** 10/7/2021  
**Name:** Jen Holani  
**I am:** non-Native Hawaiian  
**City, State:** Hilo, HI

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**Additional comments:** WE DO NOT GIVE CONCENT FOR TMT UH HAS WRONGFULLY MANAGED MAUNAKEA AND SHOULD BE BANISHED FROM FURTHER DEVELOPMENT OF ANY TELESCOPES ON MAUNAKEA AS WELL AS CLEAN UP ALL THE MESS FROM PAST TELESCOPES
Date submitted: 10/7/2021
Name: Cindy Jepsen
I am: non-Native Hawaiian
City, State: Lā'ie, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments: The only right thing to do is end UH control and decommission and remove every trace of the telescopes and other rubbish off of Maunakea.
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- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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X

Additional comments:
Date submitted: 10/7/2021
Name: Nikos Leverenz
I am: no answer
City, State: Honolulu, HI

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Additional comments: Recent decades have shown that UH has not been a good steward of Mauna Kea's natural and cultural resources. Its mismanagement includes not obtaining anything resembling fair market value from its business partners to operate at the summit. It has also ignored federal environmental reviews finding a deleterious impact of more projects. The management of Mauna Kea is better suited to a government or nonprofit agency that can better center the express needs of Hawai'i's indigenous population.
Date submitted: 10/8/2021
Name: Jensen Villaflor
I am: non-Native Hawaiian
City, State: Honolulu, HI

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X

Additional comments: The UH also claims to support indigenous Hawaiian knowledge and claims to be a center for learning and collaborating with Hawaiian people. Actions by the university must reflect that. It cannot be self-serving lip service to make the UH seem special, tolerant of the people are whose dispossession enables its existence. Science is not a part from culture. Science can and has been a tool of great violence, do not forget that. Do not further perpetuate that.
**Date submitted**: 10/8/2021  
**Name**: Dianne Deauna  
**I am**: non-Native Hawaiian  
**City, State**: Honolulu, HI

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**Additional comments:**
**Date submitted:** 10/8/2021  
**Name:** Cerina Sanchez  
**I am:** Native American Indian  
**City, State:** Honolulu, HI  

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**Additional comments:** As a student at the university of Hawaii, I do not agree with the actions of my institution, they should not start building on kanakas land for it is scared.
Date submitted: 10/8/2021  
Name: Jana Julian  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

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Date submitted: 10/8/2021
Name: Taysia Tangjian
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waiʻanae, HI

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**Date submitted:** 10/8/2021  
**Name:** Adam Po’oloa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

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**Additional comments:** ‘Aʻole UH ‘aʻole TMT
**Date submitted:** 10/8/2021  
**Name:** Kealiʻimakamaʻonalani Poʻoloa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

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**Additional comments:** UH has grossly mismanaged Mauna Kea all these years and it’s time a commission for the protection and preservation of our highest altar be run by those who led the massive protests of 2019.
Date submitted: 10/8/2021
Name: James Jack
I am: non-Native Hawaiian
City, State: , Singapore

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**Additional comments:** No means no please respect indigenous land, people and save stars for navigation not for destruction of this sacred site.
**Date submitted:** 10/8/2021  
**Name:** Trina Kahalewai  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Las Vegas, NV

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**Additional comments:** NO TO TMT!!! KEEP HAWAII HAWAIIAN!!! KEEP HAWAIIAN LANDS IN HAWAIIAN HANDS!!!
Date submitted: 10/8/2021
Name: Kaimana Pacatang
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kōʻele, Lānaʻi, HI

Opposition to the University of Hawaiʻi (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawaiʻi and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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Additional comments: The fact that we are even still talking about TMT is ridiculous. Kānaka across the entire world have spoken: we’ve had ENOUGH of the mismanagement of Mauna Kea, and we will ALWAYS return to protect the mauna!
Date submitted: 10/8/2021
Name: Sautia Tanoa
I am: non-Native Hawaiian
City, State: Honolulu, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments: It’s unconscionable that UH has maintained their stance on desecrating a sacred place that’s central to native Hawaiian culture and identity given that Mauna Kea is a part of Hawaiian cosmology. This is shameful and as a Hawai‘i resident who was born and raised in the islands, I view the building of TMT as an inadvertent (or explicit) neocolonial tactic to cultural erasure much in the same way that State tried to when the government outlawed ʻōlelo Hawai‘i in 1896. The State has since made great progress on that front with the immersion of Hawaiian charter schools and for UH to continue this assault on Mauna Kea is a major step backwards from fortifying Hawaiian culture and is also contributing to the already existent polarization between settlers and kānaka ʻōiwi as well as racism against Hawaiians.
Date submitted: 10/8/2021
Name: Natasha Kahana
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hilo, HI

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Additional comments: We will stand in solidarity for Mauna Kea forever. It is a shame that the management of Mauna Kea continues to be led by corrupted, blood sucking, and destructive entities. The majority of "Public" lands are "Ceded Lands" Hawaiian Kingdom Crown Lands that are meant to be designated for the good of the public, including the benefits of Kanaka Maoli (Native Hawaiians) and their descendants. The Office of Maunakea Management, University of Hawai'i at Hilo, Board of Land and Natural Resources, continue to fail to protect our "natural resources" that sustains life by allowing "Public" lands to be used for commercial, mixed, industrial, government use, etc. without communicating with the people of this land concerns for over 65 years. This needs to end. We the kanaka (people) of this land refuse to continue to allow this desecration to Papa (our earth mother). Do what is right for the land, once the damage is done, it is never the same AGAIN. STOP THE DESECRATION BEFORE IT IS TOO LATE. Kūpaʻa ma hope o ka ʻāina (ever loyal to the land)!
Date submitted: 10/8/2021
Name: Sherry Shimizu
I am: non-Native Hawaiian
City, State: Pearl City, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/8/2021
Name: Ellen-Rae Cachola
I am: non-Native Hawaiian
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/8/2021  
Name: Paul Langis  
I am: non-Native Hawaiian  
City, State: Whittier, CA

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Additional comments:
Date submitted: 10/8/2021
Name: Alexander Mancevice
I am: White
City, State: Brooklyn, NY

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**Date submitted:** 10/8/2021  
**Name:** Brett Jones  
**I am:** non-Native Hawaiian  
**City, State:** Kaneohe, HI

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**Additional comments:**

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**Page 897**
**Date submitted:** 10/8/2021  
**Name:** Erika Arriba  
**I am:** non-Native Hawaiian  
**City, State:** Kalihi, O‘ahu, HI

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**Additional comments:**
**Date submitted:** 10/8/2021  
**Name:** Celine Milla  
**I am:** non-Native Hawaiian  
**City, State:** San Diego, CA

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**Additional comments:**
**Date submitted:** 10/8/2021  
**Name:** Sonja Mapuana Collins  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kapolei, HI

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**Additional comments:**
Date submitted: 10/8/2021  
Name: Joseph Wat  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

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Additional comments: I am disappointed to see that the continuation of this discussion is necessary. The mauna is sacred and the people don’t want this telescope. Please understand that this movement and commitment to ʻāina is BUILDING and will not decrease as time goes on. Make alternate plans and invest UH resources into community supported projects.
Date submitted: 10/8/2021  
Name: Candace Fujikane  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

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Additional comments:
**Date submitted:** 10/8/2021  
**Name:** Priyanka Bhakta  
**I am:** non-Native Hawaiian  
**City, State:** Fountain Valley, CA

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**Additional comments:**
Date submitted: 10/8/2021
Name: Monica Texeira
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hanapēpē, HI

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Additional comments:
**Date submitted:** 10/8/2021  
**Name:** Justus Arthur  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waimanalo, HI

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I am: non-Native Hawaiian  
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/8/2021
Name: Tei Ryu
I am: Asian
City, State: Honolulu, HI

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Date submitted: 10/8/2021
Name: Jacob Shearer
I am: non-Native Hawaiian
City, State: Honolulu, Kona, Oʻahu, HI

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Additional comments: The duty of the University and the State should be to preserve this wahipana for all future generations to come. Allowing foreign and non-native influences to determine the future of Mauna Kea is unacceptable.
Date submitted: 10/8/2021
Name: Kāpīʻolani Martin
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kona, HI

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**Date submitted:** 10/8/2021  
**Name:** E. Kalikoaloha Martin Jr  
**City, State:** ,

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**Additional comments:** Kūʻē loa nō hoʻi au i kēia papahana, ʻoiua ʻōlelo maua ka lāhui Hawaiʻi i nona kēia ʻāina no ka hana hewa mau o ke kulanui ma luna o ka maua ʻihiʻihi a kapu loa. ʻAʻole na ke kulanui e alakaʻi i ka mālama ʻana i ka ʻāina o ka Hawaiʻi. Na ka Hawaiʻi nō e mālama aku i ko lākou ʻāina iho. A na mākou ka poʻe malihini e kākoʻo a e kōkua ma hope o lākou nā Hawaiʻi. E kūʻē kākou a hiki i ke aloha ʻāina hope loa! [Approximate English translation: I am strongly opposed to this project, since the Hawaiian people have always said that this land belongs to the university because of the constant wrongdoing of the university on our most sacred and sacred. The university did not take the lead in managing the land of Hawaiʻi. The Hawaiians would take care of their own land. And it is up to us, the foreigners, to support and help the Hawaiians behind them. Let's fight until the last patriotism!]
**Date submitted:** 10/8/2021  
**Name:** Maile Blume  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | X |
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**Additional comments:**
Date submitted: 10/8/2021
Name: Sam Ikehara
I am: non-Native Hawaiian
City, State: Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: -For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments:
Date submitted: 10/8/2021
Name: Katherine Burke
I am: non-Native Hawaiian
City, State: Kaneohe, HI

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Additional comments: The trauma this is causing Native Hawaiians is unacceptable and directly impacts their health and well-being, which impacts us all. Non-Hawaiians should have no plans for spaces that are sacred to Native Hawaiians, that is their birthright to protect. The only role for non-Hawaiians is to support Native Hawaiians in those efforts to protect and preserve the ecosystem for future generations, efforts that benefit us all.
**Date submitted:** 10/9/2021  
**Name:** Donald Kaiahuia 3rd  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/9/2021
Name: Nolen Kekawa
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: NĀNĀKULI, WAI’ANAE, HI

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Additional comments: LEAVE MAUNAKEA ALONE
Date submitted: 10/9/2021
Name: Joseph Han
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/9/2021
Name: Carly Rose
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wahiawa, HI

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Additional comments:
**Date submitted:** 10/9/2021  
**Name:** Kapua Medeiros  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waimanalo, HI

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**Additional comments:** NO More Telescopes! Mauna a Wākea is a precious resource that has already been desecrated by many Telescopes...Enough is Enough!! ‘A’ole TMT.
**Date submitted:** 10/9/2021  
**Name:** Theresa Kekawa-Kāhili  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:** “Only when the last tree has been cut down, the last fish been caught, and the last stream poisoned, will we realize we cannot eat money.”
Date submitted: 10/9/2021
Name: LIANA CORTEZ-KEKAWA
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waiʻanae, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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X

Additional comments: PLEASE JUST LEAVE OUR LANDS ALONE ALREADY
Date submitted: 10/9/2021
Name: Kimberley Marcelo
I am: non-Native Hawaiian
City, State: Wailuku, HI

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- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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**Date submitted:** 10/9/2021  
**Name:** Christian Hernandez  
**I am:** non-Native Hawaiian  
**City, State:** Mililani, HI

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**Additional comments:**
**Date submitted:** 10/9/2021  
**Name:** ʻAuliʻi Nathaniel  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Houston, TX

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**Additional comments:**
Date submitted: 10/9/2021  
Name: Isis Usborne  
I am: non-Native Hawaiian  
City, State: Aiea, HI

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Date submitted: 10/9/2021
Name: Breanna Raines
I am: non-Native Hawaiian
City, State: San Diego, CA

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Additional comments:
**Date submitted:** 10/9/2021  
**Name:** Puanani Apoliona-Brown  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/9/2021
Name: Marin Char
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hauula, HI

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Additional comments:
Date submitted: 10/9/2021
Name: Ann Malluwa Wadu
I am: non-Native Hawaiian
City, State: Arlington, VA

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Additional comments:
Date submitted: 10/9/2021
Name: Doris Yang
I am: non-Native Hawaiian
City, State: Honolulu, HI

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**Date submitted:** 10/9/2021  
**Name:** Kylie Akiona  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Mililani, O'ahu, HI

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**Additional comments:** When I have to submit my proposal for my senior thesis for just interviews alone, I need to submit for IRB approval. Without consent from interviewees, I would never receive approval to move forward with my research. Yet, none of the telescopes on the Mauna today have the consent of Kānaka Maoli. Why are the standards for gigantic telescopes with millions and billions of dollars in resources and boards of educators and “scholars” so low? It’s time for TMT and all other telescopes to understand that their research has ZERO legitimacy without the consent of the Native people and the Native land they desecrate. The inter generational trauma that this “research” and the strain on the Kanaka Maoli community is irreversible. Do not further harm what you know cannot be fixed.
**Date submitted:** 10/10/2021  
**Name:** Alyssa Kaapona  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:** Please be on the right side of history. Mahalo for your time.
Date submitted: 10/10/2021
Name: Victoria Gruen
I am: non-Native Hawaiian
City, State: Hunstville, AL

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Additional comments:
**Date submitted:** 10/10/2021  
**Name:** Shaeralee Manosa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Mana'e Moloka'i, HI

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**Additional comments:** Ua Mu Ke Ea I Ka Aina I Ka Pono
Date submitted: 10/10/2021
Name: Marc-Wayne Smith
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaunakakai, HI

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Additional comments:
Date submitted: 10/10/2021
Name: MehanaO'kala Pupuhi-Togia
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaunakakai, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/10/2021  
**Name:** Jarmaine Yamashiro  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kailua, HI

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**Additional comments:**
Date submitted: 10/10/2021
Name: Florence Kong
I am: no answer
City, State: Kaunakakai, HI

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Additional comments: Let's do it
**Date submitted:** 10/10/2021  
**Name:** Hooipo Bertelmann  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kamuela, HI

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**Additional comments:** I don’t think anyone should be able to lease the top of the mountain and it should be left to the gods. If Hawaii doesn’t want anything on MAUNA Kea then nothing should be on the top of Mauna Kea. Okay there are the 5-10 Hawaiian scientists that support this project but what about the 1,000s of Hawaiians who don’t.
Date submitted: 10/11/2021
Name: Cesar Hernandez
I am: Californian
City, State: Portland, OR

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Additional comments:
**Date submitted:** 10/11/2021  
**Name:** Makena Willette  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hollister, CA

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**Additional comments:**
Date submitted: 10/11/2021
Name: Nainoa Heaston
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaneohe, HI

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Date submitted: 10/11/2021  
Name: Susan Ching Harbin  
I am: non-Native Hawaiian  
City, State: Mililani, HI

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Additional comments: In conclusion, the Mauna Kea summit has been mismanaged for decades. This proposal for the TMT is another example of missing the mark of what the people of Hawaii want. I am vehemently opposed to including the TMT in the master plan for this mountain. Please come to the table with a plan to support the people of Hawaii, it should include ecological restoration at the forefront of the design and allow a voice to native peoples.
**Date submitted:** 10/11/2021  
**Name:** Thomas Diamanty  
**I am:** non-Native Hawaiian  
**City, State:** Wilmington, DE

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**Additional comments:**
**Date submitted:** 10/11/2021  
**Name:** Meline Cardona  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Henderson, NV

**Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:**

- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.

- Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea.

- There were 31 Mauna Kea protectors arrested on April 2, 2015 and 38 respected elders arrested on July 17, 2019. They were arrested for standing in opposition to the building TMT and the desecration of Mauna Kea.

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- The indigenous people of Hawai'i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands.

- Furthermore, the UH has no jurisdiction to block access to the Mauna Kea summits and should not be allowed to extend their lease beyond the current lease expiration of 2033. No means no!

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**Additional comments:** I strongly oppose the UH Mauna Kea Master Plan.
Date submitted: 10/11/2021
Name: Tiffany Vasquez
I am: non-Native Hawaiian
City, State: Oakland, CA

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Additional comments:
**Date submitted:** 10/11/2021  
**Name:** Hōʻolu Cravalho  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Pacific Palisades, HI

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**Additional comments:** Are you not hearing us? Do you not care? How can you continue to move forward with a plan to build TMT on Mauna Kea when there has been a resounding cry from the Native Hawaiian community and the people of Hawai‘i to STOP? ENOUGH IS ENOUGH!
Date submitted: 10/11/2021  
Name: Arden Sparks  
I am: non-Native Hawaiian  
City, State: Spokane, WA

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Additional comments:
Date submitted: 10/11/2021
Name: Mahina Apuna
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Spokane, WA

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Additional comments:
Date submitted:  10/11/2021
Name:  Jenna Puanani Horner
I am:  Kanaka Maoli (aka Native Hawaiian)
City, State:  Phoenix, AZ

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  X

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Additional comments:
Date submitted: 10/11/2021
Name: Matthew Hobson
I am: former resident
City, State: Phoenix, AZ

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Additional comments: Hello. I’m writing as a friend of the Kanaka Maoli, and a former resident of Lahaina. I urge you to consider the voices of the people of Hawaii and what they have said for many years now regarding the building of the 30 meter telescope on Mauna Kea. To continue with this development despite an enormous and global show of opposition by native and non-native peoples is just a modern interpretation of the many violations of indigenous values and sanctity. Putting the interests of science, whether it be one university or of space-curious people everywhere, over the urgent and human rights of a group is not just. Please listen to the people of Hawaii and do not build telescopes on their most sacred landscape.
Date submitted: 10/11/2021
Name: Jennifer Newbrey
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Pearl City, HI

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Additional comments: Please hear our people.
**Date submitted:** 10/11/2021  
**Name:** Mia Liang  
**I am:** non-Native Hawaiian  
**City, State:** Seattle, WA

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:–For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
**Date submitted:** 10/11/2021  
**Name:** Anthony Newman  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Petaluma, CA

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**Additional comments:**
### Additional comments

- Development of any sort, must and should only be decided by the Native people of these islands.
**Date submitted**: 10/11/2021  
**Name**: Lujain Ali  
**I am**: non-Native Hawaiian  
**City, State**: Cairo, Egypt

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: |-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments**: 

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**Name:** Meghan Walles  
**I am:** non-Native Hawaiian  
**City, State:** Makawao, HI

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**Additional comments:** Listen to the people and stewards of this land! If this institution claims to empower Native Hawaiians through education, yet cut their legs from underneath them by supporting the desecration of a sacred site while placing local families and Hawai'i island at financial and ecologic harm—YOU ARE PART OF THE PROBLEM NOT THE SOLUTION! Stop now and shame on University of Hawai'i!
Date submitted: 10/12/2021
Name: Kaimi Mullaney
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/12/2021  
**Name:** Sabrina Jimenez  
**I am:** non-Native Hawaiian indigenous Mexican  
**City, State:** Pasadena, CA

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**Additional comments:**
Date submitted: 10/12/2021
Name: Megan Malcolm
I am: non-Native Hawaiian
City, State: Haiku, HI

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**Date submitted:** 10/12/2021  
**Name:** Lori Kulhavy  
**I am:**  
**City, State:** Ulupalakua, HI

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**Additional comments:** Recognize the rights of the nation of Hawaii. There is no way around it. The days of stealing and desecration are over. Please get on board now and help the cause of truth and justice.
Date submitted: 10/12/2021
Name: Michele Kaeo
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waimanalo, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: A‘OLE TMT! No means , No.
Date submitted: 10/12/2021  
Name: Donna Kealohanui  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Waimanalo, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | X |
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Additional comments: Stop trying negotiate our ‘āina it is not yours to negotiate stop desecrating our ‘āina we belong to papa and wakea
**Date submitted:** 10/12/2021  
**Name:** Jane Au  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Haleiwa, HI

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**Additional comments:**
Date submitted: 10/12/2021
Name: Mahealani Martin
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments: ALOHA, I AM OPPOSED TO YOUR SO CALLED MASTER PLAN OF FRAUD DESECRATION COLONIALISM OPPRESSION UNLAWFUL MANAGERIAL INCOMPETENCY ON OUR MAUNA. IT IS TIME TO LET GO OFF THIS PROJECT AND GIVE BACK ALL MONIES (KICKBACKS) TO GET TMT BUILT. GO BUILD YOUR WEAPON OF MASS DESTRUCTION ON TOP MOUNT FUJI OR SOMEWHERE ELSE. ITS ENOUGH THAT THE LANDS THE US AND STATE OF HAWAII (PROVISIONAL GOVERNMENT) ARE IN GREAT BREACH OF TRUST ACCORDING TO LATEST AUDIT. WAR CRIMES ARE DOCUMENTED AND WE WILL NEVER LET SETTLER COLONIZERS WITH NO ALOHA FOR HAWAII OR ITS ABORIGINAL PEOPLE ANYMORE. SHUT THIS HEWA ACTION DOWN!! JUST BECAUSE STEALING LAND BY THE US, SOH, AND MILITARY DOESN'T MAKE IT RIGHT FOR OTHER CORPORATE AGENCIES TO DO THE SAME CORRUPT ACTS. GET THE HELL OFF OUR MAUNA!! A'OLE PONO HAOLES GO BACK TO YOUR OWN COUNTRY AMELIKA USA!!! SEE YOU ON THE MAUNA!!
Date submitted: 10/12/2021
Name: Tiana Dole
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments: Enough is enough we don’t want TMT anywhere near or atop oof Mauna Kea!
Date submitted: 10/12/2021
Name: Calista Schloessmann
I am: non-Native Hawaiian
City, State: Kalispell, MT

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Additional comments: Dear UH Executive Leadership, It is your obligation to listen and heed the requests of native Hawaiians who want to keep their land free. After the US stole the indigenous Hawaiian islands from its rightful owners, it is our obligation to halt construction of TMT on Mauna Kea. Respect that it is a sacred site and that people who worship it and who are connected to its history should not have to fight for their basic rights to their own land. I am in opposition of TMT construction project.
Date submitted: 10/12/2021
Name: Eric Luke
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Makawao, HI

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Additional comments: Have some integrity and just stop. It is not your place to do these things on the mountain.
Date submitted: 10/12/2021  
Name: Molly Mariko Hui  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Kamuela (Waimea), HI

### Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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### Additional comments:
A'OLE TMT
Date submitted: 10/12/2021
Name: Randee Golden
I am: non-Native Hawaiian
City, State: Kapaʻau, HI

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Additional comments: We must protect this land for generations to come. Sacred places are sacred for a reason. It is way past time to listen to the Kanaka Maoli and environmentalists, and people like me who know we need to protect our watershed.
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Additional comments: As an additional comment, I will add that I hold an undergraduate and Master’s Degree from UH Mānoa as well as a Master’s in Law and Policy from Vermont Law School. The manner in which the proponents of this project are going about this process is: 1. In violation of the Scientific Precautionary Principle (2) A continued legacy of leveraging Supremacist State Power in order to further desecrate and colonize. The time for bulldozing over the voices of the land, in the name of western science is over. History has taught us that the hubris of institution is something to be wary of. Mahalo for doing the right thing.
Date submitted: 10/12/2021
Name: Audrey Wardach
I am: non-Native Hawaiian
City, State: Pā’ia, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: -For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments: Protect the Mauna for the sake of its sacredness and for the sake of future generations. The mauna is a relative, and should be treated with the utmost respect. Let’s focus the TMT efforts and budget on clearing away pollution and climate change instead; then everyone can see stars more clearly and sacred mountains can stay in peace.
Date submitted: 10/12/2021
Name: Holly Price
I am: non-Native Hawaiian
City, State: Pittsburg, CA

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | X |
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Additional comments:
Date submitted: 10/12/2021
Name: Angel Tengan
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Aiea, HI

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Additional comments: The halt of this project clearly means a lot to the indigenous people of Hawai‘i. As someone who is still fascinated with astronomy and supports its research, this is so much bigger than that. The land has already been damaged enough, and will only suffer more with the follow through of a plan like this. There are so many other places where a telescope like this would succeed, and not have to desecrate the sanctity of the land or destroy the ecosystem of it. Please permanently stop the construction of TMT on the Mauna.
Date submitted: 10/12/2021  
Name: Rachel Salvati  
I am: no answer  
City, State: San Diego, CA

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: -For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments:
**Date submitted:** 10/12/2021  
**Name:** Emma Condet  
**I am:**  
**City, State:** Grand Rapids, MI

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**Additional comments:** Please take into consideration the real and last effects building this unnecessary telescope will have on the people who’s ancestors have called this land home for thousands of years. You cannot be so heartless as to disregard that and allow that to go through. The world is watching and ultimately if this went through, you would go down in history as the villains you are. I don’t think it’s far fetched to call you villains when you are colonizing and stealing sacred land just the same as Christopher Columbus. Please respect the natives who’s land it is. Thanks you.
**Date submitted:** 10/12/2021  
**Name:** Jennifer Sicuranzo  
**I am:** non-Native Hawaiian  
**City, State:** Valhalla, NY

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**Additional comments:**
**Date submitted:** 10/12/2021  
**Name:** Olivia Maynard  
**I am:** non-Native Hawaiian  
**City, State:** Marquette, MI

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**Additional comments:**
**Date submitted:** 10/12/2021  
**Name:** Priscilla Meleisea  
**I am:** non-Native Hawaiian  
**City, State:** West Jordan, UT

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**Additional comments:** The indigenous people of this land have told you no, this is sacred to them. Be respectful of that no and stop. The fact that you are on stolen land, trying to take up more space on SACRED LAND is so disrespectful and violent. You should all feel ashamed of yourselves for ignoring the words and actions of the kanaka.
Date submitted: 10/12/2021  
Name: Alice Zumbé  
I am: Founder of environmental project „Bridge to Hawaii“  
City, State: Düsseldorf, Germany  

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Additional comments: The power of love It is all about power and it seems that the power of domination and money faces the power of love and can only lead to one solution: the experience shows that one side wins and thus the other loses. Here is the conflict on both sides. But when you feel connected to all people, you are not on one side and realize that the power of love is rooted in each one of us. And if you give it the priority then this means to make sure that everyone is comfortable, happy and satisfied and nobody comes to harm. Then it happens that someone changes the perspective because something does not feel right anymore and develops compassion for others. So much that contrary to his previous convictions he takes his influence in order to bring about social changes that create more peace in the minds & hearts of many. A victory for everyone.
**Date submitted:** 10/12/2021  
**Name:** Carena Phillips  
**I am:** non-Native Hawaiian  
**City, State:** Waikoloa, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X | 
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**Additional comments:** I believe in the community and indigenous rights of the Hawaiian people, and this is desecration of their sacred lands. I do not support the Building of TMT, nor do my family or friends!
**Date submitted:** 10/12/2021  
**Name:** Raven Begay  
**I am:** non-Native Hawaiian  
**City, State:** Fort Collins, CO

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**Date submitted:** 10/12/2021  
**Name:** Sophia Munoz  
**I am:** non-Native Hawaiian  
**City, State:** San Antonio, TX

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Date submitted: 10/12/2021
Name: Kailey Kane
I am: 
City, State: Aiea, HI

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Additional comments: For years you and your institution have ignored us in the name of money and big corporations. Now we are pleading, please hear our voices and our pain. End any further desecration of places that have been sacred to us since our kūpuna set their feet on this land.
**Date submitted:** 10/12/2021  
**Name:** Nikki Spears  
**I am:** White  
**City, State:** Wilmington, NC

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**Additional comments:** Please allow the Hawaiian native indigenous people to peacefully enjoy their home. Please end the destruction of their homeland and the nature of the Mauna. Let it be.
**Date submitted:** 10/12/2021  
**Name:** Olivia Taylor  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:**
**Date submitted:** 10/12/2021  
**Name:** Clara Martorano  
**I am:** non-Native Hawaiian  
**City, State:** , VT

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**Additional comments:** Protect Mauna Kea!
**Date submitted:** 10/12/2021  
**Name:** Lili’u Tomasello  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waimanalo, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:  
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**Additional comments:**
**Date submitted:** 10/12/2021  
**Name:** Kaleokalani Kailiwai  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kailua Kona, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:** Look else where to put this telescope. America has done enough damage already.
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**Date submitted:** 10/12/2021  
**Name:** Malia Williams  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Pāhoa, HI

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**Additional comments:**
Date submitted: 10/12/2021  
Name: Imani Altemus-Williams  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/12/2021  
Name: Sylvie Lee  
I am: non-Native Hawaiian  
City, State: Ookala, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/12/2021  
Name: Kyoko Bristow  
I am: non-Native Hawaiian  
City, State: Los Angeles, CA

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Additional comments: No to TMT. Follow the lead of Kanaka Maoli.
**Date submitted:** 10/12/2021  
**Name:** Makayla Willis  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
Date submitted: 10/12/2021
Name: Cecilia Reilly
I am: Irish
City, State: Wailuku, HI

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Additional comments: Everyone knows all the good pictures come from probes!! There's NO SENSE in risking the top of the watershed in the middle of the Pacific Ocean for ANY telescope and all the rest shld get cleaned up rn! No was emphatically the answer by kanaka maoli on THEIR LAND! No means NO!!
**Date submitted:** 10/12/2021  
**Name:** Joe Allen  
**I am:** non-Native Hawaiian  
**City, State:** College Station, TX

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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**Additional comments:**
**Date submitted:** 10/12/2021  
**Name:** Lori Kehaulani Pa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Edgewood, VA

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**Additional comments:** Please listen to the Hawaiians and stop giving out land away
**Date submitted:** 10/12/2021  
**Name:** Tasha Napaepae  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:** A‘ole (NO) TMT … EVER!
Date submitted: 10/12/2021
Name: Melaina Lenzi
I am: no answer
City, State: Newport, WA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments: Mauna Kea belongs to the indigenous people of Hawaii. They have the legal, historical and inherited right to protect their land. The Kanaka Maoli people and their protection of the sacred mountain of Mauna Kea must be respected. We demand any construction to cease. I do not consent to the building of the thirty meter telescope on Mauna Kea.
Date submitted: 10/12/2021  
Name: Naomi Kim-Davis  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Mililani, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/12/2021
Name: Jeremy Lemke
I am: Native Hawaiian and non-Native Hawaiian
City, State: Rancho Cucamonga, CA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/12/2021
Name: Malialani Dullanty
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Laupahoehoe, HI

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Additional comments: My family lives in the shadow of the Mauna. We rely on her. And using her for development puts her and us in danger..
**Date submitted:** 10/12/2021  
**Name:** Ros Paul  
**I am:** non-Native Hawaiian  
**City, State:** Pleasant Hill, CA

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**Additional comments:** For many years Native Hawaiians have rejected this plan for many reasons including its effect on the watershed. Water is our most important resource. It’s crucial we listen.
**Date submitted:** 10/12/2021  
**Name:** Maggie Schultz  
**I am:** non-Native Hawaiian  
**City, State:** Kīhei, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:** I strongly suppose TMT being built on sacred land. The University of HI has a responsibility to serve and the community which strongly applies the construction of TMT.
Date submitted: 10/12/2021  
Name: Ranette Punna Robinson  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Hilo, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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Additional comments: I am one of 38 arrested for obstruction in 2019 and one of the four so far that was found not guilty. Please remember that the Mauna is in a Conservation District Zone and tmt should not be allowed in this type of zoning district. Enough is enough!! Mahalo.
**Date submitted:** 10/12/2021  
**Name:** Jezelyn Gonsalves  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Lahaina  

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
**Date submitted:** 10/12/2021  
**Name:** Luana Rivera Palacio  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Santa Ana, CA

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:  
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**Additional comments:** Protect the Sacred - A‘ole TMT
Date submitted: 10/12/2021
Name: Sharon Holck-Lono
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Indianapolis, IN

Opposition to the University of Hawai’i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai’i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments: The rights of our people have been pushed down for far too long. They have build too many telescopes already. They can find somewhere else. Leave our mauna for our people and for our future generations.
**Date submitted:** 10/12/2021  
**Name:** Jennifer Mitchell  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kailua Kona, HI

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**Additional comments:** No more desecration on Mauna Kea- NO TMT on Mauna Kea!
**Date submitted:** 10/12/2021  
**Name:** Alyssa S  
**I am:** non-Native Hawaiian  
**City, State:** Williamstown, NJ

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**Additional comments:** Please listen to native Hawaiians and halt the building of TMT.
Date submitted: 10/12/2021
Name: Meredith Powell
I am: no answer
City, State: Franklin, MA

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Additional comments:
**Date submitted:** 10/12/2021  
**Name:** Lisa Grandinetti  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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Date submitted: 10/12/2021  
Name: H Guzman  
I am: no answer  
City, State: Honolulu, HI

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Additional comments: You’ve repeatedly stated that you want to hear from the native Hawaiian community, yet, when a majority of us voice oppositions to ANY and ALL CONSTRUCTION on the Mauna, you ignore us. You look the other way. Native Hawaiians and local people oppose the building of TMT or any other works on the Mauna because the Mauna holds religious value to the very people whose land you live on. This is a form of colonization and disrespect as you desecrate and show clear ignorance towards native beliefs. The very people who are far to often left behind by the government. DO NOT do any more construction on the Mauna because it is the just and respectful thing to do. Prove that you are listening.
Date submitted: 10/13/2021
Name: Eric Salazar
I am: non-Native Hawaiian
City, State: New York, NY

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Additional comments: I am here making use of a form circulated by ethnic Hawaiian opponents to TMT, through which they hope many people will submit the points stated above even without understanding them. Most of those points are false or misleading. Here are my own comments. I want to encourage you advisors and decision-makers to reject the racial divisiveness of the protestors, and to support the construction of TMT with appropriate safeguards for environmental protection and standards for employment and visitation that will not mandate promulgation of or propagandizing for any ethnocentric cultural or religious views. The Hilo/Kona newspapers quote the Ka Lahui spokesperson speaking at a recent hearing, who concluded: "Any plan for the future of the mauna has to come from Kanaka Maoli." Of course that is false as a matter of fact, and wrong as a matter of morality. It displays the racism and routine arrogance of the ethnic Hawaiian race-nationalists, whose creation legend is part of their religious fascism in which they think every parcel of land is sacred to their gods and their ethnicity. Of course they have a right to whatever religion they choose to believe in -- but the rest of us have no obligation to knuckle under to them. In our society with many races, cultures and religions, we all must fight to protect full equality for everyone. We are all equal in the eyes of God(s) and we should all be treated equally under the law by our government. Hawaiian race-nationalists think people with a drop of the magic blood have a right to set land-use policy and govern Hawaii because their creation legend says they are genetically children of the gods and brothers/sisters to the land in a way nobody else can ever be who lacks a drop of that blood. The Hawaiian version of critical race theory says Whites are inherently racist colonialist oppressors and ethnic Hawaiians are their main victims with a right to take control by any means
necessary. People in Hawaii are horrified at White-nationalism on the mainland, but strangely silent about Hawaiian race-nationalism here. The fascists say "Any plan for the future of the mauna [or any other part of Hawaii] has to come from Kanaka Maoli." These zealots will never abide by decisions made by multiracial legislatures or government hearings. What they say should be treated as logically irrelevant to decision-making. They have freedom to say it, but the rest of us have the right to reject it.
Date submitted: 10/13/2021
Name: Cara Fernandez
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua, HI

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Additional comments:
Date submitted: 10/13/2021
Name: Patricia ‘Aunty Momi’ Greene
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua-Kona, HI

Opposition to the University of Hawai’i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai’i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

Opposition to the University of Hawai’i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.

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Additional comments: On the Day Before My Hawaiian Mother Died, 4-20-16, She Asked of Me “ Momi NEVER STOP SAVING OUR MAUNA KEEP GOING !” She Suffered as Being Hawaiian- The Prejudices Never Stopped as Her Mother was Called “ BLACK MARY OF PUNALUU ☥» The WAR of Pearl Harbour as She Rode her Roller Skates up Punchbowl where they Also had another Home She Told Me She Waved at an Airplane As It Flew Over Her on His Way To BOMB PEARL HARBOR ☥» STOP THIS CONTINUED DESTRUCTION OF OUR LANDS WHICH FEED US ALL WATER NECESSARY TO SURVIVE !OUR AHUPUA’A Was ILEGALLY STOLEN then SOLD FROM MY GRANDMOTHER MARY JUST 8 YRS OLD PLEASE STOP KILLING THE MERE 20,000 Of US HAWAIIAN NA KANAKA LEFT FROM OVER 600,000 When COOK BROUGHT DISEASES THAT KELLED US…. COLONIALISM DID THE REST OF THE GENOCIDE CONTINUED UNTIL NOW … STOP THIS ILLEGAL STEAL OF OUR RECOGNIZED KINGDOM BY 60 COUNTRIES FROM 1800.
**Name:** Sofia Franco  
**City, State:** Lisbon, Portugal

**Date submitted:** 10/13/2021

**I am:** Foreigner

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**Additional comments:** As someone who is a scientist and at the same time a student of Hawaiian culture, I am appalled at how UH is managing this. The expected benefits from the TMT or the investment it brings would never be enough to make it worth erasing and further damaging such a sacred place. Furthermore, the world has its eyes on UH and Mauna Kea. Not listening to kanaka maoli and disrespecting the wishes of the native people of Hawai‘i is sending a message that they are not important, and eventually other sites and other natives are not important as well, when set against money. Please revise the plan, and do not allow the TMT to be built on the Mauna.
Date submitted: 10/13/2021  
Name: Cynthia Chun  
I am: non-Native Hawaiian  
City, State: ʻEwa Beach, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
**Date submitted:** 10/13/2021  
**Name:** Leslie Ko  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Berkeley, CA

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**Additional comments:**
Date submitted: 10/13/2021  
Name: Carla Compagnoni  
I am: non-Native Hawaiian  
City, State: Mississauga, Canada

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Additional comments: Sacred lands should never be desecrated in the name of science, or any reason for that matter.
**Date submitted:** 10/13/2021  
**Name:** Maringi James  
**I am:** non-Native Hawaiian  
**City, State:** Rotorua, New Zealand

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**Additional comments:**
**Date submitted:** 10/13/2021  
**Name:** Nohea Kaolulo  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:** Do not build the telescope on Mauna Kea. Listen to the people. Respect our people. Do not desecrate our sacred lands. Do not pollute our resources. No means no.
**Date submitted:** 10/13/2021  
**Name:** Sam King  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:** The TMT is one of the greatest projects to ever come to Hawaii. It will diversify our economy and bring jobs and scholarships for our keiki. It will set up Hawaii as the premier astronomy location for decades to come. Please push forward with the project. The protesters have made clear that they are not interested in talking. Please do what is best for the people of Hawaii and build TMT.
Date submitted: 10/13/2021  
Name: Vivian-Malia Faagata  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Away for School

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Additional comments: Bombing, more telescopes while homelessness is a problem. As a Kanaka Maoli, I am asking to not extend the lease after the expiration in 2033.
**Date submitted:** 10/13/2021  
**Name:** Vicky Robbins  
**I am:** non-Native Hawaiian  
**City, State:** Pāhoa, HI

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**Additional comments:**
**Date submitted:** 10/13/2021  
**Name:** Akahai Kiekieloa Keanaaina  
**I am:** National - Hawaii au  
**City, State:** Kailua Kona, HI

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**Additional comments:** Send proof of title to me - @ X. Alii Nui Moi Hawaii Norman Akahai Keanaaina… I will do my best to resolve this matter…
Date submitted: 10/13/2021  
Name: Fabian Kaulukukui-Heloca  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Waiʻanae, HI

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Additional comments: Shame on you for thinking that you know what should be done for us! We speak for ourselves. I am Hawaiian and I say NO to TMT!
**Date submitted:** 10/13/2021  
**Name:** Victoria Brown  
**I am:** non-Native Hawaiian  
**City, State:** San Diego, CA

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**Additional comments:** Do not build here.
Date submitted: 10/14/2021
Name: Frank Oliveira
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hana, HI

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Additional comments: The abuse n disrespect needs to end. PAU !!!
**Date submitted:** 10/14/2021  
**Name:** Kawehi Javar  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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**Additional comments:**
**Date submitted:** 10/14/2021  
**Name:** Debra Javar  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Captain Cook, HI

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**Additional comments:** Mauna Kea is our sacred, spiritual site that has many cultural and spiritual significance to us Native Hawaiian people. I STRONGLY OPPOSE the building of TMT on our sacred Mauna Kea. Do not further desecrate our mountain by building TMT or any other telescope on it. Mahalo.
Date submitted: 10/14/2021
Name: Graciela Tafoya
I am: non-Native Hawaiian
City, State: Santa Cruz, CA

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**Additional comments:**
Date submitted: 10/15/2021
Name: Noel Livingston
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/15/2021
Name: Francisco Javar
I am: no answer
City, State: Captain Cook, HI

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Additional comments: I OPPOSE building TMT on our Mauna Kea. It is a sacred religious, cultural site. Thank you.
Date submitted: 10/16/2021
Name: Momi Sales
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: ʻEwa Beach, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: No to building anything on the mauna. Our Aliʻi Nui would not have built it unless it benefited its native people. They’ve known what was needed to be known way before todays modern technologies.
**Date submitted:** 10/17/2021  
**Name:** Melody Hazel  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI  

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**Additional comments:** I oppose the master plan.
Date submitted: 10/17/2021
Name: Elizabeth Altum
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Irving, TX

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Additional comments: I do not consent to the building of the thirty meter telescope on Mauna Kea.
Date submitted: 10/17/2021  
Name: Malia Marquez  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Maunalua, O‘ahu, HI

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Additional comments: The people have spoken but our voices have fallen upon deaf ears. Enough is enough. UH has mismanaged our mauna from the 60s. NOW that we are more aware, we can oppose such a monstrosity such as TMT. Sometimes it’s not about $$$. It’s about doing the right thing. It’s time to mālama our mauna.
Date submitted: 10/18/2021
Name: Cindy Freitas
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua Kona, HI

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Additional comments: This should have be in the planning...... HRS §711-1107 Desecration. (1) A person commits the offense of desecration if the person intentionally desecrates: (a) Any public monument or structure; (b) A place of worship or burial; or (c) In a public place the national flag or any other object of veneration by a substantial segment of the public. (2) "Desecrate" means defacing, damaging, polluting, or otherwise physically mistreating in a way that the defendant knows will outrage the sensibilities of persons likely to observe or discover the defendant’s action. (3) Any person convicted of committing the offense of desecration shall be sentenced to a term of imprisonment of not more than one year, a fine of not more than $10,000, or both. [L 1972, c 9, pt of §1; gen ch 1993; am L 2002, c 198, §1]
**Date submitted:** 10/19/2021  
**Name:** Keala Fung  
**I am:** no answer  
**City, State:** Honolulu, HI

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**Date submitted:** 10/19/2021  
**Name:** Steven Thomas  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Mililani, HI

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**Additional comments:** HEWA LOA kēia mea!
Date submitted: 10/20/2021
Name: Julie Javar
I am: non-Native Hawaiian
City, State: Kea‘au, HI

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Additional comments:
Date submitted: 10/20/2021
Name: Kapono Pono
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Na’alehu, HI

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Additional comments: A’ole TMT nuff pau already you have a lot stop being greedy
Date submitted: 10/20/2021  
Name: Pono Javar  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Ka`u, HI

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Additional comments: E`A!
**Date submitted:** 10/20/2021  
**Name:** Shaun Coleman  
**I am:** Born & raised native to the aina  
**City, State:** ,

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**Additional comments:** Also don't for the u.s illegal occupation we aren't Lolo a joint resolution is not a treaty of annexation so stop feeding everyone lies, lies, lies what's wrong with you idiots do the right thing leave the aina's alone already better yet go home and build on top your guys land.
**Date submitted:** 10/20/2021  
**Name:** Francisco Javar  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kea‘au, HI

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**Additional comments:**

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Page 1052
**Date submitted:** 10/21/2021  
**Name:** Mark Martin  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

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**Additional comments:** Aʻole TMT
**Date submitted:** 10/22/2021  
**Name:** Dana Keawe  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Mt. View, HI

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**Additional comments:** Decommission, remove telescopes & All structures and let Mauna Kea rest and heal for the next 20 years
**Date submitted:** 10/24/2021  
**Name:** Marissa Ornellas  
**I am:** non-Native Hawaiian  
**City, State:** Kapa'a, HI

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**Additional comments:**
Date submitted: 10/24/2021
Name: Stanley Ornellas
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kapa‘a, HI

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Additional comments: A‘ole, TMT
Date submitted: 10/24/2021  
Name: Carolyn Ornellas  
I am: non-Native Hawaiian  
City, State: Kapa‘a, HI

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments: A‘ole, TMT
**Date submitted:** 10/25/2021  
**Name:** Hanalei Vierra  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** San Diego, CA

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:** A'ole, TMT!!!
Date submitted: 10/26/2021
Name: Abigail Rose
I am: non-Native Hawaiian
City, State: Kapolei, HI

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Additional comments: The University of Hawai‘i should divest from Mauna Kea.
**Date submitted:** 10/26/2021  
**Name:** Roslynn Cummings  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kalāheo, Hawai‘i Nei

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**Additional comments:** Manawa from the past in the present for the future I stand for Mauna a Wakea I stand with Wakea and a giant further desecration! E Ku Kou Makou Makemake No Ka Āina “True desire to stand for āina” because he āina Hawaii I am of HāWai‘I Aloha No Manawaiakea
Date submitted: 10/26/2021
Name: Keatan Kamakaiwi
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hilo, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
Date submitted: 10/26/2021
Name: Keawe Kalama
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/26/2021
Name: Cheyenne Adams
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Philippa Bell
I am: non-Native Hawaiian
City, State: Kailua, O‘ahu,

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Nathan Yuen  
**I am:** no answer  
**City, State:** Honolulu, HI

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**Additional comments:** The University of Hawaii has seriously mismanaged Mauna Kea for decades. The University has an inherent conflict of interest and has violated the conservation district by developing an industrial zone of telescopes at the summit. The University of Hawaii has no business managing the delicate ecosystem at the summit of Mauna Kea.
Date submitted: 10/26/2021
Name: Carrie Ann Shirota
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments: Aloha, I am an attorney and 4th generation resident in Hawai'i, with my family immigrating from Okinawa, Madeira and the Azores. I am concerned about the current process limiting discourse and community engagement relating lease extensions on Mauna Kea amidst the COVID-19 pandemic. This contravenes acting in good faith, and casts suspension over the entire process. Beyond process, there is absolute disregard of the rights of Kanaka Maoli under state, federal and international law. Would you build the TMT on top of the Sistine Chapel, the Punchbowl Or Arlington Cemetry, a temple, mosque or synagogue? We are simply asking for equality and equity, an respecting that Mauna Kea is a sacred place. As the adage goes, "actions speaks louder than words. If you want to be regarded as an Indigenous place of learning, then start by respecting this sacred site, and stop all plans for the TMT. Anything less is not conciliation, but an act of War against Kanaka Maoli."
**Date submitted:** 10/26/2021  
**Name:** Tiare HewLen  
**I am:** non-Native Hawaiian  
**City, State:** Kealakekua, HI

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**Additional comments:** Why is there continual misrepresentation of local support for the building of the TMT? There is not much support and our local community continue to be vocal because we have seen how this mauna and area around Mauna Kea is mismanaged. UH system does not appear to service our community but rather to have its own agenda of profiting foreign entities over the decades of mismanagement many local groups have pointed out!
Date submitted: 10/26/2021
Name: Shaeralee-Tiare Manosa
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Molokaʻi,

Opposition to the University of Hawaiʻi (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawaiʻi and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/26/2021  
Name: Shannon Oberle  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Punalu, HI

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Additional comments: The crux of the matter is UH has neither consent nor jurisdiction to build atop Maunakea, which is designated conservation land. Maunakea is a large aquifer of life-sustaining water.
Date submitted: 10/26/2021
Name: Sage Nicholson
I am: 
City, State: Kapaʻau, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/26/2021
Name: Paolo Rista
I am: non-Native Hawaiian
City, State: Haleiwa, HI

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Additional comments: Eventually there will be no sacred land left. Time to stop this desecration. Time to save the little that is left. For science there are good alternatives else where. Few or no extra jobs will be created for locals and Hawaiians.
Date submitted: 10/26/2021  
Name: Christopher Mackillop  
I am: no answer  
City, State: Kapa‘au, HI

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Additional comments: Please stop all future development on the Mauna. UH is a horrible steward of this unique sacred ecosystem.
Date submitted: 10/26/2021
Name: Christopher Mackillop
I am: non-Native Hawaiian
City, State: Kapaʻau, HI

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Date submitted: 10/26/2021
Name: Duane Medeiros
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua Kona, HI

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Additional comments: All foreign entities Who have been ileagally occupying Mauna Kea have no intention to conserve Mauna Kea as respectable stewards of the Ahupua'a. As my Aunt Hannah Kane would always say In years past, the Land is the Kanaka Peoples from the Mountain top all the way down to the Sea. No Consent, and No TMT On Maunakea!!!
**Date submitted:** 10/26/2021  
**Name:** Kalei Fragas  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Puna, HI

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**Additional comments:**
Date submitted: 10/26/2021  
Name: Karima Daoudi  
I am: non-Native Hawaiian  
City, State: Oʻahu, HI

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Additional comments: Native Hawaiians have had their land, culture and livelihoods threatened for many decades from colonialism and militarism. It's time to listen to and respect the wishes of the indigenous people of Hawaii.
Date submitted: 10/26/2021
Name: Gabriel Sebastian Correa
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Pāhoa,

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: IT IS IMPORTANT TO PROTECT HAWAIIAN LIFE AND CULTURE. MAUNA KEA IS A SACRED PLACE OF THE HAWAIIAN PEOPLE AND MYSELF. I WILL NEVER CONSENT TO THE TMT.
Date submitted: 10/26/2021
Name: Konaneakamahina de la Nux
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waiʻehu, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Kristie Leiato
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaneohe, HI

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Additional comments: As a student at UH @ Mānoa, I’m appalled that funds are being funneled into this project. UH claims to be a Hawaiian place of learning but is silencing the voices of the people they claim to represent. The obvious discontent of natives and others from around the world show that the institution does not support kanaka maoli. I strongly believe that the removal of TMT is directly tied to the survival of Hawai’i in the wake of climate change. Although the construction of the telescopes are said to be helping science and technology, it’s not what we need today. We need the money and resources being funneled into this project to go towards revitalizing the ʻāina of the land. The answers to our current climate crisis won’t be in space. For decades kanaka maoli have been making their voices heard in opposition, it’s time that you all listen. The proven ecological damage that comes from construction is not worth whatever it is we are looking for in the sky. The funds need to be invested in our environment, the ocean and the ʻāina. Protect the pu‘uhulhulu, the ‘ōhia trees, the coral, the fish, the streams, and all other aspects of our earth that we stand to lose in coming years. This is not how we diversify the economy. That can only be done when capitalism is no longer serving the supremacist agenda, and this project perpetuates the values of that agenda. If UH really wants to diversify the economy, they’d find alternatives opportunities for environmental remediation guided by kanaka maoli knowledge. We know this land and what’s needed for it to thrive, and to ensure our survival you need to listen to us. This project needs to be stopped and funding discontinued immediately.
Date submitted: 10/26/2021  
Name: Faith Rogers  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Honolulu, HI  

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Additional comments:
**Date submitted**: 10/26/2021  
**Name**: SangHee Cha  
**I am**: Earth resident  
**City, State**: Placenta, CA

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Nahea Lopez  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

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**Additional comments:**
Date submitted: 10/26/2021  
Name: Celine Daclison  
I am: non-Native Hawaiian  
City, State: ʻEwa Beach, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Elaine Wyatt
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Date submitted: 10/26/2021
Name: Victor Kanashiro
I am: non-Native Hawaiian
City, State: Belleville, NJ

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Additional comments:
Date submitted: 10/26/2021
Name: Morgan Sharman
I am: non-Native Hawaiian
City, State: Kihei, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea.

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Additional comments:
Date submitted: 10/26/2021
Name: Anfisa Kuzmina
I am: non-Native Hawaiian
City, State: Hanalei, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:|  
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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Mattison Priest  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Mizuki Onitake  
**I am:** non-Native Hawaiian  
**City, State:** Tokyo, Japan

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Olena Kelii  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Maile Coberly  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:  
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**Additional comments:**
Date submitted: 10/26/2021
Name: Cian Ying
I am: non-Native Hawaiian
City, State: Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments:
**Date submitted:** 10/26/2021

**Name:** Tinamarie Cura

**I am:** Kanaka Maoli (aka Native Hawaiian)

**City, State:** ‘Ewa Beach, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Makena Gallagher
I am: non-Native Hawaiian
City, State: Haleiwa, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Ava McHugh  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:**
**Date submitted:** 10/26/2021

**Name:** Claud Sutcliffe

**I am:** non-Native Hawaiian Cherokee

**City, State:** Waimea, HI

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**Additional comments:** UH has failed as Stewart of Mauna Kea!
**Date submitted:** 10/26/2021  
**Name:** Kalei Raher  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Cheyenne Langamin
I am: non-Native Hawaiian
Native American (Navajo)
City, State: Haleiwa, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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**Date submitted:** 10/26/2021  
**Name:** Kayla Acoba  
**I am:** non-Native Hawaiian  
**City, State:** Hilo, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Austin Chang
I am: Local Hawaiian with ancestors from the plantation era in all 4 counties.
City, State: Hilo, HI

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Additional comments: I don't think anyone will actually read this, and that these comments are just a front to appear like you care. If you really wanted our opinions you wouldn't be afraid to open up your YouTube comments. I believe there's a solution you're not seeing, but it seems like you aren't willing to consider anyone else’s view seriously. Good luck and I hope you learn something from this.
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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Sarah Hoyle  
**I am:**  
**City, State:** Berkeley, CA

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
Date submitted: 10/26/2021
Name: Kanani DeVicent-Rodriguez
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wahiawā, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.

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Additional comments:
Date submitted: 10/26/2021  
Name: Misty Silva  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Mililani, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: | X |
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Additional comments: 
**Date submitted:** 10/26/2021  
**Name:** Bailey Sry  
**I am:** non-Native Hawaiian  
**City, State:** Hana, HI

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**Additional comments:**
**Date submitted:** 10/26/2021
**Name:** Ernest Cabatingan
**I am:** Kanaka Maoli (aka Native Hawaiian)
**City, State:** Wailuku, HI

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**Additional comments:**
Date submitted: 10/26/2021  
Name: Rikt Akanmī  
I am: non-Native Hawaiian and Loochooan aka Native Okinawan  
City, State: Hilo, HI

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Additional comments: Kū Kiaʻi Mauna!
Date submitted: 10/26/2021
Name: Matthew Kaho‘ohanohano
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaaawa, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Manato Fukuda  
**I am:** non-Native Hawaiian  
**City, State:** , Japan

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Daniella Hidalgo  
**I am:** non-Native Hawaiian  
**City, State:** Wahiawā, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Kaleiheana Stormcrow
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kapu’euhi, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Sherry Schafer
I am: no answer
City, State: Los Angeles, CA

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Leslie Young  
**I am:** non-Native Hawaiian  
**City, State:** X, Hilo, HI

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**Additional comments:** The native Hawaiian people have been very clear on the matter of the Mauna. It is not worth the money to hurt the Hawaiian community.
Date submitted: 10/26/2021
Name: Christian Agsalog
I am: non-Native Hawaiian
City, State: Haiku, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Date submitted: 10/26/2021  
Name: Jodee Inouye-Agsalog  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Haiku, HI

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Date submitted: 10/26/2021
Name: Kye Harford
I am: non-Native Hawaiian
City, State: Hilo, HI

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Date submitted: 10/26/2021  
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I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Seattle, WA

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Date submitted: 10/26/2021
Name: Alela Orris
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wahiawā, HI

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Date submitted: 10/26/2021
Name: Davis Lau
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Meleanaonālani Asams  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hāwī, HI

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**Additional comments:**
Date submitted: 10/26/2021  
Name: Pili Serrao  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Honolulu, 

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Additional comments:
Date submitted:  10/26/2021  
Name:  Chantelle Dikilato-Rogers  
I am:  Kanaka Maoli (aka Native Hawaiian)  
City, State:  Kaneohe, HI

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Additional comments:  Please Listen and do what’s right!! Mauna Kea is a Special place. We do not want the telescope and never will. We are not against Science. We are against the location. Mahalo
**Date submitted:** 10/26/2021  
**Name:** Koutaro Yuuji  
**I am:** Native Okinawan  
**City, State:** Hilo,

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:  
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**Additional comments:** let's be respectful as haole to kanaka maoli!
**Date submitted:** 10/26/2021  
**Name:** Prestyn Timas  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |  
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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Keolakawai Spencer  
**I am:** Native Hawaiian and Uchinaanchu aka Native Okinawan  
**City, State:** Nagoya, Japan

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**Additional comments:**
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Name: Emily Pahinui's  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Waialua, HI

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Additional comments:
Date submitted: 10/26/2021
Name: KJ Alexander
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Bonney Lake, WA

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Additional comments: As someone who has been forced from their land, had their family burial grounds desecrated for a visitors center, and feel the loss of my culture deep within my bones, I ask you to stop choosing violence kanaka maoli. Stop harming us with every decision made for our land. For once, listen to us and to our pain have some decency and integrity.
**Date submitted:** 10/26/2021  
**Name:** Cliff Watson  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kapolei, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
Date submitted: 10/26/2021
Name: Keegan Kamaunu
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Centralia, WA

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Additional comments: Going to college in WA state, I hear and watch what is happening to the Hawaiian islands. It’s saddens me that they ant yo build more telescopes on that beautiful mountain. I say no to tmt. Aloha.
**Date submitted:** 10/26/2021  
**Name:** Olivia Nguyen  
**I am:** non-Native Hawaiian  
**City, State:** Haiku, HI

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**Additional comments:** After residing on Maui for eight years and being lucky enough to behold the beauty that is the Hawaiian Islands, I have come to understand that the care of the land and waters are best decided by Native Hawaiians and Hawaiian Nationals, not U.S. settlers who have consistently exploited finite resources for profit to the detriment of community wellness. Decades of mismanagement of Mauna Kea must be addressed before more construction is even considered. It makes no sense to me to build more without the consent of the Kingdom without at least carrying down the decommissioned telescopes. Even the Canary Islands are finding TMT to be a bad deal for their community. I also recognize that TMT and UH are not above racist nor genocidal narratives to further their means in their public relations. TMT and UH must be held accountable for purporting that this is a matter of science and technology versus "superstition" or "religion." This reduction is used to depict Natives as barbarians rather than countrymen who achieved a literacy rate in the 90 percentile in the latter half of the 1800s. This part of history is being made more and more visible these days. Beware to all who dehumanize for their means...
Date submitted: 10/26/2021
Name: Sean Kamaunu
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaneohe, HI

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Additional comments: I oppose tmt.
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**Name:** Kyle Kamaunu  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaneohe, HI

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**Additional comments:** No to tmt.
Date submitted: 10/26/2021
Name: Randi Kamaunu
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaneohe, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments: No tmt on Maunakea please.
**Date submitted:** 10/26/2021  
**Name:** Mary Kok  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kea‘au, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Mahina CHILLINGWORTH
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wahiawā, HI

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Additional comments: Build it somewhere else!
Date submitted: 10/26/2021
Name: ʻAinoa Shaw
I am: no answer
City, State: Wailuku, HI

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Date submitted: 10/26/2021
Name: Kayla Shaw
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wailuku, HI

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Joanna Leialoha  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** X King Avenue,

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**Additional comments:** Stop building on the Mauna
Date submitted: 10/26/2021
Name: Pat Lind
I am: non-Native Hawaiian
City, State: Shasta Lake City,

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Additional comments: Sacred sites of such caliber As the Mauna Kea need to be respected and not just no more elescope built but current ones dismantled and removed.
Date submitted: 10/26/2021
Name: Sam Ikehara
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Name: Kahiau Wallace
I am: Native Hawaiian and Irish, Tongan
City, State: Kahana, O’ahu,

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Additional comments:
Date submitted: 10/26/2021
Name: Arthur Kalā
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: X ala Moana Blvd,

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Additional comments: A’OLE TMT
Date submitted: 10/26/2021
Name: Mason Calimlim
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kahuku, HI

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Additional comments: A'ole TMT
### Date submitted: 10/26/2021

#### Name: Tommy Copeland

#### I am: 

#### City, State: Christchurch, New Zealand

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**Additional comments:**

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Page 1148
Date submitted: 10/26/2021
Name: Guy Chenoweth
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Anchorage, AK

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Additional comments: I understand the scientific impact TMT would give, but it does not outweigh the damage it would do to the environment.
Date submitted: 10/26/2021  
Name: Karenga Meredith  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Arlington, VA

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Additional comments:
Date submitted: 10/26/2021
Name: Jordan Nishina
I am: non-Native Hawaiian
City, State: Kaneohe, HI

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Marge Akana  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** ʻEwa, HI

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Renee Hoomanawanui  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Pāhoa, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Anthony Calimlim
I am: non-Native Hawaiian
City, State: Kahuku, Oʻahu, HI

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Additional comments: I oppose TMT
Date submitted: 10/26/2021
Name: Keoni Wailani
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu,

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/26/2021
Name: Laurie Akana
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu,

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Ramsey Calimlim  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kahuku, HI

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**Additional comments:** I OPPOSE TMT being built on MaunaKea
**Date submitted:** 10/26/2021  
**Name:** Kaiulani Lambert  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaneohe, HI

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Kelly Kwak  
**I am:** Korean  
**City, State:** Honolulu, HI

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Tara Coyote  
**I am:** non-Native Hawaiian  
**City, State:** Kapa’a, HI

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**Additional comments:**
Date submitted: 10/26/2021  
Name: Pua Pinto  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Kailua, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Lori Walker
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kahaluu, O‘ahu, HI

**Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:**
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**Additional comments:** You know all the reasons to reject this master plan and discontinue UH’s leasing and management of this sacred place. Mine won’t be new to you. The onus is yours to justify how UH has earned a renewed lease. It is a privilege to manage this mauna. Prove to us why UH should continue to hold it.
Date submitted: 10/26/2021
Name: Avalon Keene
I am: no answer
City, State: Benicia, CA

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Additional comments:
Date submitted: 10/26/2021
Name: Kalei Sine
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments: My aunty told me that when she was in college they were fighting the construction of a different telescope at the time. Does it seem right that I 20 something years later have to fight against the construction of yet another telescope?? When will it stop? Have you not taken enough land and resources already?? PLEASE PLEASE DO NOT DO THIS. A‘OLE!!!!!!
**Date submitted:** 10/26/2021  
**Name:** Lisa Branco  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Buckley, WA

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**Additional comments:** No TMT!!
Date submitted: 10/26/2021
Name: Annelise Houston
I am: non-Native Hawaiian
City, State: Hilo, HI

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Additional comments: The Hawaiians have spoken, enough telescopes on their sacred mountain. Move on to helping our community not astronomers again.
Date submitted: 10/26/2021
Name: Elizabeth Lovejoy-Yundt
I am: non-Native Hawaiian
City, State: Pāhoa, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Date submitted: 10/26/2021  
Name: Alika Seki  
I am: non-Native Hawaiian  
City, State: Kahului, HI

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Additional comments: 

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Date submitted: 10/26/2021  
Name: Laura Ramirez  
I am: non-Native Hawaiian  
City, State: Kapa’a, Kaua‘i, HI

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Additional comments: I do Not Consent to TMT. UH has No Jurisdiction over and No Exclusivity over the access road to Mauna Kea. No More Thievery and Extended leases of Hawaiian lands!
**Date submitted:** 10/26/2021  
**Name:** Kahealani Keahi  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI  

| Opposition to the University of Hawai’i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai’i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X  
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**Additional comments:**
Date submitted: 10/26/2021  
Name: Tehani Gionson  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Waikaloa, HI

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**Additional comments:**
**Date submitted:** 10/26/2021

**Name:** Robert Willing

**I am:** Kanaka Maoli (aka Native Hawaiian)

**City, State:** Hauula, HI

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**Additional comments:** I do not consent to the building of the TMT. I am completely against any more desecration of Maunaawakea.
Date submitted: 10/26/2021
Name: Roy Hoffman
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Bedford, TX

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Reanna Serikawa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaneohe, HI

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**Date submitted:** 10/26/2021  
**Name:** Gina Ciallella  
**I am:** Friend to the Hawaiian people  
**City, State:** Swedesboro, NJ

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Date submitted: 10/26/2021
Name: Jonah Cummings
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Aiea, O‘ahu, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Taylor Warner
I am: non-Native Hawaiian
City, State: Salt Lake City, UT

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Additional comments:
Date submitted: 10/26/2021
Name: Kaydee Park
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waimanalo, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
Date submitted: 10/26/2021
Name: Hope Benziger
I am: White
City, State: O‘ahu, HI

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Additional comments: Please listen.
Date submitted: 10/26/2021
Name: Tiana Mahina Grace Flores
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Mo‘ili‘ili, Honolulu, O‘ahu, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.
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- The indigenous people of Hawai‘i have an internationally recognized human right to self-determination and have over the past 12 years have clearly exercised that right and said NO to the building of TMT on Mauna Kea which is 100% stolen Hawaiian lands.
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Additional comments: As an institute that claims to be a “Native Hawaiian Place of Learning”, I urge UH to hold true to that promise by listening to Native Hawaiians. This Hawaiian joins with the countless others who say a‘ole! We do not consent to the construction of the Thirty Meter Telescope upon Mauna a Wākea. Mahalo.
Date submitted: 10/26/2021
Name: Dextet Burns
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Haiku, Maui, HI

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**Date submitted:** 10/26/2021  
**Name:** Jenny Lynn  
**I am:** non-Native Hawaiian  
**City, State:** Waiohuli,

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Matthew Kwock  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI  

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**Additional comments:** I stand with kanaka maoli! Non Hawaiians for Hawaiians!
Date submitted: 10/26/2021
Name: Emily Lo
I am: non-Native Hawaiian
City, State: Oakland, CA

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Additional comments:
Date submitted: 10/26/2021
Name: Savannah Mattos
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Chandler, AZ

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Additional comments: Naive Hawaiians all say no. What part of no don’t you understand? You guys just found a planet in a galaxy far away, so what now? This discovery, and any other future celestial discoveries, does nothing for the current problems on this planet like the pandemic, world wide shortages, Kanaka Maoli suffering from drug and alcohol abuse and Kanaka who cannot even afford to live in their own homeland because their land keeps being turned over to the highest bidder. So, A\OLE TMT and UH, A\OLE!
**Date submitted:** 10/26/2021  
**Name:** Yuko Unger  
**I am:** non-Native Hawaiian  
**City, State:** Chestnut Hill, MA

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**Additional comments:**
Date submitted: 10/26/2021
Name: Philip Morales
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waiʻanae, Kingdom of Hawaiʻi

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Naive Hawaiians al say no. What part don’t you understand. You guys just found a planet in a galaxy far away, so what now? This discovery does nothing for the current problems on this planet like the pandemic, world wide shortages, Kanaka Maoli suffering from drug and alcohol abuse and Kanaka who cannot even afford to live in their own homeland because their land keeps being turned over to the highest bidder. So, AʻOLE TMT and UH, AʻOLE!
Date submitted: 10/26/2021
Name: Koa Young
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kōloa, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments: Stop destroying and ignoring traditional Hawaiian culture
Date submitted: 10/26/2021  
Name: D. Guitang  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Pearl City, HI

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Additional comments:
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I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Concord,

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Additional comments: No more desecration on God’s Mauna, is this word “No” hard to understand or hard to swallow in your na‘au. Enough is enough of all your lies, your greed and to think all of you are up to challenge the rightful owner of the Mauna and who is the rightful Owner? My God and yours, did you think that all of you people are above our Creator? All of you who think ‘money’ can buy His Creations, do what is right and Pono, Mr. your time is almost up, need to give this World back to God, the rightful owner of the Universe
Date submitted: 10/26/2021
Name: Ben Blakemore
I am: non-Native Hawaiian
City, State: Volcano, HI

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Additional comments: More should also be done to lessen the visual footprint of the telescopes on the mountain even if it means using a paint or covering on the existing observatories that match the color of the mountain. They look very ugly and negatively impact the natural beauty of the mauna.
Date submitted: 10/26/2021  
Name: Kinohi Neves  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Hilo, HI

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Additional comments: No need TMT. As a current graduate student of UH Mānoa, I implore you to give authority of Mauna Kea back to the people with genealogical authority of Hawai‘i lands. Mahalo.
Date submitted: 10/26/2021
Name: Sabrina Wong
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/26/2021
Name: Caitie Kohl
I am: non-Native Hawaiian
City, State: Island Heights, NJ

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Nana-Honua Manuel  
**I am:** Native Hawaiian and non-Native Hawaiian

**City, State:** Volcano, HI

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**Additional comments:** The CMP should address the remaining 12 years on the existing lease. It should address the conditions required by the existing lease. You need to clean up and restore the mountain. The lease is over, it will not be renewed. The TMT we will not be built on Mauna Kea ever. No title, no treaty, no consent. It is the right of the right holders, not the stakeholders, to decide. The right holders are the descendants of the original inhabitants of these stolen & prostituted lands. Be satisfied with the 65 years at $1/year. It is pau.
Date submitted: 10/26/2021
Name: Winona Lee
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
**Date submitted**: 10/26/2021  
**Name**: Lia Foster  
**I am**: non-Native Hawaiian  
**City, State**: Honolulu, HI

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**Additional comments**: please do the right thing.
**Date submitted:** 10/26/2021  
**Name:** Kathryn Benjamin  
**I am:** non-Native Hawaiian  
**City, State:** Hilo, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Claire Dresser
I am: non-Native Hawaiian
City, State: santa cruz, berkeley, sfc, CA

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Additional comments:  THANK YOU FOR YOUR WORK. WE WILL KEEP THE FAITH! <3
**Date submitted**: 10/26/2021  
**Name**: Sky Ty  
**I am**: non-Native Hawaiian  
**City, State**: American Canyon, CA

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**Additional comments:**
Date submitted: 10/26/2021
Name: Kalanamana-o Awong
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waiʻanae, HI

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**Date submitted:** 10/26/2021  
**Name:** Emmy Boe  
**I am:** non-Native Hawaiian  
**City, State:** Santa Cruz, CA

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Date submitted: 10/26/2021
Name: Risa Yamamoto
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/26/2021  
Name: Thomas Lum  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Wailuku, HI

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**Name:** Beth Leeds  
**I am:** non-Native Hawaiian  
**City, State:** Laguna Beach, CA

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**Additional comments:** There is no reason now for any more development on Mauna Kea\'s peak.
**Date submitted:** 10/26/2021  
**Name:** Mona Kea  
**I am:** non-Native Hawaiian  
**City, State:** Wailuku, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Date submitted: 10/26/2021
Name: Ayesha Liquorish
I am: non-Native Hawaiian
City, State: Haleiwa,

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Carlotta Kailiawa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Mammoth Lakes, CA

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**Additional comments:**
Date submitted: 10/26/2021
Name: Zach Street
I am: non-Native Hawaiian
City, State: Coupeville, WA

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Genesis Makaneole-Bragg  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaneohe, HI

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Additional comments: While I believe that astronomy is an important part of scientific development, I do not believe that the further desecration of the culturally and genealogically significant sites on Mauna Kea is acceptable. The Draft Master Plan statement by the University of Hawai‘i respects the capacity both the cultural and environmental significance of Mauna Kea a fallacy. Using ‘Ōlelo Hawai‘i in this Master Plan seemed like a tactic of mockery and was in fact used in opposition to what Kanaka Maoli continually fight and protect for. To name the document “E ‘O I Ka Leo” seems very ironic as it translates to “listen to the voice”. This is very much inconsiderate to Kanaka Maoli as our voices are not being heard, in fact they rewrite history and weaponize our mother tongue against us. Despite the worldwide disapproval of TMT, there are still plans to further develop this plan. Kanaka Maoli do not consent to further desecration on Mauna Kea. As a displaced kanaka of O‘ahu, I defer to the leaders of Kānaka Maoli who have vehemently opposed TMT. Mauna a Wākea is a progenitor ancestor of Kānaka Maoli and therefore I believe that Kānaka Maoli should hold the most sway in decision-making. I strongly urge the University of Hawai‘i to take a similar approach that is rooted in transparency with the community. I am greatly appreciative of the opportunity to have input on this master plan and hope that the University of Hawai‘i will proactively seek to engage and empower Kānaka Maoli on local developments beyond the thirty meter telescope.
Date submitted: 10/26/2021
Name: Lahela Mattos
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Pearl City, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments: The University would not feel safe to me if they allowed the further desecration of my kupuna. I oppose the construction of the TMT, and UH should not call themselves a Native Hawaiian Place of Learning if they contribute to te assault of ‘āina, and Native Hawaiian ancestors.
**Date submitted:** 10/26/2021  
**Name:** Jade Chihara  
**I am:** non-Native Hawaiian  
**City, State:** Lahaina,

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**Date submitted:** 10/26/2021  
**Name:** Sterling Cossy  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waiʻanae, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Kerstyn Afuso
I am: non-Native Hawaiian
City, State: Kapalama,

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Additional comments: By continuing with this project, you cement your position as one who does not care for the kānaka and locals who have generational connection to the ʻāina. Disrespecting the ʻāina means disrespecting the people. Shame on UH for saying they are for the people when their actions say just the opposite. It is disappoointing to see one of the biggest Universities in Hawai’i support constructions so obviously destructive and disrespectful of the history and culture here.
Date submitted: 10/26/2021
Name: Alberto Genovia
I am: Pacific Island
City, State: Līhuʻe, HI

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Additional comments: Stop this desecration
**Date submitted:** 10/26/2021  
**Name:** Nani Niheu  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wai`anae, HI

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**Additional comments:** The indigenous people of Hawai`i have exemplified the significance that Maunakea has. The disregard is one too many in regards to Culture, beliefs as well as our ancestors. I do not consent. I will never consent.
**Date submitted:** 10/26/2021  
**Name:** Justin Kay  
**I am:** non-Native Hawaiian  
**City, State:** ʻEwa Beach,

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**Additional comments:**
Date submitted: 10/26/2021
Name: Kim Nahale
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waiʻanae, HI

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Additional comments: E loa’a ‘ia ana ke koho pono i ʻoukou e lohe ʻoukou i ko ʻoukou mau naʻau a kou mau puʻuwai. I hope you come to the right and just choice by listening to all of your inner-guiding voices and your hearts.
Date submitted: 10/26/2021  
Name: Maile Wong  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Honolulu, HI  

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Marty Martins  
**I am:** non-Native Hawaiian  
**City, State:** Kīhei, HI  

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**Additional comments:** I am a white citizen of Hawai‘i. I have been an attorney for over 30 yrs. Mauna Kea is not sacred to me. I am opposed to the UH Master Plan and any further construction on the mauna as a matter of justice. If Hawai‘i’s native people consider the mauna sacred, the piko of their universe, who are you to tell them different and desecrate their holy place with an 18-story monstrosity? Have you followed all the astronomical discoveries made in the last three yrs from the telescopes already up there? Any discoveries a larger telescope MIGHT find is not worth demeaning our desecrating our native people's sacred place.
Date submitted: 10/26/2021
Name: Stephanie Tabbada
I am: Kanaka Maoli,
not NATIVE HAWAIIAN
City, State: Nāʻālehu,

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Additional comments: The Hawaiian Kingdom Nation NEVER RELINQUISHED OUR RIGHTS TO THESE LANDS, OUR NATURAL RESOURCES, OR GIVEN CONSENT TO DO SO. Show me your TREATY OF ANNEXATION FROM OUR QUEEN TO YOUR REPUBLIC OF HAWAII OVERthrowERS. It is written in the Organic Act and All Acts that the State of Hawaii is Perpetuating is the description of lands received and Ceded to the Federal United States is called "WHATSOEVERKIND!" There is NO Treaty describing this but only the NON CONSENTUAL MASSIVE KUʻE PETITION PRESENTED TO THE US CONGRESS. ANY AND ALL Derivative Titles after 1893, 1900, 1920, 1933, 1959, 1978 til present day is NULL AND VOID! Your inherited Military Occupation of 1893 until today has continued the violation of GENOCIDE. MY RESPONSE TO THIS AGENDA OF CONTINUALLY DESECRATING OUR MAUNA IS AʻOLE. CONSTRUCTIVE NOTICE IS HEREBY GIVEN TO THE UNIVERSITY OF HAWAIHAWAI, state of Hawaii, Individual Board Members and ALL CONCERNED TO CEASE ACTING LIKE YOU ARE ALL THE MASTERS IN CONTROL OF WE THE KANAKA AND OUR AINA THAT IS IN A "TRUST" AND NOT IN THE STATE OF HAWAII AS OWNERS! CONTINUE TO ACT AS OWNERS? SHOW ME YOUR CONVEYANCE FROM OUR KINGDOM NATION TO YOU!
**Date submitted:** 10/26/2021  
**Name:** Elana Jones  
**I am:** non-Native Hawaiian  
**City, State:** Ocean View, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: John Omerod
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments: Enough is enough stop the desecration
### Date submitted: 10/26/2021

**Name:** MaryAnn Omerod  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/26/2021
Name: Liko Asing
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: La‘iopua,

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Additional comments: Leave our sacred and beloved Mauna alone!!!
Date submitted: 10/26/2021
Name: Kalena Blakemore
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Volcano, HI

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Additional comments:
Date submitted: 10/26/2021  
Name: Kupono Ana  
I am: Native Hawaiian, Sovereign Hawaiian national  
City, State: Hilo, HI

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Additional comments: Why did the UH Regents only preserve the adze quarry under the preservation act of 106 and not Mauna Kea? You guys have been neglecting your obligations to protect the mauna for too long. Do what’s right for the Hawaiian people. Mahalo
Date submitted: 10/26/2021
Name: Amanda Hogue
I am: non-Native Hawaiian
City, State: Lynden, WA

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Additional comments:
Date submitted: 10/26/2021
Name: Euliana Hudson
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Waimanalo, HI

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**Additional comments:** The State and its agents, departments, and divisions such as the University of Hawai‘i system have for years exploited Ceded Lands and DHHL lands for economic benefit with no regard to the moral and fiduciary responsibility to the original indigenous inhabitants of the islands. The kanaka maoli have been decimated by disease, oppressed, subjugated, and marginalized over the past 200 years. No one can undo past wrongs, but when government power continues to be abused at the expense of the kanaka maoli, then there is a point when people need to say Lawa / Enough. The UH master plan for Mauna Kea ignores the unique historical and cultural place that Mauna Kea holds to its people. Based on previous actions of fiduciary indifference to those who deserve to benefit from this land, ie the kanaka maoli, there is no reasonable expectation to be had that any positive gain will ever come of this so-called master plan - either culturally or financially. Too many times the government has made its promises and the reneged on those same promises. It is too late - Fool us once, shame on you. Fool us a thousand times, well then you are just corrupt and cannot be trusted AT ALL. That land is conservation land and needs to remain as such. As Kahookahi Kanuha said, the kanaka maoli should not have to prove every inch has value and the culture of the kanaka maoli should not be dismissed because it is contemporary and not more than 200 years old. Hawaiian culture still exists whether you want to acknowledge that or not. Being dismissive of another's culture is absolutely *disgusting* coming from an institution of higher learning sitting on the very same islands.
Date submitted: 10/26/2021  
Name: Janeile Carter  
I am: non-Native Hawaiian  
City, State: Pearl City, HI

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Luis Zuniga  
**City, State:** Benicia, CA  

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**Name:** Sharron Gonzalez  
**I am:** non-Native Hawaiian  
**City, State:** Hilo, HI

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**Additional comments:** Eight Criteria to build the Telescope. All Must Be Met for the permit to be approved for construction... Among other issues, such as spirituality and sacredness of the mountain, petitioners have been stressing through their witnesses that the project does not meet Hawai’i Administrative Rules section 13-5. In it, there are eight criteria the Department of Land and Natural Resources must evaluate before allowing construction on a conservation district, such as Mauna Kea. Those eight criteria include: The proposed land use is consistent with the purpose of land conservation district; The proposed land use is consistent with the objectives of the subzone of the land on which the use will occur; The proposed land use complies with provisions and guidelines contained in Chapter 205A, HRS, entitled “Coastal Zone Management,” where applicable; The proposed land use will not cause substantial adverse impact to existing natural resources within the surrounding area, community or region; The proposed land use, including buildings, structures and facilities, shall be compatible with the locality and surrounding areas, appropriate to the physical conditions and capabilities of the specific parcel or parcels; The existing physical and environmental aspects of the land, such as natural beauty and open space characteristics, will be preserved or improved upon, whichever is applicable; Subdivision of land will not be utilized to increase the intensity of land uses in the conservation district; and The proposed land use will not be materially detrimental to the public health, safety and welfare. Because land has been desecrated before does not mean you can continue to do so. We continue to say no to this project. We continue to expect that our concerns and objections are heard and respected by terminating this project.
Date submitted: 10/26/2021  
Name: Damien Award  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Wailuku, HI

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**Date submitted:** 10/26/2021  
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**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Papakolea, O'ahu, HI  

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**Date submitted:** 10/26/2021  
**Name:** Noelani Cortez  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kailua, HI

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**Additional comments:** As I see it, this pandemic has shed light on how Hawai‘i needs to be self-sustaining. There has been a push for local farmers to provide our produce, doesn’t it make more sense to protect our resources rather than destroy what has been given freely from our Aina? I oppose TMT being built on Mauna Kea and another thing: this land belongs to Native Hawaiians... remember where your roots are planted and stop chasing the money.
Date submitted: 10/26/2021  
Name: Kahealani Phillips  
I am: Chicana, European, Polynesian  
City, State: Kamuela, HI

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Additional comments: KŪ KIA’I MAUNA! EŌ? Eā;
**Date submitted:** 10/26/2021  
**Name:** Ursula Chong  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kamuela,

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**Date submitted:** 10/26/2021  
**Name:** Tara Rojas  
**I am:** non-Native Hawaiian  
**City, State:** O‘ahu, HI

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**Additional comments:** Lassner, Chun, Hayes, Young: YOU, lessees, do NOT OWN Mauna Kea. The physical numbers are right in front of you - online 500,000 signatures IN OPPOSITION and 30,000+ statewide marching IN OPPOSITION and thousands at the base of Mauna Kea protecting her IN OPPOSITION and 38 respected Kūpuna literally with their bodies, minds, hEArts, and spirits SAYING NO!!! STOP!!! ENOUGH!!! Avoid saying or explaining one more word. out loud or on paper = NO RENEWAL OF UH LEASE ON MAUNA KEA! NO APPROVAL OF UH MASTER PLAN! NO TMT ON MAUNA KEA! NO TELESCOPES PERIOD ON MAUNA KEA! PLEASE CLEAN UP AND LEAVE. NO = NO!
**Date submitted:** 10/26/2021  
**Name:** Rebecca Hogue  
**I am:** non-Native Hawaiian  
**City, State:** Cambridge, MA

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**Additional comments:** Kānaka Maoli do not consent to the building of TMT. Tens of thousands of Kānaka and non-Kanaka has risen up in opposition. Being a “Hawaiian place of learning” should begin with consensual collaboration with the Hawaiian people. There is no consent. TMT should never be built.
Date submitted: 10/26/2021
Name: Ginette Lolagne
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hilo, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
Date submitted: 10/26/2021
Name: Michael Kupau
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Las Vegas, NV

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments:
Date submitted: 10/26/2021
Name: Paula Duke
I am: no answer
City, State: , HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments: Technology is surpassing itself in realtime. Alignment with the Spaceforce is imperative. Collaborating to build an orbiting space station is the future. Allocating funds on outdated technology is a waste. We need our students on space missions. Astronaut Astronomers.
Date submitted: 10/26/2021
Name: Annie Yamashiro
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: ʻEwa, HI

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Hannah Keala  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Benicia, HI

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**Additional comments:** We will fight until the last vestiges of colonization are eradicated.
**Date submitted:** 10/26/2021  
**Name:** Dea Rackley  
**I am:** no answer  
**City, State:** Pāhoa, HI

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**Additional comments:** Noooooooo to - #TMT - #UH indefinite control of Mauna Kea for “present and future generations”  
- A #gate (controlled by them)  
- Increased Ranger presence (UH security forces with #Kanaka abuse history) - [ ] - profuse use of our #language and reference to #sacred elements such as the #Kumulipo and comparison of #astronomy to cultural on record I want my comment included but do NOT give consent to have your name or words used in any other way, such as being listed as having been “consulted.”
**Date submitted:** 10/26/2021  
**Name:** Margaret Conner  
**I am:** US Citizen residing in CA  
**City, State:** Larkspur, CA

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**Additional comments:** Time to end any and all attempts to continue this project.
Date submitted: 10/26/2021
Name: Moorea Keene
I am: non-Native Hawaiian
City, State: Goleta, CA

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Cathy Costa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kurtistown, HI

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**Additional comments:** These lands are the kanaka maoli land and it should be governed by kanaka maoli
Date submitted: 10/26/2021
Name: Teracia Smith
I am: non-Native Hawaiian
City, State: Hastings, Hawkes Bay, Aotearoa, New Zealand

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Kū kiaʻi Mauna! Kia kaha, kia maia, kia manawanui our indigenous polynesian Ohana!
Date submitted: 10/26/2021
Name: Mitchel Viernes
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Hannah Kela
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Benicia, CA

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Jim Albertini  
**I am:** non-Native Hawaiian  
**City, State:** Ola‘a (Kurtistown), HI

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**Additional comments:** Before we look into space we need to malama this place and respect the sacred as defined by Kanaka Maoli such as Mauna Kea. NO TMT
Date submitted: 10/26/2021
Name: Elizabeth Moreno
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: ʻEwa Beach, HI

Additional comments: I agree with all of the important and relevant points made here. Good stewards cannot ignore the voices of its people so why should you be stewards at all if you lack integrity to uphold and protect our cultural values!? It’s a shame that politics along with self-interest/greed supersedes doing what’s pono. It’s time the people let you know they are paying attention.
Date submitted: 10/26/2021  
Name: Melinda Cruz  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Mililani, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: -For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments: NO
Date submitted: 10/26/2021
Name: Nicole Kay
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kaneoh,

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Additional comments:
Date submitted: 10/26/2021
Name: Adam Tuifagu
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Papaikou, HI

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Additional comments: TMT should not and will not be built on Mauna Kea.
Date submitted: 10/26/2021
Name: B B
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Our natural resources were never endangered until our government began to attack its every aspect of natural existence. Once destroyed, we will never be able to restore it to its natural capacity. Our government is gambling with our very existence and that is a chance we will not take. There is too much at stake.
Date submitted: 10/26/2021
Name: Orlinna Meheula
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kapole, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments: Enough is enough.
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Additional comments:
Date submitted: 10/26/2021
Name: Bal Patterson
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: I do NOT consent. TMT does NOT have consent. Stop wasting taxpayers money to pursue this futile act of oppression against native culture and values. The University of Hawai‘i’s sense of entitlement with regard to making big plans that clearly exceed the 2033 lease, and that includes further rape of Hawaii’s majestic lands is appalling and proves just how importance it is for the 2033 lease to be the final expiration date of it’s tenure.
Comment Forms Received via Email

**Date submitted:** 10/26/2021  
**Name:** Ron Hagg  
**City, State:** Papakōlea, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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**Additional comments:**
Date submitted: 10/26/2021
Name: Josiah Goode
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wilmington, DE

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Additional comments: Indigenous Land preservation and politics represent the greater struggle of colonized people making the world a safer place
Date submitted: 10/26/2021
Name: Amber Kon
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Pāhoa, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Caitlin Blanchfield
I am: non-Native Hawaiian
City, State: Ithaca, NY

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Additional comments: The University of Hawai'i has proven their ineptitude in managing the mauna in manner that supports the protection of the land and Kanaka Maoli self determination. This is evident in the 1998 audit, in the decades of pollution and accumulation of trash that proceeded it, in the unheeded opposition to telescope expansion since the first, and in the fact that UH has not listened observatories went up, and in the fact that UH has not listened to the thousands of Kanaka Maoli and allies opposing the TMT. Why is the TMT still an option in this plan? Why has stewardship of the mauna not been returned to Kanaka Maoli as it is crown lands? Why does this plan call for expansion of facilities on the mauna when the public has made clear they want no construction? Why have public conversations on this plan been heavily regulated? I oppose this plan because it does not address the main issues at stake with the management of Maunakea and public review has been conducted ineffectively.
Date submitted: 10/26/2021  
Name: Kaylene Sheldon  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Kaaawa, HI  

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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Mariah Case  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kailua Kona, HI

**Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:**
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. **X**
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**Additional comments:** A'ole TMT we say no
Date submitted: 10/26/2021
Name: kaupena kalima
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wailuku, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments:
**Date submitted:** 10/26/2021  
**Name:** Eric Van Natta  
**I am:** non-Native Hawaiian  
**City, State:** Kaneohe, HI  

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**Additional comments:**
Date submitted: 10/26/2021
Name: Tana Alana
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Papakōlea, O‘ahu, HI

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- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending.

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- Over half a million Kanaka Maoli, Hawai‘i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea.

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Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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- Furthermore, the UH has no jurisdiction to block access to the Mauna Kea summits and should not be allowed to extend their lease beyond the current lease expiration of 2033. No means no!

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Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- Lastly, the Kanaka Maoli people and the wider community are being asked to comment on multiple plans related to lease extensions on Mauna Kea within a very short period of time. The US military was recently asking for comments on the Pohakuloa Training Area EIS and the UH is asking for comments on the Hōkū Kea Telescope and the Caltech Submillimeter Observatory decommissioning while simultaneously asking for comments on their Mauna Kea Master Plan all under the cover of Covid-19 restrictions. Shame on the UH!

X

Additional comments: First and foremost, provide the Treaty of Annexation. Second, get off, and stay off our Mauna!!!
Date submitted: 10/26/2021  
Name: Pamela Rubin  
I am: Canadian  
City, State: Halifax, Nova Scotia, Canada

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: |  
| For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X  
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**Additional comments:** Land back, bodies back! No more clinical settler construction on Hawaiian lands. I love Hawaii and do not want to see it’s sacred land desecrated. Thank you.
Date submitted: 10/26/2021
Name: Mana Caceres
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kapolei, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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X

Additional comments: I do not consent to the continued desecration of Mauna Kea.
Date submitted: 10/26/2021
Name: Jan Kekua-Spencer
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua-Kona,

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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X

Additional comments:
Date submitted: 10/26/2021  
Name: Noelani Ahia  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Waiehu,

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
Date submitted: 10/26/2021
Name: U‘ilani Perry
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wai‘anae, HI

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Additional comments:
Date submitted: 10/26/2021
Name: Teal Willingham
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua, HI

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Additional comments: Space based telescopes will quickly make TMT obsolete. Vox had an article about the new James Webb Space Telescope on September 22, which made very clear that TMT is no more than a vanity project for UH and the involved parties.
Date submitted: 10/26/2021
Name: Denise Ropa
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Lānaʻi City, HI

Opposition to the University of Hawaiʻi (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawaiʻi and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Please stop
**Date submitted:** 10/26/2021  
**Name:** Fay McFarlane  
**I am:**  
**City, State:** Lahaina, HI

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**Additional comments:** It cannot be understated that the greater community at large opposes the current version of the Mauna Kea Master Plan proposed by UH. It remains unacceptable to the majority of the Kānaka Oiwi population as well as the majority of the non-native Lāhui. I strongly criticize this plan and will stand in opposition to the implementation of the plan.
**Date submitted:** 10/26/2021  
**Name:** Aaron Veincent  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Ha‘ikū, Maui,

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**Additional comments:**
**Date submitted**: 10/26/2021  
**Name**: Comet ʻAu‘a Enos-Nakanelua  
**I am**: Kanaka Maoli (aka Native Hawaiian)  
**City, State**: Hilo, HI

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**Additional comments:**
**Date submitted:** 10/26/2021  
**Name:** Kahaka Patolo  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu

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**Additional comments:** A'OLE TMT
Date submitted: 10/26/2021
Name: Monika Kerr
I am: non-Native Hawaiian
City, State: Denver, CO

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Additional comments: 'A‘ole TMT
**Date submitted:** 10/26/2021  
**Name:** Dana Paresa  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Portland, OR

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**Additional comments:**
Date submitted: 10/26/2021
Name: Noelani Tupou
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Mānoa, HI

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Additional comments: I think the time has come for others to mālama (take care of) Mauna Kea! UH is not the correct entity to do so. We do not want a TMT on our sacred Mauna Kea.
Date submitted: 10/26/2021
Name: Shannon Rudolph
I am: non-Native Hawaiian
City, State: Hōualoa, HI

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Additional comments: I am a 40 year Hawai‘i Island resident who is horrified with UH's 'management' of Mauna Kea. I do not consent.
Date submitted: 10/26/2021
Name: Troy Wong
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kapa'a, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: You should have taken the defeat at the hands of our Lahui. Now you probably think with all these distractions and the pandemic is gonna keep us busy and not protect Mauna Kea. Think again! If you thought 2019 was bad for you..wait til come 2022. We will unite again and rise!
Date submitted: 10/26/2021
Name: Kahala Johnson
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wailuku, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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Additional comments: Aole TMT. No means no.
Date submitted: 10/26/2021
Name: Sierra Keolanui
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments:
Date submitted: 10/26/2021
Name: Nicola Jackson
I am: Meskwaki native
City, State: Wai‘anae, HI

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Date submitted: 10/27/2021  
Name: Sophia DiMaio  
I am: non-Native Hawaiian  
City, State: Ronkonkoma, NY

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Additional comments: GET OFF THEIR LAND!!
**Date submitted:** 10/27/2021  
**Name:** Kaniela Matsushima  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Līhuʻe, HI

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**Additional comments:** The corporation of the United States and the state of Hawaii have are illegally occupying the Kingdom of Hawaii. The state of Hawaii along with all the counties have been oppressing Kanaka Maoli, desecrating our lands, ancestral burials, and diverting and polluting our waters. It’s time to restore pono (righteous) to our lands. I oppose any and all activities from the state of Hawaii and United States on Mauna Kea and Pohaku Loa.
Date submitted: 10/27/2021
Name: David Russell
I am: non-Native Hawaiian
City, State: Kealakekua, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:

- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending. X

- Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea. X

- There were 31 Mauna Kea protectors arrested on April 2, 2015 and 38 respected elders arrested on July 17, 2019. They were arrested for standing in opposition to the building TMT and the desecration of Mauna Kea. X

- On September 12, 2021, the UH released its draft Master Plan for Mauna Kea to the public. Yet despite decades of Hawai'i's native people saying NO to any further development and 12 years of strong community opposition to the building of TMT atop Mauna Kea the UH (a publicly supported institution of higher learning) continues to make the building of TMT and development a priority. X

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- Furthermore, the UH has no jurisdiction to block access to the Mauna Kea summits and should not be allowed to extend their lease beyond the current lease expiration of 2033. No means no! X

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Additional comments: It is time you listen to the vast majority, and especially Kanaka Maoli, most of who oppose the construction of the Thirty Meter Telescope on Mauna Kea. Instead of continuing to pursue a project that obvious opposition from the local community, projects that will directly benefit and therefore support the larger community should be pursued instead.
**Date submitted:** 10/27/2021  
**Name:** Haunani Hess  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Pearl City,

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT: - For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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**Additional comments:** Listen to what the indigenous people are saying and wanting for their own sacred sites. Ignoring overwhelming dissent is criminal. TMT is a willful enterprise that requires desecrating a Native Hawaiian sacred site. No TMT!
**Date submitted:** 10/27/2021  
**Name:** Ekin Lindsey  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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**Additional comments:** Do your diligence duty to protect what is sacred!
**Date submitted:** 10/27/2021  
**Name:** Momi Tong  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Ola’a, HI

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**Additional comments:**
**Date submitted:** 10/27/2021  
**Name:** Laura Dvorak  
**I am:** non-Native Hawaiian  
**City, State:** Hilo, HI

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**Date submitted:** 10/27/2021  
**Name:** Leilani Pao  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kailua, HI

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**Additional comments:**
Date submitted: 10/27/2021
Name: June Andrade
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kona, HI

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**Date submitted:** 10/27/2021  
**Name:** Persian Asuncion  
**I am:** no answer  
**City, State:** Waipahu, HI

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**Additional comments:**

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Page 1305
Date submitted: 10/27/2021
Name: Lindsay Gragasin
I am: non-Native Hawaiian
City, State: Honolulu, HI

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Additional comments:
Date submitted: 10/27/2021  
Name: Kimberly McDowell  
I am: non-Native Hawaiian  
City, State: Kailua, HI

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Additional comments: Do what is right and protect what is sacred. It may not be sacred to most people, but it is sacred to the people of this land. Mauna Kea belongs to the native Hawaiians and sacred land needs to be protected.
**Date submitted:** 10/27/2021  
**Name:** Joshua Kahele  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kahului, HI  

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**Additional comments:** I do not consent to the building of the TMT
Date submitted: 10/27/2021  
Name: Elizabeth Weitz  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

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Additional comments: I am a PhD student at UH. Stop colonizing education and knowledge.
**Date submitted:** 10/27/2021

**Name:** Kirie Santos

**I am:** Kanaka Maoli (aka Native Hawaiian)

**City, State:** Pāhoa, HI

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
**Date submitted:** 10/27/2021  
**Name:** Malia Umi  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Mililani, HI

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**Additional comments:** 'A'ole TMT
**Date submitted:** 10/27/2021  
**Name:** Amberlene Thompson  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/27/2021  
Name: Barbara Altemus  
I am: non-Native Hawaiian  
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Additional comments:
Date submitted: 10/27/2021
Name: Karen Thatcher
I am: Native Hawaiian and, I am a UH student, mother, sister, grandmother, and friend who is also of Caucasian and Chinese decent.
City, State: Kapahulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

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Additional comments: Please stop. Take Mauna Kea off of the potential site list for this project. UH should've held exclusive rights with their 1 telescope instead of selling out for more money and desecrating a sacred water source. Your staff has disagreed with this idea, your students have protested (the majority), men, women, children, kupuna from around the planet has voiced their rejection of this project. The majority has spoken, its time for you to listen. I ask that you scrap any and all development for TMT and future telescopes. Remove, clean, restore, preserve Mauna Kea. Mahalo.
**Date submitted:** 10/27/2021  
**Name:** Jaclyn Harvey  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:** When will the desecration of Mauna Kea STOP!!? When will the voices of Kanaka Maoli be heard!? We as Kanaka Maoli have a responsibility to the 'Āina, a kuleana to protect it!! How much longer before you realize that another monstrosity on the top of Mauna a Wākea is not acceptable??!! I ask that you reconsider the building of TMT on our precious Mauna!
**Date submitted:**  10/27/2021  
**Name:**  Kimmy Diaz  
**I am:**  non-Native Hawaiian  
**City, State:**  Honolulu, HI

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**Additional comments:**
**Date submitted:** 10/27/2021  
**Name:** Brittany Chambrella  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kapolei, HI

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |  
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**Additional comments:** I do not consent to the building of any telescopes on Mauna Kea or any other natural spaces in Hawai‘i.
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Additional comments: As many have noted, the issue of the TMT is multi-layered, multi-faceted and extremely complicated at best. Although this is true, it is also true that the solution to this conflict is elegantly simple. Aloha aina. Imagine the love that you have for your family, for your mother, your brother, your son. Hold on to the deep emotion within and imagine feeling that same love when you look at a field of kalo, a school of fish swimming near the reef, or a majestic mountain standing tall above the clouds. It's not the appreciation of beauty or the objectification of nature, it's a deep, visceral connection. Aloha aina is a call to strive to live in harmony and balance with everyone and everything around you. Those in support of the would-be telescope claim economic benefits, advancement of scientific knowledge and community pride. I state that we can reach those same goals through aloha aina and do so without increasing the already significantly adverse environmental impact. We can encourage our community members to become more aware of the issues that affect them and get more involved with finding and creating solutions. We can fund education, not by taking from others and corporations, but by using the resources we have in our own communities. In my opinion, no amount of money will ever be worth jeopardizing the future of this place, of our island home. And to me, the construction of the TMT will do just that. Those who criticize the protectors of Mauna a Wakea have stated that we are not willing to compromise. To them I say, the familial relationship between humans and the environment requires that we care for that which cares for us and protect that which protects us. There is no compromise in aloha aina, there is only action.
**Date submitted:** 10/27/2021  
**Name:** Izak Morton  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wailuku, HI

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**Additional comments:**
### Date submitted: 10/27/2021

**Name:** Malia Thompson  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Pukalani, HI

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**Additional comments:**
**Date submitted:** 10/27/2021  
**Name:** Kikilia Lani  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Ualakaa, HI  

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**Additional comments:**
Date submitted: 10/27/2021
Name: Christopher Kanehila Freitas
I am: Native Hawaiian, Hawaiian kingdom subject there is no Native More like Hwn National no Treaty Of Peace or Annexation
City, State: Wai’anae, HI

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Additional comments:
Date submitted: 10/27/2021
Name: Hi‘ileiakaulilinoe Kehano
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kula, HI

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Additional comments:
Date submitted: 10/27/2021  
Name: Brooke Rodenhurst  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Honolulu, HI

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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** McKenna Bonn-Savage  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/27/2021
Name: Cali Nawaakoa
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Wailuku,

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Date submitted: 10/27/2021  
Name: Maelani Lee  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Waiʻanae, Oʻahu, HI

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Additional comments: I oppose the New Mauna Kea Master Plan and with all respect to all, my family are heirs to Kāohe and ask that you cease and desist from any further planning and development of the TMT and all telescopes unless they are planned to be decommissioned. ~The Lee Family, Queen of Hawaii.
Date submitted: 10/27/2021
Name: Dakota Lanning
I am: non-Native Hawaiian
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Education in Hawaii has had a history of degrading and disregarding Kanaka Maoli in favor of colonizer control and "enlightenment". In light of this history of wrongdoings, UH is still choosing to disregard the voices of Hawaiians and continue this settler methodology and mindset of "we know what's best and you are wrong/denying progress if you disagree". Science should not happen at the expense of a people and yet here we are. Where are the ethics in this pursuit of knowledge? Nowhere.
Date submitted: 10/27/2021  
Name: Michelle Kitashima  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: Haiku, HI

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Additional comments: Aloha Aina! Blessings to all. Mahalo!
**Date submitted:** 10/27/2021  
**Name:** Roxane Keliikipaneokolohaka  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:** No matter how you spin the PR, all you are doing is asking the same question until you get the answer that YOU want. It is not at all about actually listening to & abiding by the overwhelming opposition every time you ask.
**Date submitted:** 10/27/2021  
**Name:** Tami Winston  
**I am:** non-Native Hawaiian  
**City, State:** Honokaa, Haeii, HI

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Date submitted: 10/27/2021
Name: John Collado
I am: non-Native Hawaiian
City, State: Wahiawā, HI

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Additional comments:
Date submitted: 10/27/2021
Name: Kayla Matsushima
I am: non-Native Hawaiian
born and raised Hawai‘i
City, State: Kīlauea, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Let us also remember that we are still under an illegal occupation by the USA. Anyone claiming to have jurisdiction over Mauna Kea that is not Kanaka Maoli is in direct opposition to the Kingdom of Hawai‘i. It is unlawful for anyone either than Kanaka Maoli to be making decisions on behalf of Mauna Kea, and all lands of the Hawaiian Kingdom.
Date submitted: 10/27/2021
Name: Rowena Rojo
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:—For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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Additional comments: Save our sacred ‘aina, our Kupuna imi and the awufe for the Island of Hawai‘i and all Of the people that lives there!
**Date submitted:** 10/27/2021  
**Name:** Gwen Kim  
**I am:** non-Native Hawaiian  
**City, State:** Ka‘a‘awa, HI

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**Additional comments:** Staunchly Against TMT
**Date submitted:** 10/27/2021  
**Name:** Donna Ching-Foster  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:**
**Date submitted:** 10/27/2021  
**Name:** Mikayla Mitchell  
**I am:** non-Native Hawaiian  
**City, State:** Waimea, HI

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**Additional comments:**  
Times have changed. It should no longer be the colonialist’s right to desecrate sacred land that has been protected by indigenous for thousands of years. WE/Colonialists do NOT know best. To think we can do better than the keepers of this sacred land is pompous and egotistical. Let the protectors of our life blood protect it. Leave Maura Kea be, it is fine a is.
Date submitted: 10/27/2021
Name: Maya Abarca
I am: non-Native Hawaiian
City, State: ʻEwa Beach, HI

Opposition to the University of Hawai’i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai’i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.  

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Additional comments: Protect indigenous land
**Date submitted:** 10/27/2021  
**Name:** Kaimalialani McTavish  
**I am:** non-Native Hawaiian Polynesian, Tahitian (Maohi)  
**City, State:** Nāʻālehu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Addition comments:**
**Date submitted:** 10/27/2021  
**Name:** Bronze Fonoimoana  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kahuku, HI

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**Additional comments:** No building on sacred land!!!
Date submitted: 10/27/2021
Name: Ada Ball
I am: non-Native Hawaiian
City, State: Siletz, OR

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Additional comments: I hope to travel to Hawaii in the future and my visit will be culturally and spiritually impacted by the nonconsensual construction of the telescope on a meaningful site the sovereign Hawaiian people.
Date submitted: 10/27/2021
Name: Dana Okuma
I am: non-Native Hawaiian
City, State: Wahiawā, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Why do you need to build an observatory?? Why not focus on the issues that are happening on Earth before you go looking for another planet? Why not use that money to save our planet from climate change by endorsing and enforcing The Plant Basrd Treaty? It is better for the animals, humans, and the environment.
Date submitted: 10/27/2021
Name: Ki‘ilani Spencer
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honokaa, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Stephen Hicks  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/27/2021
Name: Jessica Chirico
I am: non-Native Hawaiian
City, State: Kiʻauea, HI

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Additional comments:
Date submitted: 10/27/2021
Name: Esther Moi
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Springfield, MO

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Evil will never prevail and you all are still invading lands that DO NOT belong to you. Respect the aina and leave the lands alone
**Date submitted:** 10/27/2021  
**Name:** Elise Carrell  
**I am:** non-Native Hawaiian  
**City, State:** Oakland, CA

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**Additional comments:**
Date submitted: 10/27/2021
Name: Puaena Ahn
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honomū, HI

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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Raul Goodness  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Wailuku, HI

| Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X |
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**Additional comments:**
**Date submitted:** 10/27/2021  
**Name:** Nazlie Figueroa  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:** Protect the land at all costs.
**Date submitted:** 10/27/2021  
**Name:** Marco Bernardi  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Additional comments:**
Date submitted: 10/27/2021
Name: Alec Marentic
I am: non-Native Hawaiian
City, State: Mountain View, HI

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- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.
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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Trevor Atkins  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Honolulu, HI

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**Additional comments:** I am Hawaiian. I am a student at UHM. I was not consulted or informed. I disagree with this Master Plan.
**Date submitted:** 10/27/2021  
**Name:** Kailani Meheula  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kaneohe, HI

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**Additional comments:** Mandatory Hawaiian History Class for the US and their foreign friends along with some restoration to our people and our land sound Pono! Stop whoring Hawai’i!
Date submitted: 10/27/2021
Name: Aubrey Hounshell
I am: non-Native Hawaiian
City, State: Kau, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: Pretty sure the people's decision was final. This is a pseudo democracy after all, at least pretend that the populous have an intrinsic right to self governing based upon the wants and wishes of the majority. Furthermore, the supposedly elected, fiscally elite in control of the governing bodies could not be farther from understanding the cultural and environmental needs of the people and planet they so eloquently fail to support in any resolve ever. This particular issue has been determined through the actions and perseverance of the Kingdom Hawaii and its lawful and sovereign People. This particular issue of #TMT has divided the inhabitants of this land and made it particularly difficult for people without Hawaiian Koko to simply exist. The torment of the many for the greed of a few. It's time to lay this issue to rest. Otherwise more wasted community dollars and an uprising of the people, such as this government has never seen and a course of action that contains the repercussions of their actions. The absolute tyranny of the Hawaiian People since 1823. The reparations are long over due. In simple, to the people responsible for the financial component of tmt: please abandon your resolve. You are tearing our community apart. We are guests in a sovereign land. By any means necessary, respect and honor the culture of our hosts as they have respected (under threat of imprisonment and death) our commercial extortion and exploitation of their most fertile and beautiful lands.
**Date submitted:** 10/27/2021  
**Name:** Seán Ó Connor  
**I am:** non-Native Hawaiian  
**City, State:** Haiku, HI

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**Date submitted:** 10/27/2021  
**Name:** Nedi Miki‘oi McKnight  
**I am:** non-Native Hawaiian  
**City, State:** Paʻauilo,

| Opposition to the University of Hawaiʻi (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawaiʻi and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. | X  
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**Additional comments:** NO TMT - Public and resident outrage will be immense. Stop shitting on indigenous people.
Date submitted: 10/27/2021  
Name: Alyssia Fossorier  
I am: non-Native Hawaiian  
City, State: Honolulu, HI

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**Date submitted:** 10/27/2021  
**Name:** Tiana Pereira  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Waipahu, HI

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**Additional comments:**
Date submitted: 10/27/2021
Name: Jena Au
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: , HI

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**Date submitted:** 10/27/2021  
**Name:** Jessica Conner  
**I am:** non-Native Hawaiian  
**City, State:** Kailua-Kona, HI

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**Additional comments:** Take a step back and recognize the generational trauma that colonization has placed upon our fellow Kānaka Maoli. UH, now is your time to help heal a community. Release the Mauna back to its people.
**Date submitted:** 10/27/2021  
**Name:** Lucia Miramontes  
**I am:** non-Native Hawaiian  
**City, State:** Salt Lake City, UT

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**Additional comments:** You should be ashamed
**Date submitted:** 10/27/2021  
**Name:** Nichole Inouye-Nohara  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kihei, HI

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**Additional comments:**
Date submitted: 10/27/2021
Name: Walter Tavares
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hauula, HI

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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Kuuleianuhea Awo-Chun  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Kailua, HI

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**Additional comments:**
**Date submitted:** 10/27/2021  
**Name:** Stacey Moniz  
**I am:** non-Native Hawaiian  
**City, State:** Makawao, HI

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**Additional comments:** Please help preserve our island.
**Date submitted:** 10/27/2021  
**Name:** Tonya Crockett  
**I am:** non-Native Hawaiian  
**City, State:** Conifer, CO

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**Additional comments:** I went to UHHilo and stand behind the natives with their movement to protect the sacred land of Mauna Kea.
Date submitted: 10/27/2021  
Name: Natalie Borsky  
I am: no answer  
City, State: Honolulu, HI

| Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:--For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X |
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**Date submitted:** 10/27/2021  
**Name:** Anya Meredith  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Provo, UT

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**Additional comments:**
Date submitted: 10/27/2021
Name: Gabriel Feliciano
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kamuela, HI

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Additional comments:
**Date submitted:** 10/27/2021  
**Name:** Kamea Blackman  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Sanford, FL

### Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
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### Additional comments:
Date submitted: 10/27/2021
Name: Kalani Dedrick
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Ka‘ōhau, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:

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X

Additional comments: Enough is enough. No more desecration on Kingdom of Hawai‘i property. ‘A‘ole TMT. Kū Kia‘i Mauna
**Date submitted:** 10/27/2021  
**Name:** Dasia Nahoomii  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hauula, HI

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**Additional comments:**
Date submitted: 10/27/2021  
Name: Katherine Mora  
I am: non-Native Hawaiian  
City, State: Kailua, HI

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Additional comments:
Date submitted: 10/27/2021
Name: Leanne Lukela
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua, HI

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Additional comments: Give the kanaka what's theirs.
Date submitted: 10/27/2021
Name: Raine Henry
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Denver, CO

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Additional comments: I am part of the Kanaka Maoli diaspora. UH taking ancestral lands that I have not had access to is theft. Theft of culture, history, and of land.
Date submitted: 10/27/2021
Name: Cinzia O
I am: non-Native Hawaiian
Pohnpeian
City, State: Honolulu, HI

Opposition to the University of Hawai‘i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai‘i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments:
Date submitted: 10/27/2021
Name: Nadine Banglos
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: 91-1159 Keahomua Parkway,

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**Date submitted:** 10/28/2021  
**Name:** Lauren Barclay  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu / Houston,  

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**Additional comments:** Kanaka maoli have always been and always will be the only group of people who truly have Hawai'i’s best interest at heart; to disrespect them is to disrespect Hawai'i itself.
Date submitted: 10/28/2021
Name: Joyce Wond
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:-For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain.

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Additional comments: A'OLE TMT A'OLE
**Date submitted:** 10/28/2021  
**Name:** Juvana Soliven  
**I am:** non-Native Hawaiian  
**City, State:** Honolulu, HI

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**Date submitted:** 10/28/2021  
**Name:** Sadie Eckart  
**I am:** no answer  
**City, State:** Kailua,

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**Additional comments:** No, to building anymore telescopes on Mauna Kea. It is a cultural and sacred area. From childhood, my parents spoke of the Sacred Hawaiian Land. Over a million people internationally agree there should be no more telescopes. They have mis-managed and polluted the site. No to anymore of this. I know the Palm Springs Indians hold their lands sacred and malama and cherish every square foot. We will do the same. Stop, with the money pitches, the indigenous people and all are against it. This is recorded in history. Our eco and infrastructure are worth more than money. Sincerely, Sadie Eckart.
Date submitted: 10/28/2021
Name: Kapiʻolani Kaowili-Mclain
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Surprise, AZ

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Additional comments:
**Date submitted:** 10/28/2021  
**Name:** Rebecca Maria Goldschmidt  
**I am:** non-Native Hawaiian  
**City, State:** Palolo Valley, Honolulu, HI

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**Date submitted:**  10/28/2021  
**Name:**  Kathleen Sanner  
**I am:**  Kanaka Maoli (aka Native Hawaiian)  
**City, State:**  Keau, HI

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Date submitted: 10/28/2021
Name: Chad Listman
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hanalei, Kaua‘i, HI

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Date submitted: 10/28/2021
Name: Shaylyn Kimura
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kīlauea, HI

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**Date submitted:** 10/28/2021  
**Name:** Heath Hornsby  
**I am:** non-Native Hawaiian  
**City, State:** Elsa, HI

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**Additional Comments:** The rights of the Kanaka Maoli to have their sacred spaces should be respected, as should the practices of all Indigenous Peoples
Date submitted: 10/28/2021
Name: Alex Cann
I am: non-Native Hawaiian
City, State: SD, CA

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- For decades, Kanaka Maoli have been vigorously advocating for the protection of Mauna Kea and in the past 12 years, there have been mass demonstrations throughout Hawai'i and abroad in opposition to the building of the Thirty Meter Telescope (TMT) on Mauna Kea. Tens of thousands have occupied Mauna Kea and marched to stop the desecration of our sacred mountain. X

Opposition to the University of Hawai'i (UH) Mauna Kea Master Plan for the next 20 years which includes the building of TMT:
- There have been numerous lawsuits and contested cases hearings challenging the permitting and construction of TMT and other further development atop Mauna Kea. Some of these suits and cases are still pending. X

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- Over half a million Kanaka Maoli, Hawai'i residents, and world citizens have provided testimony at countless hearings and signed positions and petitions opposing the building of the TMT on the summits of Mauna Kea. X

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Additional comments: Jesus Christ, stop messing with what makes Hawaii, Hawaii and what we’ve all come to love about it. This is NOT your land as much as you think it is… you are on the wrong side of history here, friends. Do the right thing. If the kanaka says they don’t want it, you shouldn’t force it down their throats. I will remind you, this is not your land.
Date submitted: 10/28/2021  
Name: Nadav Yair  
I am: Kanaka Maoli (aka Native Hawaiian)  
City, State: , Israel, Samaria

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**Additional comments**: Even through American Law, we the Hawaiians are the Legal Owners of our STOLEN LANDS!
**Date submitted:** 10/29/2021  
**Name:** Ida Perez  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Hilo, HI

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**Additional comments:** What is sacred is always sacred!!! Go build it somewhere else. Mother Earth has been damaged through pollution, over fishing, dug for mining, fragged, and burned. Why look for other planets to destroy? Sole TMT!
Date submitted: 10/29/2021
Name: Ida Perez
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Hilo, HI

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Additional comments: What ever is considered sacred by any indigenous people should be always be sacred. We kanaka Maoli are taught from babies to respect our Kupuna, we are ready to take on any foreign people to save what is our legacy! To even attempt to desecrate the sacred is not Pomo. The countries That are sponsoring the TMT project are the very countries who pollute the earth the most. India’s water ways are filthy with human remains and excrements’ Japan is leeching radioactive wastes into our pertinent Pacific Ocean, they are depleting our sea animals and killing our Mano! America is even worst with their contamination of the soil, waterways and air. They pollute the rivers with spilt oil, coal mine and factory wastes,
Date submitted: 10/29/2021
Name: Natalie Jardine
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Honolulu, HI

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Additional comments: A’OLE TMT
Date submitted: 10/29/2021
Name: Alisha Kaluhiokalani
I am: Kanaka Maoli (aka Native Hawaiian)
City, State: Kailua, HI

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Additional comments: As a Kanaka Maoli pursuing my Bachelors degree in Social Work at UH, I feel it is my kuleana to show my support in Aʻole TMT. My question to you: How can you push a plan to desecrate and build on our land time and time again and teach about the history, our culture, and language and not feel guilty about doing what you are trying to do? It seems so hypocritical that you do the exact thing that oppressed our people, taking our aina for gain of another ... Where is the justice for our people? When will the oppression stop? Why???? How does this benefit my people? Always taking what is not your, acting just like the Westerners that stole our identity, our land, our culture. How do you sleep at night knowing that you are stealing from my people again?? Hewa!!!
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**Additional comments:** This suffering of many for the greed of the few is not acceptable. Moving forward with the TMT project is horrific from a social justice standpoint. I rejoice in scientific advancement but it is not advancement when it desecrates the sacred. Stop the Mauna Kea TMT project.
**Date submitted:** 10/30/2021  
**Name:** Georgina Valles  
**I am:** Kanaka Maoli (aka Native Hawaiian)  
**City, State:** Oxnard, CA

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<td>Lastly, the Kanaka Maoli people and the wider community are being asked to comment on multiple plans related to lease extensions on Mauna Kea within a very short period of time. The US military was recently asking for comments on the Pohakuloa Training Area EIS and the UH is asking for comments on the Hōkū Kea Telescope and the Caltech Submillimeter Observatory decommissioning while simultaneously asking for comments on their Mauna Kea Master Plan all under the cover of Covid-19 restrictions. Shame on the UH!</td>
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**Additional comments:**
14 WRITTEN TESTIMONY RECEIVED FOR DECEMBER 16, 2021, BOARD OF REGENTS MEETING
Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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<tr>
<th>Your Name (required) *</th>
<th>Dana Keawe</th>
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<td>Your Organization (optional)</td>
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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:danamalina@yahoo.com">danamalina@yahoo.com</a></td>
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<td>Oppose</td>
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<td>Your Testimony (pdf or word)</td>
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**Public Testimony Form - University of Hawaii Board of Regents**

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*Page 1400*
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Your Name (required) *
Dennis Boyd

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
dennisnmnb@gmail.com

Board of Regents Agenda Item (required) *
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Your Position (required) *
Support

Your Testimony/Comments

The Center for Mauna Kea Stewardship has taken a long, hard and inclusive look at the future of Maunakea. Its efforts have been collaborative and responsive to the concerns voiced by many in the community and the path it lays out for future stewardship is thoughtful, respectful and creative. Hawaii needs astronomy; Hawaii needs the mountain on which the most fruitful astronomy in the world occurs managed appropriately and efficiently; Hawaii needs to look to the future and honor its past. The plan proposed by the Center for Mauna Kea Stewardship furthers all of these aspirations. I strongly support it.
(I've copied this from Imua TMT, but I fully agree with the contents.)

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

--
Kevin Davies
Assistant Researcher
Hawai'i Natural Energy Institute
University of Hawai'i at Mānoa
1680 East-West Road, POST 109
Honolulu, HI 96822
Cell: (808) 271-5007
I'm all for it. Despite the din from the myopic naysayers, UH has done a great job managing astronomy on the mountain, and the struggles of the recent past will help guide UH to do an even better job in the future. Astronomy is one the best things we have going on this island, and TMT will be one of the best things ever to happen to this island. Just build it! My brother-in-law William Southwell did the groundbreaking math that made Laser Guidestar possible, and he taught me to look skyward when I was 5 years old. Let's keep the good science going stronger and stronger so our children and the world can continue to learn about the real universe.

Sincerely,
Walter Greenwood
UH Hilo Performing Arts Department

Quidquid Latine dictum sit, altum videtur.
University of Hawaii Board of Regents,

I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

Respectfully,
Kathy A. Reinhart

Sent from my iPhone
I support the UH Master Plan and TMT.

Astronomy and the Polynesians go back to when people first populated the islands.

They got here by following the stars and their urge to learn and explore.

That is what TMT is about, learning and exploring the heavens.

Mahalo

Aloha,
George

George R. Norcross
36A Mamalahoa Place
Honolulu, HI 96817
808 220-2986
As a 25 year resident of Kona I want to submit the following Support Statement:
I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Ronald G Ball
76-861 N Manu O Ku PL
Kailua-Kona HI 96740
704 202-9147
Aloha,

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The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Mahalo,
Marc Lefebvre
(808)298-3560
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Dear UH Board of Regents,

I completed some of my graduate work at UH Manoa.

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Aloha,

Erik Petigura
No better way to advance science than providing new information.
No better way to advance astronomical information with a better telescope

Maybe our planet can be saved and allow a few more trips around the Sun

We need the TMT asap

Michael Kimball MD
96743

Sent from the all new AOL app for iOS
I support the building of the 30M telescope on Mauna Kea. Admittedly I am not of Hawaiian descent, but I think their ancestors would approve of this distinct project. They were brave explorers and an adventurous society. The telescope is something to be proud given the proximity of the Hawaiian Islands, and will provide a unique opportunity to young Hawaiians. I do not believe it diminishes the sacredness of the mountain.

Bette Belanger
Kihei, HI
Aloha

I am in full support of the Master Plan and the Thirty Meter Telescope.

Science and knowledge of the cosmos are important to humankind and a building block for future inspiration. Building the TMT will provide ever increasing discovery, will also provide an increase in pride for our state, and further the education of all.

Mahalo to UH for their achievement in astronomy so far, with more to come.

Valerie Weiss
Grandmother of 2 UH graduates and one current senior.

Kapaa
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Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Richard L. Lawyer

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
marioboy2003@hotmail.com

Board of Regents Agenda Item (required) *
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Your Position (required) *
Support

Your Testimony/Comments
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Your Testimony (pdf or word)
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<th><strong>Your Name (required)</strong>*</th>
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<tr>
<td>Chris King</td>
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**Your Organization (optional)**

Microsoft

**Your e-mail address (in case we need to reach you)***

kingces95@gmail.com

**Board of Regents Agenda Item (required)***

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**Your Position (required)***

Support

**Your Testimony/Comments**

I am Hawaiian. I support building TMT and allowing UH to continue to manage the land. Come on already.
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Your Name (required) *
Teague Soderman

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
theteague@hotmail.com

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Your Position (required) *
Support

Your Testimony/Comments

Hawaii has a long and rich heritage in astronomy and celestial navigation, and I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a great job managing Mauna Kea over the last 20 years, especially with respect to building the TMT. I wholeheartedly support TMT and I hope UH can ensure TMT is built. I’m proud that Mauna Kea is well managed, and that Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, good paying jobs, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and...
our state as a whole, for the economic diversification and world-class science. Please support responsible development. i mua TMT!

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<td>Steven Pagano</td>
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<tr>
<td><a href="mailto:stevenjpagano@aol.com">stevenjpagano@aol.com</a></td>
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<td>TMT represents a brilliant opportunity to shed light on our true ancestry and our existence. We support all efforts to further this cause.</td>
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Your Testimony (pdf or word)
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Actions

Close
Export
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Janet Mitchell

Sent from my iPhone
Aloha!

Edward Archangel Michael Odquina <viphonolulu@gmail.com>
To: bor testimony@hawaii.edu

Name is Edward Rambo Odquina Kū.

....Our ancestors have always been the greatest of astronomers and our King Kamehameha would have had all those so-called "Protectors" heads cut off for interfering with the study of the stars.

... THIS TELESCOPE IS NOT JUST ABOUT MAKING HAWAII AND AMERICA THE UNDISPUTED LEADER IN THE STUDY OF THE STARS, IT CAN SAVE HUMANITY.

IF THERE IS ONE THING YOU MUST DO IN YOUR LIFETIME, IT'S TO LEAVE OUR WORLD A BETTER PLACE.

BUILD THE TMT....

THIS TIME, I SUGGEST BUILDING A BIG JAIL AT THE BASE SO THAT ANYONE WHO UNLAWFULLY IMPEDES PERMITTED TRAFFIC CAN GET THROWN IN...BOOKED.....AND BAILED. EACH TIME THEY ARE FINED....MONEY ALLOCATED TO THE CITY AND COUNTY AND TO THE TMT.

......GET PERMITS FOR A JAIL OR PRISON FIRST.

......We can't be bullied or extorted by these FAKE NEWS HAWAIIANS anymore.

NO MORE PLAYING NICE AND DIPLOMATIC.

ENFORCE THE LAW.

......Or, simply HIRE ME, and I'll make sure these annoying "Protectors" stay away.

Edward Rambo Odquina Kū

808-233-8654
The University should support the Thirty Meter Telescope, as it is a noble project not only using talent from the state and the nation, it also brings together nations toward a common goal, nations like China and India whose relations are at times uneven. There are projects that bring the best of us together and that deserve to happen. This is one. TMT will be a great asset to the State, the Nation and the world.

And make no mistake about it, if the Obstructionists succeed in driving away TMT it will be a tragedy, they will then go after the rest of the telescopes. Between that the fall of Arecibo America will then be wavering if not in decline in relation to the rest of the world in ground based Astronomy.

Sincerely,

Don Davis
HI,
I am pro education and exploration,

BUT
Those other telescopes (5 of them) need to be taken away and recycled or responsibly disposed of or sold to another country or state—— before TMT is allowed to be built!

We cannot continue to pollute the land and the earth! We cannot leave our ’opals for the future generations!

If they can spend billions on a new telescope, I’m sure “they” can get rid of the old ones first!!! Or get the countries who built them to help pay to dispose of them properly!!!

Thank you,
Stacie Friel
45-666 Uhilehua Place
Kaneohe
Kamehameha snd UH graduate
Mother, wife, grandmother
Retired Teacher
Native Hawaiian
Resident
Human
Earthling
Child of God

Sent from my iPhone
Comment in support of UH's Maukakea Master Plan

Paul Hirst <paul.hirst@noirlab.edu>  
To: bor.testimony@hawaii.edu  

Tue, Dec 14, 2021 at 9:12 AM

Aloha,

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Paul Hirst  
Hilo
Aloha, If not for exploration the world will die. We need to support knowledge of the Universe. The TMT will bring us information that we will not be able to find without the telescope. If protesters run the show, nothing will ever progress. Please do not allow a few out of work, welfare recipients to control our future.

Maybe the Governor did not have enough intestinal fortitude to do the right thing and remove the protesters, but you have a chance to make things right, by supporting the TMT project and building a scientific future for the Hawaiian Islands.

Mahalo,

Harold Spindel
808 372 2251
I support TMT!

alexnick@hawaiiantel.net <alexnick@hawaiiantel.net>  
To: bor.testimony@hawaii.edu, "Matthew D. Murphy Murphy" <alexnick@hawaiiantel.net>  

To whom it may concern:

As a long term resident of Hawaii and a proponent of science I truly believe that "TMT" moving forward is in the best interest of the State of Hawaii and of our country. Mauna Kea is sacred and I would never go against the beliefs of our Kupuna and the rest of the indigenous people of the State of Hawaii but I do believe that a balance can be and should be reached between science and our local population. The marvels of the Universe have been discovered and who knows what else is waiting for "TMT" to discover. It would be a shame to loose this opportunity of a life time. Please lets move forward with "TMT" to allow for discoveries to be made now and for generations to come.

Respectfully,
Matthew D. Murphy
I am in support of the Thirty Meter Telescope but the Hawaiian protestors have to be dealt with. I thought you did well when you offered education and money but that seems to have been rejected. Perhaps offer to figure out how to repair the crack in Kahoolawe would be something that might get their approval. Point is you have to get their approval. You may have to hire more Hawaiian astronomers before they approve. I remember an Hawaiian astronomer who talked to my Rotary club but sadly he died. He was very good in his amazement of the universe was contagious.
Parallel Paths and the TMT Telescope
Graham DeVey, Kihei August 9, 2019

I’m hopeful we can find parallel paths to success in supporting Hawaiian culture and operating the Thirty Meter Telescope in Hawaii.

My wife and I have lived on Maui 24 years. What keeps us here is the lasting and positive influence of the Hawaiian people on us and the community. We’ve traveled widely, and there are few places in the world where an endemic culture has been so welcoming, so pertinent and important to daily life for all. It’s an ongoing blessing for all of us to learn from Hawaiians.

I was a science teacher at Baldwin High School on Maui for 17 years and taught 3000 or more students—Hawaiian, Haole, Filipino, Japanese, Portuguese, and many mixes of these. In my classroom lessons, I was very careful to share lessons in ways that were parallel to Hawaiian teachings, both in content and method. A native of Chicago, I was unqualified to teach Hawaiian culture and felt that the Hawaiian kupuna were much better for that responsibility, through their knowledge, passion, patience, mana, and ability to nurture the next generations. But I took pride in finding ways to parallel Hawaiian teaching and culture with my own science lessons. Many, many students and families have thanked me for my approach.

Before teaching, I had been a corporate engineer for 19 years, with 200 scientists and engineers reporting to me. Developing the next generations of young technical people became a calling for me and brought me to Maui. While on Maui, I’ve helped lots of youngsters gravitate toward the sciences.

Losing our local talent to the Mainland is a huge drain on our resources and a personal tragedy for me. I work with local tech businesses to help hire and train Hawaii-born workers, who know how to live and thrive here. Years ago, I attended a community hearing regarding a telescope for Haleakala on Maui. A well-meaning, silver-haired Haole woman stood and said, “Jobs jobs jobs! They are lying to us. These telescope people will bring in their own people from the Mainland and overseas, and our kids won’t get the jobs! Our Hawaii kids don’t know how to do this difficult work!” She was actually weeping. I wanted to climb over the table and smack her, wake her up. Yes, our local kids can and will do the work, and our tech companies would prefer to hire them, rather than train outsiders to work in Hawaii for 2-3 years before returning to their own homelands. We can, we will train brilliant students of Hawaii to work here, and technical people of all levels to work alongside them. This is what I devoted 17 years of my own life to support, and I am absolutely not alone.

At this point, many Hawaiians are gathered to oppose building TMT on Mauna Kea. I see many loving faces, people I know well, among the participants. Part of me rejoices to see native Hawaiians coming together, sharing their spirit, uniting as one. It is difficult to apply the Hawaiian teachings of antiquity to a confused new world. But I feel their pride, their joy, their mana in uniting behind a cause.

For me, though, this is a bitter, bitter development and my heart is bruised by the irony that a telescope is the focus of so much cultural upheaval. Perhaps University of Hawaii could have been a better steward of the mountain environment, I truly do not know. What promises were made in the past, and kept or broken, can surely be researched and discussed. From what I know, though, the TMT project has attempted to treat its mountain site with respect, and has tried to be open in negotiating, in good faith, to do what is pono.
I have taken native Hawaiian students to the top of Haleakala to use its telescopes, and these students enhanced the experience of our entire group. One Hawaiian boy, late in the evening, took off his shirt and lay on his back, surrounded by telescopes, feeling the earth beneath him through his skin and absorbing the stars above. He was connecting with many generations, and I was honored to help him find his way there.

So, here we are. We are at an absolutely unique time in terms of opportunity, to find parallel paths to help Hawaiians connect to their culture and to attract locally-grown talent towards astronomy careers in their own homeland. We must stop accepting the norm of losing our bright youngsters to Seattle, to Silicon Valley, to Wall Street, when we could be helping them use the marvelous TMT telescope to explore, and perhaps challenge or even replace our deepest and most fundamental knowledge of the cosmos, right from Hawaii. I cannot imagine a more rewarding time to work together, honoring and rescuing the past, and preparing the way for educational prosperity for generations to come.

Updated Dec 14, 2021. Graham DeVey
I support the UH draft master plan to keep astronomy alive, especially the Thirty Meter Telescope. Enough said, just do it!

Suzanne Anderson/Petersen

Sent from my iPhone
To whom it may concern,

I fully support UH’s draft Master Plan to keep astronomy on Mauna Kea alive, including the construction of the Thirty Meter Telescope (TMT). I understand UH has managed astronomy on Mauna Kea for many years, and has sought a permit for the construction of TMT. TMT could be a huge asset for Hawaii, the United States and the world. I hope TMT is built sooner rather than later.

I have been advised that the Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world. Astronomy on Mauna Kea is good for Hawaii and is part of our culture. Astronomy on Mauna Kea provides opportunities for all Hawaii residents, including our keiki, to benefit in terms of scientific education, training, inspiration and pride in the many discoveries that occur there. The presence of astronomy on Mauna Kea is important for the Big Island community and our state as a whole for many reasons, including our economic diversification and the discoveries from the world-class research conducted there. Thank you for all of your efforts.

Aloha,

James C. McWhinnie
1206 Lunaai Street
Kailua, HI 96734-4545

---

To: “bor.testimony@hawaii.edu” <bor.testimony@hawaii.edu>

Reply-To: Jim McWhinnie <jmcwhinnie@gmail.com>

Jim McWhinnie <jmcwhinnie@hawaii.rr.com> Tue, Dec 14, 2021 at 9:28 AM

To: “bor.testimony@hawaii.edu” <bor.testimony@hawaii.edu>

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Aloha,

I'm just an ordinary citizen, born and raised here, my wife's family are from the Big Island and lots and lots of blood Hawaiian relatives. I am in total support of the UH TMT program and what it means to the university, our community, and the future of space science.

I recognize the respect Native Hawaiians have and desire to declare an area sacred. My question is, How far does the area extend? They claim, The whole mountain. Is that feasible? Is that respectful of those Hawaiians and citizens of Hawaii who also respect the sacred aina but want to be able to utilize this magnificent location as one of the best and most optimal locations in the world for this type of hope? The hope that this may bring to future citizens the wonder and discovery of that great unknown, space?

It's time we move on to enhance our future with the TMT.

Thank you for your kind consideration.

Mahalo,
Paul
Aina Haina
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<td>BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands --&gt; E Ō I NĀ Leo (Listen to the Voices)</td>
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### Your Testimony/Comments

As an olapa hula practitioner who has lived in Hawaii for more than half my life, I support the draft UH Maunakea management plan and construction of the TMT. I believe this is consistent with the ancestors, whose very history is one of discovery and exploration and whose reverence for Maunakea did not preclude use of the mountain's resources (as evidenced by the adze quarry there).

I remember the days before UH management, and it angers me that opponents cite problems from that era, since corrected, along with misinformation in an attempt to sway public opinion against astronomical research. I have watched with sadness attacks on Native Hawaiians who thoughtfully express support for the project, creating an atmosphere of intimidation that prevents many who are not opposed from speaking out.
Please imua - move forward with the management plan and astronomical research on Maunakea.

Your Testimony (pdf or word)

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Actions

- Close
- Export
My testimony in STRONG support of the TMT!!!!

Nancy Taylor <taylorn005@gmail.com>  
To: bor.testimony@hawaii.edu  

Tue, Dec 14, 2021 at 10:05 AM

I STRONGLY SUPPORT TMT for our State, for scientists worldwide but mostly for the people of Hawaii and the amazing opportunities that this project can offer. The possibilities that might unfold from this project are limitless. The prestige it will bring is massive and the highly skilled jobs, though limited in number, will be important in maintaining a level of excellence at UH. This, I am VERY hopeful that, at last, this incredible project can begin and that it will bring a greater spotlight on the excellence at UH and offer the opportunity for extensive exploration and discovery in the decades ahead.

Thank you for consideration of my strong support for this amazing project. What a dream!! Please enable that dream to become a reality!!!!!

Nancy Taylor
Support of UH's Master Plan for TMT & Mauna Kea

Lucia Kaplan <luciakaplan@me.com>  
To: bor.testimony@hawaii.edu  
Tue, Dec 14, 2021 at 11:03 AM

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). We are so fortunate that the Island of Hawaii is the best place in the world to observe & study our Universe. I am in awe of the great scientists to study our cosmos & make important discoveries of our small planet fits into the larger expanse of outer space. I believe there is more than enough room for all to utilize the gifts of Mauna Kea. We must continue to move forward with plans to build TMT. It is time to build TMT now!

Mahalo,

Lucia Kaplan  
luciakaplan@me.com
Richard Morris <benefitcap@gmail.com>  
To: bor.testimony@hawaii.edu  

Tue, Dec 14, 2021 at 11:23 AM

please do not let this project sink as the superferry did!!!!!!!!!!!!

mahalo, dick
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Your Name (required) *
Rita Salvanera

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
rsalvanera1@hotmail.com

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BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)

Your Position (required) *
Support

Your Testimony/Comments

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific
discovery that takes place in our home. This project gives our keiki a great opportunity to pursue a career in an important field while allowing them the ability to stay close to their family in the islands to work. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

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Your Name (required) *
Paula Frances Gillingham Bender

Your Organization (optional)
choose title

Your e-mail address (in case we need to reach you) *
pbender@hawaii.edu

Board of Regents Agenda Item (required) *
BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)

Your Position (required) *
Support

Your Testimony/Comments

From thousands of years ago, the stars have guided all of Polynesia. Let us continue to grow our search into space to support Earth, train its people's to sail beyond what we know, and to never deny the pursuit of knowledge. If we say yes to denying our future, we tell each other that there is no point to wonder.

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**Your Testimony/Comments**

As an engineer at a local technology company, I strongly support UH and the TMT. The new telescope will bring knowledge to the planet, jobs and money to the Big Island, and continue the excellent management that UH has provided for Mauna Kea.
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pacific island people (outstanding navigational skills). Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

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### Your Testimony/Comments

As the Polynesians of old observed, studied, studied, and understood the movement of the stars in time, to explore, navigate, discover, inhabit and populate remote islands throughout the vast Pacific, the planning, investment, and development of astronomy, astrophysics, astro-mathematics, astro-technology on Mauna Kea under the management and guidance of the UH Mauna Kea Master Plan, will advance and expand in humanity’s knowledge and understanding of the principles and forces that operate in the infinite cosmos, allowing humanity to navigate, discover, explore the Universe in Time and Space.
**Public Testimony Form - University of Hawaii Board of Regents**

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<td>I fully support the UH Draft Master Plan because it keeps astronomy on Maunakea and TMT. UH has done an excellent job managing the Maunakea Science Reserve and surrounding areas. From managing the road, to getting rid of invasive species, care for the Wolf Spider and the Weiku Bug, the historic properties, the Nene Goose and all the flora such as the Aweoveo, the area continues to flourish. They did a thorough job with obtaining the construction permit for the Thirty Meter Telescope, meeting each requirement that seeks to protect the environment. I support the UH’s endeavor to renew Master Lease for the astronomy precinct so that Hawaii can continue to lead in this field of science. I hope my alma mater does everything possible to see that TMT is built on Maunakea and astronomy continues in Hawaii.</td>
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I know the anti TMT people would like to see an end to astronomy in Hawaii, but every institution of higher learning has an astronomy and physics department. For the last 50 years the observatories in Hawaii have contributed to knowledge for all humanity, from the Cosmic Microwave Background, to mapping out our galaxy Laniakea, to discovering Powehi. We cannot step backwards, we must move forward as our ancestors did on those long oceanic voyages. It is because we are Hawaiian, descended from master naked eye astronomers that we must continue to study the heavens and understand our place in the universe.
In support of Mauna Kea Observatories and TMT

Peter Fuleky <fuleky@hawaii.edu>  
To: bor.testimony@hawaii.edu  
Tue, Dec 14, 2021 at 11:54 AM

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

---

Peter Fuleky  
Associate Professor  
UHERO and Department of Economics  
University of Hawaii at Manoa  
Saunders Hall 508  
2424 Maile Way, Honolulu, HI 96822  
Tel: (808) 956-7840  
Web: www2.hawaii.edu/~fuleky/
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

I am sure you will see many direct copies of the above message. I have carefully read it to be sure I support the points that it lists. I add that under the UH the Mauna Kea astronomy complex is the best managed in the world. This is partially shown by the many amazing discoveries that have come from Mauna Kea. I know that the UH's draft Master Plan represents many hours of careful study and decisions and I completely support it.

Please continue the great and valuable work.

Alan Mefford
Aloha, Just a note to voice my family's support for the Thirty Meter Telescope (TMT).

Richard & Kanison Bowers
Hawi Hawaii Island
Aloha University of Hawaii Regents,

Please accept my attached letter in support of the Proposed Maunakea Master Plan.

Mahalo,

Nancy Sakamoto | General Manager

Kona Commons

74-5444 Makala Blvd. | Kailua-Kona, Hawaii 96740
Direct: (808) 334-0005 | Cell: (808)896-5308
nsakamoto@mmirealty.com | www.mmirealty.com
December 14, 2021

UH Hilo Center for Maunakea Stewardship's Proposed Maunakea Master Plan – Support for UH Board of Regents Approval

UH Board of Regents Special Board Meeting
Thursday, December 16
via virtual meeting

Aloha University of Hawaii Regents,

I am Nancy Sakamoto, submitting supportive testimony for the approval of the Proposed Maunakea Master Plan in my capacity as an active community member, and as a tutu for my grandchildren who offer much promise as the next generation of Native Hawaiian leaders.

I have been actively involved in the Kona Kohala Chamber of Commerce, the Kailua Village Business Improvement District as an advocate for stewardship of our valuable resources here on Hawaii Island.

I’ve kept up to date on the stewardship of Maunakea, through presentations and engagement. The Center for Maunakea Stewardship, formally known as Office of Maunakea Management, has been successfully managing its lands on the mountain, implementing state policy on astronomy since 2000. Let’s remember that nearly sixty years ago, it was the State of Hawaii who wanted to develop astronomy in Hawaii. Looking towards the future, I would ask all of us to take pride in this accomplishment.

This new draft management plan takes us forward into the next few decades, ensuring good, sound management of the unique resources found on Maunakea. The balance struck in the master plan limits development that protects the resources while ensuring world class astronomy continues in Hawaii, providing inspiration for our island students. How fortunate we really are.

I support the draft and I ask you to as well.

Mahalo for allowing this opportunity to share my comments.

[Signature]

Nancy Sakamoto
I support Astronomy on Mauna Kea

Ken D <kenya1953@hotmail.com>  
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>  
Tue, Dec 14, 2021 at 1:12 PM

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Ken Deehr  
Hawaiian Paradise Park  
Keaau, HI
RE: UH’s Master Plan

I am writing in full support of UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT).

The way to the future is guided by roads from the past: knowledge of the stars - astronomy - is what brought our forebears to these islands.

We honor the accomplishments of those who came before by continuing to advance the study of the stars for all the world’s peoples. And at the same time enhancing our local and state economy and providing opportunities for our keiki.

Keep up the good work - I mua TMT!

Mahalo and aloha,

Ali Bairos
Aloha:

I am a resident of Kailua-Kona and would like my voice to be heard. Mauna Kea is a resource for ALL of the Big Island residents and scientists visiting the telescopes. Mauna Kea is one of the best locations for stellar and interstellar research to be done. The benefit of the TMT to the entire island is something all people on the island should approve.

Hawaiians, when the took off from their island in the South Pacific, were navigators, able to cross unfathomable ocean to "find" our beautiful islands. They were star navigators of the highest rank and should be applauded by all astronomers and navigators even today. The TMT consortium was willing to provide money to the island schools for STEM subjects which as we know, can lead to highly paid positions after college. But if we wish to keep our people on the island, they NEED jobs hiring in those fields. I want our gifted children and young adults to see what can happen by seeing highly successful people living among them, hearing their stories, and believing that they, too, can succeed. That can only happen if the money is pumped into our schools, and TMT is a willing partner in this endeavor.

UH has mismanaged the mountain for a long time but it can and must involve more than a few people. Please plan on doing what's right for the mountain and for the Big Island. Hold meetings here on our island, not on Oahu. Come here to our island and hold meetings around the island so regular people have a say. Regular people have good ideas and you must hear them personally.

Mahalo for your time,

Greg Olsen
Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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Your Testimony (pdf or word)

[masterplan_comments_tc.pdf (103.9 kB)](masterplan_comments_tc.pdf)
I have reviewed the Maunakea UH Master Plan – E O I Na Leo. This is a thoughtful document, and I strongly believe that the Boards should approve the Master Plan, pending modifications/clarifications.

I also agree with the Task Force’s other conclusions, including that it should engage in sustained outreach efforts and that it should continue to manage the MKSR – either solely or as a major partner in a reorganized management structure -- and support world-class astronomy.

I have the following additional comments on UH’s past management and on the Master Plan itself, requesting some minor modifications.

Master Plan comments:

- In agreement with the National Science Foundation’s comments, my main criticism is that the Native Hawaiian community needs to have a clear voice in the management of Maunakea if for no other reason than UH’s management area includes at least some land – Lake Waiau, Pu’u Poliahu, etc. – upon which Hawaiian traditional and customary practices unquestionably occur. The existence of Kahu Ku Mauna, cultural training, and a promise of deeper engagement is most welcome. But I believe the Master Plan would be substantially improved with a discussion of how to not just consult the Hawaiian community but involve said community in the governance of Maunakea itself.

- Likewise, I agree with NSF that describing how new guidelines on observatories lessen environmental or cultural resource impacts.

As one specific example, in multiple places the document describes how facilities must convert to a zero-discharge waste system by 2033. A reader is not given the motivation for this rule. One could infer that UH is somehow conceding that the current waste disposal systems pose a threat to the island’s water, an often-repeated bit of pseudoscience from the TMT contested case hearing. Instead, moving to a zero-discharge system is an action that lessens cultural impacts as many practitioners believe that the deposit of waste into summit grounds is culturally inappropriate.

- Re: the UH commitments on decommissioning (Sect 4.1.2). First, it should be clearly acknowledged that the multi-observatory decommissioning steps are spurred by TMT’s CDUP. I.e. TMT in exchange for multiple older telescopes. This is alluded to in Sect 4.3.2.1 but should be clearly spelled out. Furthermore, Appendix E describes that UH will receive input from other organizations – including Hawaiian organizations – on which additional telescopes would be decommissioned by 2033. I think it would be more appropriate for Hawaiian organizations to have a vote in this process, not merely be consulted. This suggestion goes back to the first comment: that the Native Hawaiian community should have a clear voice in the management of Maunakea.
UH’s past management:

- I very strongly believe that the University of Hawai‘i has done an exceptional job managing and protecting resources on Maunakea for at least the past decade. As the Independent Auditor’s Report acknowledges, “the cultural and natural resources on the state conservation lands on Mauna Kea are some of the best managed and protected lands in the entire State. The area is clear of trash, the invasive species are being removed not only by OMKM but volunteer groups, and the OMKM Rangers to ensure public safety on Mauna Kea.”

- The inventory of cultural/historical sites is exhaustive and well documented. In my years on Mauna Kea, I have seen cultural practitioners free to engage in their activities without harassment but with respect from UH. The cultural orientation program required for all Mauna Kea astronomy personnel is well presented.

- As evidenced during TMT’s most recent Contested Case Hearing, UH has done an exceptionally thorough job in documenting and protecting Mauna Kea’s natural resources. Arthropod surveys are well thought out and detailed. The weiku bug population has recovered. Documentation and surveys of plant species is also well thought out.

As I said in the auditor’s report, UH’s stewardship of the land is a stark contrast to the poor stewardship that some TMT protesters have on the Pu‘u Huluhulu encampment. UH’s commitment to laws and regulations is a stark contrast to lackadaisical attitude from state and county law enforcement. Furthermore, mistakes that are often attributed to UH instead lie at the feet of the state itself. For example, it was the state that has allowed protesters to damage planets and scatter plants at the MK Access Road. It was the state that refused to prosecute Palikapu Dedman’s disinterment of remains and placement of bones on the TMT site in an act of protest and against state law.

My Background:

- I have gone to Mauna Kea for the past 14 years for astronomical observations and thus have seen the state of the mountain prior to the completion of the CMP, during the early years of its implementation, and up to recent times.

- I have not shied away from pointed and public criticism of UH or the Institute for Astronomy in other contexts. For example, as an interviewee for EnVision Mauna Kea I expressed extreme frustration and anger at IfA for "a lack of courage" in direct and frank discussions with some TMT opposition leaders in order to have a future where the telescope is built on Mauna Kea in the most peaceful way possible. While I am strongly encouraged by the new leadership at IfA, I remain extremely concerned about the lack of engagement by IfA faculty in general.
Public Testimony Form - University of Hawaii Board of Regents

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The way to the future is guided by roads from the past: knowledge of the stars - astronomy - is what brought our forebears to these islands.

We honor the accomplishments of those who came before by continuing to advance the study of the stars for all the world’s peoples. And at the same time enhancing our local and state economy and providing opportunities for our keiki.

Keep up the good work - I mua TMT!

Mahalo and aloha,

Ali Bairos
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<td>I support the proposed Master Plan; however, I disagree with the University's futile effort to appease the opposition by sacrificing scientific and educational opportunities.</td>
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Please support the TMT; we need to continue looking outward.

mahalo,
glee stornont
Time to continue the voyage into the unknown the Hawaiians began centuries ago. Ancestors sailing across and unknown, open ocean in search of knowledge were the true pioneers of life. Instead of hiding behind imaginary fears, these brave warriors faced uncertainty and the unknown to seek knowledge, happiness and new adventure. Open your minds and hearts to the unknown as the ancestors did when they began to travel to unknown worlds.

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a much better job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. It was the stars that led the ancestors to these beautiful shores full of opportunity. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!
Dear Regents,

I write to you to express my support for the Plan.
I have followed the process for the several years you have published information on your plans and the pros and cons expressed by the community.

I confess that I am not as familiar with the objections to the project from the Hawaiian community or the proposals UH has made to rectify their concerns regarding stewardship. My concern stems from the potential of further developing a viable world class astronomy program directly beneficial to the University and the state with major world wide implications for other countries who participate in this type of research and development.

I find it difficult to imagine sacrificing such an opportunity for the near and far future. It is heartbreaking to give up this dream. Surely a compromise can be reached with those who object so we can assure our children and grandchildren a chance to be part of this monumental endeavor.

It is part of the spirituality my family feels for the precious mountain and the many questions we hope it will answer about our universe. Are we alone? What wonders are yet to be discovered about our home planet, solar system and galaxy. Can we protect ourselves from an interstellar collision? And many others.

I get chicken skin when I think of the wonders of such a program and what it could offer.

I trust you will find the path through the star lit skies just as the sailors across the Pacific did in their voyages of discovery. There is so much at stake in this treasure hunt for us all.

Thank you for your consideration of my testimony.

Marilyn Seely
Kaneohe Hawaii.
Sent from my iPhone
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work.

Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!
To Whom It May Concern,

I support UH's draft Master Plan because it supports astronomy and the Thirty Meter Telescope. UH astronomy is on the cutting edge of science and we need to keep it there.

Gary Kato
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

Sincerely,

T. Yun
I have lived in Hawaii for over 26 years. I have worked as a lawyer in Hawaii for the entire time and have a small law firm in Kona. I have one daughter who was born and raised on the Big Island and is now on the mainland and applying for graduate school in the medical field. I strongly support astronomy and been fascinated with the study since childhood.

I STRONGLY SUPPORT THE UH MASTER PLAN REGARDING MAUNA KEA AND CONTINUING WITH THE TMT. I personally think that the objectors have latched onto what they see as an anti-ha’ole cause and haven’t considered the real essence of what they are protesting. Ancient Hawaiians were fascinated by the stars and even found their way from Tahiti to Hawaii through astronomy. I am humbled to live on the Big Island with a mountain so able to launch exploration and assist with research into life itself. I am also very much in support of education and exploring areas of wonder. The protestors’ children will also greatly benefit from having a resource of this caliber right here at home. I believe the mountain is proud to be contributing to such lofty efforts.

I don’t have time to camp out Mauna Kea for months as a sign of opposition, as I’m very busy helping many people with very difficult legal problems. I question if the protestors have done much to help others on this island as they have a lot of free time to spend complaining and away from any home or work life.

Respectfully submitted, Kimberly A. Jackson, Esq.
Aloha,

I write to offer my support for the new Master Plan so that the Thirty Meter Telescope can be constructed without any further delays.

Regards,

Chris Tipton
Aloha,

Thank you for the opportunity to voice our organization’s support for the Proposed Master Plan for the UH Maunakea Lands. Our testimony is attached.

Sincerely,

Miles Yoshioka
Executive Officer
Hawai‘i Island Chamber of Commerce
1321 Kīno‘ole Street
Hilo, HI 96720
Phone: 808-935-7178
miles.yoshioka@hicc.biz
www.hicc.biz
https://www.facebook.com/HawaiiIslandChamberofCommerce

Hawaii Island Chamber_BOR testimony 12142021.pdf
134K
December 14, 2021

TO: University of Hawai‘i Board of Regents

FROM: Miles Yoshioka, Executive Officer
Hawai‘i Island Chamber of Commerce

SUBJECT: Support for Proposed Master Plan for the UH Maunakea Lands

Aloha Chair Moore and all distinguished Regents,

The Hawai‘i Island Chamber of Commerce, formed in 1898 by the business community of the Island of Hawaii, has continued to be a dedicated supporter of scientific and, in particular, the astronomical enterprises on Maunakea.

In 1963, the Executive Secretary of this Chamber, Mr. Mitsuo “Mits” Akiyama began his quest to rebuild the economy of Hawaii Island, then devastated by the 1960 tsunami that hit Hilo Bay, much as how the COVID-19 pandemic is affecting Hawai‘i Island’s economy today. Through the efforts of Mr. Akiyama, Mauna Loa astrophysicist Howard Ellis and astronomer Dr. Gerard Kuiper, the first telescope was placed on the mountain a few years later for site testing, a precursor to the world-class astronomical center it is today.

Our chamber continues to stand with Hawaii’s business community in support of astronomy, science, culture and environmental stewardship. The economic benefits of this industry are significant. There are hundreds of local residents currently working in the industry earning good wages and supporting their families and community.

Initially through the Office of Maunakea Management and now, through the Center for Maunakea Stewardship, UH has dedicated its management efforts to the protection of the natural and cultural resources while ensuring the UH managed lands on the mountain allow for world-class astronomy. A point we should all be proud of.

HICC members have actively participated in every management plan process, invasive weed pulls and one of our members was awarded for her efforts in partnering with CMS for environmental stewardship. We are working together in our community to ensure best management practices continue for Maunakea.

The University of Hawaii has sought to balance multiple community interests when it comes to Maunakea. The balance struck in the Master Plan limits
telescope development and protects natural and cultural resources, all while ensuring a world class astronomy program for Hawaii continues.

We stand in support of the Master Plan. We call on you to support the Master Plan as well and continue stewardship efforts to malama Maunakea.

Thank you for your time.
To whom it may concern,

I support the University of Hawaii (UH) draft Master Plan because it encompasses astronomy on Mauna Kea including the Thirty Meter Telescope (TMT). I also have confidence in UH continuing to manage Mauna Kea after over 20 years of active involvement. UH has received a legal permit for the construction of TMT, a major Multi National Collaboration that will produce significant data and knowledge on our understanding of the Universe and science. Our existing telescopes have been a major attraction for visitors around the world and TMT will further serve to establish Mauna Kea and Hawaii as a world class location for astronomy in one of the best locations in the world to explore the night Sky. TMT will also attract scientists and technicians creating more jobs in Hawaii not only for TMT but also the support companies needed for this major undertaking. Thirty years ago Hawaii was concerned that its main industry was tourism and the construction of telescopes was a way to attract higher technology positions to the islands, TMT can serve the same purpose and attract firms to establish design, R&D, software and robotics centers and diversify the employment base within Hawaii.

The Hawaiian ancestors arrived here after traveling vast distances in voyaging canoes and navigating at night using only the stars to guide them. Amazing act of skill and seamanship and I think that they would be extremely proud to know that Mauna Kea is now the premiere site for astronomy and expanding knowledge that dates back some 1500 years.

With respect

Clive B Davies PhD
Support for UH's Master Plan.

Art McDonald <art@snolab.ca>  Tue, Dec 14, 2021 at 4:54 PM
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>
Cc: Art McDonald <art@snolab.ca>

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is your culture. Astronomy on Mauna Kea provides opportunities for your keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and your state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

Sincerely

Art McDonald

2015 Nobel Physics Laureate

Art McDonald
Gordon and Patricia Gray Chair in Particle Astrophysics, Emeritus, Nobel Physics Laureate 2015

Department of Physics, Engineering Physics and Astronomy
Queen's University
Kingston, Ontario, Canada K7L 3N6
Ph: 613 533 2702 Cell: 613 5411405 Fax: 613 5336813
Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, providing research and employment opportunities to residents of Hawaii.

The summits were never “sacred land” and access for any religious purposes would not be restricted by the telescope project.

Please do everything in your power to complete the TMT as soon as possible.

Thank you,
Gail Wong
Hawaii Resident
Sent from my iPhone
Support for Renewal of UH Master Lease for Mauna Kea

Victoria Missien <missienv001@hawaii.rr.com>  
To: bor.testimony@hawaii.edu  
Tue, Dec 14, 2021 at 5:23 PM

Our family fully supports the University of Hawai‘i continuing their oversight and management of Mauna Kea, and support their draft Master Plan towards renewal of their Master Lease. Divisive as this issue has become there is no denying the historic, indigenous importance of continually seeking enrichment through the study and knowledge of our night skies. The informed curiosity which led the ancestors to the islands of Hawai‘i is the gift and endowed responsibility for us now: to seek, learn, caretake and share.

There have been assertions that past management of Mauna Kea was less than it should have been, and that any past shortcomings should deny UH continued stewardship, and furthermore deny all astronomical studies at the summit. Whether this accusation is fair or strategic, humanity can and does learn from experience, including gained knowledge of better practices. It would be a sad disservice to determine there is no place for scientific study on Mauna Kea, and that it be strictly a spiritual temple. Mauna Kea has been, can, and should be both, and so much more. The potential to collaborate on a richly rewarding future for education, enrichment, honoring traditions, inspiring our keiki, and yes increased economic diversity is there. It is all possible.

Civility, respect, patience, listening, compromise, and inclusion is needed from all. Imua the responsible collaboration for astronomy on Mauna Kea; imua TMT.
Support for UH TMT Astronomy

Gene <groundsg001@hawaii.rr.com>  
To: bor.testimony@hawaii.edu

Aloha  
Support the UH TMT activities on Mauna Kea. I believe it is a tribute to our Hawaiian culture as well as furthering our knowledge and understanding of the universe.  
Mahalo I am practically a life-long resident of Hawaii, a pioneer of solar energy usage and a long time farmer and rancher. I love the aina.  
Gene Grounds
To whom it may concern,

My name is Eric Takasugi, a resident of the Big Island and I strongly support the Thirty Meter Telescope (TMT).

I also support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including TMT. I believe that UH has done a great job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. TMT has also shown their commitment not only to science and astronomy, but also to the community through their numerous contributions to education and job opportunities for people on the island.

Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. Imua Kilo Hōkū and imua TMT!

Thank you for your time.

Sincerely,
Eric Takasugi
高杉勇人
December 16, 2021 BOR meeting - Testimony from the Kona-Kohala Chamber of Commerce

Wendy Laros <wendy@kona-kohala.com>  
To: bor.testimony@hawaii.edu

December 14, 2021

RE: December 10, 2021 Proposed Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Nā Leo.

To the University of Hawai‘i Board of Regents,

The Kona-Kohala Chamber of Commerce brings together the business community as a strong, united voice to address key issues in our community, on our island and in our state. Founded in 1968, our 430 member businesses and organizations represent a wide range of industries such as agriculture, aquaculture, astronomy, banking, construction, education, finance, food service, healthcare, media, non-profits, retail, real estate, tourism, technology, transportation and more. We exist to provide leadership and advocacy for a successful business environment in West Hawai‘i. Our goal is to enhance the quality of life for our community through a strong, sustainable economy on Hawai‘i Island.

We support the proposed Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Nā Leo. We believe in the UH’s mission and purpose to “Sustainably steward Maunakea for the benefit of our communities, Hawai‘i, and the world, as a publicly-accessible learning landscape where all who visit learn, and those who seek something more discover through rich multi-cultural experiences and multi-disciplinary discourse. Provide equal opportunities across the schools of the UH system and community partners to engage with the mauna in ways that perpetuate and advance knowledge, wisdom and values while fostering mutual understanding and respect.”

UH acknowledges this special place is a destination for residents and visitors seeking cultural, educational, recreational, and exploration experiences. With entities in place such as the Center for Maunakea Stewardship, ‘Imiloa Astronomy Center and the Institute for Astronomy, the University of Hawai‘i has broad resources, vast knowledge and a steadfast commitment to provide the best possible stewardship under very complex circumstances.

We strongly support UH management and state lease renewal on Maunakea. The University of Hawai‘i is by far the best option for a management structure on Maunakea and the lease renewal of 2033 is an urgent matter. The University has taken significant steps to address issues and improve management. We applaud the depth, scope and considerations embedded in the Master Plan pertaining to land use and facilities along with the Comprehensive Management Plan that fully outlines related activities and resources.

The Kona-Kohala Chamber of Commerce strongly supports the astronomy industry on Maunakea noting significant scientific discovery, global leadership, educational outreach, workforce pipelines, jobs and economic impact. Hawai‘i has worked diligently to diversify its economic sectors and attract high tech industry to create more opportunities. Hawai‘i’s astronomy sector provides needed economic diversity with a statewide impact of $167 million. Astronomy activities generate over $52 million in earnings, over $8 million in state taxes and 1,400 jobs statewide. We are very grateful to the UH Institute for Astronomy and Maunakea’s astronomy industry for well-developed, impactful programs that better prepare Hawai‘i students to become the workforce for higher paying science and technology jobs in Hawai‘i’s 21st century economy.
We support culture, science and environmental stewardship on Maunakea. We understand and respect the cultural values associated with Maunakea and believe science and culture can and will harmoniously exist in this special place. In 2017, we recognized the University’s commitment to culture on Maunakea when the Office of Mauna Kea Management, now Center for Maunakea Stewardship, was the recipient of the Kona-Kohala Chamber of Commerce Pualu Award for Culture and Heritage. The Chamber’s Pualu Awards recognize businesses, organizations or individuals that work together for the betterment of Hawai‘i Island. The meaning of pualu translates to “all together, in unison, and cooperative.” (Pukui & Elbert, 1986).

We support expanded educational activity and construction of a new UH observatory at the Halepōhaku Mid-Level Facility to continue the important work of teaching, training and conducting research. As mentioned in the plan’s opening message, “Efforts already underway to elevate culture and education as key priorities alongside astronomy and land stewardship have begun with the assignment of responsibility to the ‘Imiloa Astronomy Center of Hawai‘i. ‘Imiloa is developing additional necessary and appropriate educational programming for those who work on and visit Maunakea and improving the interpretive experience at the Maunakea Visitor Information Station at Halepōhaku.” In Part 2, Section 3 of the Master Plan, it states, “The facilities at Halepōhaku are essential to UH’s ongoing astronomy program and management.” In the UH Commitment Regarding Use of Halepōhaku, it states, “The only astronomy facility that will be proposed at Halepōhaku is the UH Hilo educational telescope.”

Lastly, the Kona-Kohala Chamber of Commerce strongly supports the development and future operations of the Thirty Meter Telescope (TMT). Although this Master Plan does not specifically address TMT, we must voice our support for this permitted project. Since 2009, TMT has contributed millions of dollars to educational initiatives for Hawai‘i Island students that include The Hawai‘i Island New Knowledge (THINK) Fund, Workforce Pipeline and Akamai Internship Program. Additionally, TMT will provide 300 local and specialized construction jobs during the construction phase, and once the telescope is complete, employ 140 staff. TMT’s commitment is to fill these positions with as many Hawai‘i residents as possible and use local businesses for support services. We must acknowledge the positive contributions of TMT for our island community.

We appreciate the opportunity to voice our support for the UH Master Plan for the Maunakea Lands, E Ō I Nā Leo.

Sincerely,

Wendy J. Laros, President & CEO

Kona-Kohala Chamber of Commerce
75-5737 Kuakini Hwy, Ste. 208
Kailua-Kona, HI 96740
(808) 329-1758
wendy@kona-kohala.com
December 14, 2021

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We appreciate the opportunity to voice our support for the UH Master Plan for the Maunakea Lands, E Ō I Nā Leo.

Sincerely,

Wendy J. Laros, President and CEO
Kona-Kohala Chamber of Commerce
I support UH master plan on Maunakea and TMT.

Sent from my iPhone
I spent twenty seven years as a Professor of Animal Science in the College of Tropical Agriculture and a joint Faculty in the Dept of Physiology in the John Burns Medical School. I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Dr. Charles W. Weems

Emeritus Professor of Animal Science

College of Tropical Agriculture
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Peggy Regentine
WCC & LCC Faculty-retired

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Peggy Regentine
TMT is true science. Watching Hawaii’s economy tank over the past year and a half, we definitely need to get a positive contribution not only to our economy but to our environment, to our children’s education and to our culture. TMT provides all of this and more. Keep TMT!
Meryl Abrams
Aloha,

I wanted to share with you my support for the TMT project. I feel TMT would benefit the state of Hawaii for the following reasons:

1. Research for the benefit of many – not just the scientific community at large, but also for aspiring scientists here in Hawaii. I envision high school and college students serving in some sort of internship program that would benefit their learning.

2. Aspiring our youth – we already see a “brain drain” of our youth to the mainland due to a lack of technology jobs. Why not give them an opportunity to stay in Hawaii?

3. Providing much needed jobs – as a former resident of Hilo, I understand jobs that pay well are hard to come by. The TMT would provide construction jobs, support staff and secondary jobs once the TMT is complete.

4. Funding for the UH – I’m not a finance person, but I’m sure the TMT would be able to generate funding for the UH through various grants.

Mahalo for listening to my thoughts,

Kevin Ancog

(808)457-2546

Jan1192@aol.com

Sent from Mail for Windows
To BOR:

We need UH's new Master Plan in place in order to renew UH's Master Lease for Mauna Kea and keep the astronomy industry, including TMT, in Hawaii! This is an important, clean industry for Hawaii. This will advance knowledge for all people of the world. The master plan is well thought out and shows a sense of honor and responsibility.

Aloha, Ruth Robison

Sent from my iPhone
Ruth Robison, Ph D
International Student Advisor
University of Hawai'i at Hilo
Retired
UH master plan

yvonne.yvnn@gmail.com <yvonne.yvnn@gmail.com>  Tue, Dec 14, 2021 at 11:53 PM
To: bor.testimony@hawaii.edu

As a resident of Hawaii for the last 40 years I have been pleased with the UH master plan and the emergence of Mauna Kea as the premier site for astronomy in the world. I would like to see UH maintain this position and not be bullied by an extremely small but loud minority determined to remove UH and astronomy from Mauna Kea under the guise of “religion”, which was not practiced until a road to the summit was built for observatories. Hawaii can lead the world in precious little, but I would much rather it lead the world in astronomy than homelessness.
Gregory B. Wilson, M.D.

Sent from my iPhone
Support of UH's Master Plan,

Jean-Pierre MAILLARD <jean-pierre.maillard@iap.fr>  
To: bor.testimony@hawaii.edu  

Aloha to all,

As a French astronomer who lived with all his family for several years in Waima (Big Island), who made the main part of his scientific carrier on the top of Mauna Kea, thanks to the Canada-France-Telescope and also from many collaborations with UKIRT, Keck telescopes, JCMT, Gemini North, I fully support the completion of the UH Master plan. It will continue what was just at the beginning in 1980, the year I arrived in Hawaii which has since, given so many results. And TMT is just in the line of the developments of this exceptional site, with first the generation of the 3 - 4 meters telescopes, then the 8 to 10 meters and now a 30 meters.

For sure, the presence of astronomy on Mauna Kea is vital for the Hawaiian people but also for the worldwide scientific community. So, please don't let a stupid nationalism and a poor populism take the lead. I want to trust your understanding of your true interest, your open mind for a bright future of the science from Mauna Kea.

Mele kalikimaka

Jean-Pierre Maillard

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***************************************************************************
*                Dr Jean-Pierre Maillard              *
* Institut d'Astrophysique de Paris (CNRS, UPMC)*
* 98bis Boulevard Arago, 75014 PARIS - FRANCE    *
***************************************************************************
* bureau : 48A (rdc)                               *
* tel : 33(0) 14432 8139 mob: 33(0) 66040 6126    *
* courriel : jean-pierre.maillard@iap.fr           *
***************************************************************************
Testimony in favor of approving Mauna Kea Master Plan

rterry@hawaii.rr.com <rterry@hawaii.rr.com>  
To: bor.testimony@hawaii.edu  
Wed, Dec 15, 2021 at 7:13 AM

Dear Regents:

This communication is to express my support for your approval of the revised Mauna Kea Master Plan. I was a member of the Mauna Kea Management Board from 2004 to 2012, when the original Master Plan was developed and approved. My paramount concern has always been the well-being of the natural resources on Maunakea. On the MKMB, we organized a team of people – observatory supporters, objectors, and agnostics alike – to prepare the Natural Resource Management Plan (NRMP) component. My comments concentrate on that aspect of the Plan, as there are many others who are more qualified to discuss other aspects such as the interface with Native Hawaiian cultural practitioners, tourism, etc.

The NRMP was recognized as one of the best plans for management of State lands and has served as model for other areas. Our component plan called first for the protection of rare species and habitats, second for dealing with invasive species, and third with research on the biology of the mauna, which was still not fully documented. A series of goals and objectives and actions were developed to get to work on this. Not only was the plan visionary, it was effective. Under the guidance of the Master Plan and OMKM, all these objectives were pursued with a remarkable degree of success, considering we are talking about the government after all! We now have a much greater understanding of the ecology of the wekiu bug, we have a full flora of the summit area, and we know much more about the permafrost and subsurface hydrology.

I think natural resource management of Maunakea has gotten an unfairly bad rap. There was bad management at one time – I was a protestor myself in the 1990s after construction of one of the observatories left a giant trash pile that blew in the wild summit winds halfway to Hilo. We came up in a pickup truck and retrieved what we could, cursing the University of Hawaii for their malfeasance. But in 2000, when a new management structure emerged, and Barry Taniguchi helped provide the community leadership the mauna really needed, things turned around dramatically for the better. Development of the Master Plan – as contentious as that was – helped solidify that. It is a challenge to manage the multiple permitted uses on the mountain – but we should not just tear down the observatories and kick out the curious tourists and local snowplayers in their lifted trucks. We need some balance. Despite a plethora of fake news, the mauna can be managed with current uses and minimal impacts. Astronomy has been and can be even a greater source of funding for critical management. The new Master Plan redoubles the focuses on working with the Native Hawaiian community to celebrate the mauna and reduce adverse effects. The Center for Maunakea Stewardship has been a very positive addition and has helped outreach into the community in a deeper way than ever before. I urge you to take steps to approve the pre-final Master Plan so that we can continue to take care of the natural and cultural resources and truly malama Maunakea for the greater good of our citizens.

Ron Terry
Integrating Geographic Science and Planning

(808) 969-7090

10 Hina Street

Hilo HI 96720

Visit us at geometricianassociates.com
We support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and we wholeheartedly support its completion. We hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and we are proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Thomas Pinkert
Susan M Schneider
68-3755 Piki Place
Waikoloa, Hawaii 96738
808-883-3998
Support for master plan

Lois Magnussen <magnusse@hawaii.edu>  
To: bor.testimony@hawaii.edu  

Wed, Dec 15, 2021 at 7:34 AM

I have been dismayed by people disobeying the law and impeding the progress of astronomy on Maunakea. Please provide timely support to the new master plan so astronomy can continue.

LoisMagnussen
I support TMT

Roy Massey <royrm56@yahoo.com>  
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>  
Wed, Dec 15, 2021 at 7:49 AM

I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

It's good for the community, the Island and the world! Please help us move this forward to improve the sciences!!

MAHALO!

Roy Massey
Hilo, HI
Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Ann Lum

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
anllum967@gmail.com

Board of Regents Agenda Item (required) *
BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)

Your Position (required) *
Support

Your Testimony/Comments

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides...
opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

The future of high tech in our state is linked to the success of astronomy on our mountains, especially telescopes on Maunakea. High Tech is our state's hope for future diversification. We don't have much else - do we really want more tourism? Maunakea is unique on this earth, and the excellent conditions for astronomical research are also unique to Maunakea. We must maintain this opening to the universe. Polynesians in the distant past used the science of astronomy to navigate the whole Pacific; we can continue to use this scientific gift to navigate our world now and for future generations.

Mahalo,
Ann Lum

Your Testimony (pdf or word)

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Actions

Close

Export
Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Gordon Fleig

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
gefleig@aol.com

Board of Regents Agenda Item (required) *
BOR IV.A. Informational Update on Maunakea Management

Your Position (required) *
Support

Your Testimony/Comments
I support science, astronomy, and the wonderful observatory installations of the past and for the future on Mona Kea.

Your Testimony (pdf or word)
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Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Alan Tokunaga

Your Organization (optional)
University of Hawaii Manoa, Astronomer Emeritus

Your e-mail address (in case we need to reach you) *
tokunagaa001@gmail.com

Board of Regents Agenda Item (required) *
BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)

Your Position (required) *
Support

Your Testimony/Comments
I am an Astronomer Emeritus at the UH Manoa Campus. I worked at the UH from 1980 to 2016 and have therefore seen and participated in the growth of astronomy on Maunakea from the early days. I am a former director of the NASA Infrared Telescope Facility. I was born and raised on Maui, and like many people in the islands I am saddened by the controversy of astronomy development on Maunakea. Stopping the TMT and even stopping all of astronomy in Hawaii will not resolve the issues raised by the Kia‘i movement and it will not yield a better future for the next generation. I believe the proposed Master Plan is a good step toward addressing the many issues that face the University and the community. It will take generations to realize the objectives of the
plan and to address the concerns of the Kia'i movement. No plan will please everyone, but we must move forward and I urge to BOR to adopt this plan.

**Your Testimony (pdf or word)**

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Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Marilyn Johnson

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
kahakiki@outlook.com

Board of Regents Agenda Item (required) *
BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)

Your Position (required) *
Support

Your Testimony/Comments
As a BI resident, I fully support TMT and the UH lease of Maunakea. The revised Master Plan is very thoughtful and inclusive, I applaud your efforts and contributions. Thank you.

Your Testimony (pdf or word)
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# Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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<td>Robert E Hammond</td>
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| Your Organization (optional)   |

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<td>Mary Beth Laychak</td>
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<td>BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)</td>
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To: University of Hawai‘i Board of Regents  
From: Mary Beth Laychak  
Subject: Testimony on Proposed Master Plan for the University of Hawai‘i Maunakea Lands  
Date: December 15, 2021

As a staff member of one of the Maunakea Observatories, I am reassured to see a long range commitment to astronomy in the draft Master Plan; E Ō I Nā Leo. The Maunakea Observatories are the scientifically most productive collection of telescopes in the world and I am proud of the work that we do.

I have the privilege to represent my facility and the Maunakea Observatories (MKOs) in the community. The core values described in the Master Plan resonate with me and reflect the work that myself and others strive to do in the community. It is my opinion that the MKOs have a kuleana to the mauna and the community to respect the wahi pana that is Maunakea and share understanding of the universe gained by the telescopes with the broader community. We also have the obligation to be good neighbors, and contribute to the community we call home. Over the past 50 years, the MKOs have not always done as much as we can or should have, but we strive to do better moving forward.

Over the past decade, I have been a part of the MKOs efforts to do better, both within and outside of our traditional STEM outreach. From the start of COVID, the MKOs saw the need in our community and asked the community “how can we help?” When our community answered that critical needs were food insecurity and our keiki, we started to do the work to help. The W.M. Keck Observatory created a program called Farm to Families where they bought produce from local farmers then donated the food to local organizations in need. MKOs staff volunteer at the Hawai‘i Island Food Basket, packing and helping to distribute food across the island. I am one of the founders of Keiki Heroes, a community based program to educate and empower keiki to feel in control of their own health during COVID. Keiki Heroes is now a statewide program with materials distributed through all the major health organizations in the state. The MKOs are a critical sponsor of Keiki Heroes, supporting the program since day one.

Community engagement is a cornerstone of my work. In my experience, engagement works best when it is a two-way street: asking the community what they want and then listening to the answer. I encourage the Board of Regents and the University of Hawai‘i to truly live up to the values outlined in E Ō I Nā Leo by involving community voices—specifically Hawaiian voices. I believe the Maunakea Observatories are eager to support and willing to lead these efforts, working collaboratively with the University and our community to achieve these goals.

Thank you for the opportunity to provide testimony,  
Mary Beth Laychak
Aloha Chair Moore and members of the University of Hawai‘i Board of Regents,

Mahalo for the opportunity to submit testimony in support of a long-term future for astronomy on Maunakea. It is my personal belief that there is much good to come from the continuation of Hawai‘i astronomy, so long as we are able to come together as a community to advance a new model of collaboration, reciprocity and trust.
I was born and raised in the islands, and have the privilege of working with the Maunakea Observatories (MKO). I have been a part of the telescopes’ good-faith efforts to reset relationships with members of the Hawai‘i Island and statewide community. It is clear that, over the past five decades of astronomy on Maunakea, the experience our community members have had with representatives of the astronomy field has been uneven and inconsistent. For some, the observatories are valuable resources, close collaborators, celebrated partners. For others, the observatories are mysterious ivory towers, perceived as inaccessible and unwelcome in our home. The fix for this unhealthy dynamic didn’t start today, nor will it be complete tomorrow; it will take a while, and only happen through genuine effort sustained over time, directed in the shared best interest of our community.

The past several years have been a sharp wake-up call. These events have underscored the need to put much more focus toward caring for the relationships that make healing, collaboration, and new beginnings possible.

As others will likely point out, the draft Master Plan, E Ō I Nā Leo, lacks specificity in describing how community voices - specifically Hawaiian community voices - will inform Maunakea management decisions in the future. This reset of relationships and power dynamics is essential to the success of any future management plan. Ensuring that the community derives meaningful benefit from the presence of astronomy on Hawai‘i Island is critically important as well, and I encourage the Regents to probe further into the University’s position on how that benefit can be shaped in collaboration with our community, and delivered in a meaningful way. The MKOs are eager to support and willing to lead in that effort, and will work collaboratively with the University to advance these goals.

Mahalo for your consideration of my testimony, and for your attention on this important set of issues.

With aloha,
Christine Matsuda

christine.matsuda@gmail.com
(808) 321-2473
Dear Board Members,

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work.

Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

I was a friend of Paul Coleman and I know he supported everything that you are doing for Hawaii. Stay strong for Paul.

Thank You
Carl King
406-550-3984
cwmking057@gmail.com
Dear Board of Regents,

On behalf of the Directors of the Maunakea Observatories (MKO), I am respectfully submitting testimony on Agenda Item IV. B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices) that will be discussed at the Special Board of Regents Meeting on December 16, 2021.

The testimony is attached to this email as a PDF file.

Mahalo,

Rich Matsuda

W. M. Keck Observatory

MKO Testimony_UH Master Plan.pdf
119K
To: University of Hawai‘i Board of Regents  
From: Maunakea Observatories  
Subject: Proposed Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Nā Leo  
Date: 15 December 2021

The Maunakea Observatories (MKO) appreciate the University’s efforts to guide land use decisions for the next two decades through the proposed Master Plan, E Ō I Nā Leo. MKO extends our support and desire to collaborate with all stakeholders on Maunakea as the important and weighty future responsibility of governing the Maunakea Science Reserve lands is determined.

The MKOs agree with a long range commitment to astronomy in the draft Master Plan. We believe science is important, and astronomy is beneficial to our local community, the state of Hawai‘i, and the world.

For the past five decades, telescopes on Maunakea have provided important new knowledge about the universe, including two Nobel Prizes in Physics, the very first image of a black hole - Pōwehi, detection of ʻOumuamua - the first known interstellar object passing through our solar system, the first image of a solar system beyond our own - HR8799, and much more. The publicly shared scientific knowledge produced on Maunakea deepens our understanding of the laws of nature and even addresses fundamental questions about human existence.

There are many positive benefits that result from our scientific endeavors. We share astronomy with students through our many STEM outreach activities, such as the Maunakea Scholars Program that provides opportunities for Hawai‘i public high school students to engage in research using highly-coveted time on Maunakea telescopes. We provide high-quality internships to college and community college students from Hawai‘i through programs like the Akamai Workforce Initiative. And, we offer a wide range of engineering, technical, scientific and administrative employment opportunities for Hawai‘i residents in our workforce of approximately 500 jobs at the MKOs. In addition, the MKOs rely on scores of local businesses to conduct our operations. The total economic impact is significant, contributing approximately $200M per year to Hawai‘i’s economy.

While we believe in the benefits of astronomy, we acknowledge that for many in the Native Hawaiian and local community Maunakea is a wahi pana of immense environmental and
cultural significance that takes priority over other activities. Knowing this, we strive to conduct astronomy in a balanced and respectful way with care for the environment and respect and support for Native Hawaiian cultural practices. Our thoughts are in alignment with the recently released Decadal Survey on Astronomy and Astrophysics 2020 (Astro2020) from the National Academies of Sciences, Engineering, and Medicine, which includes a major recommendation for “the development of a new model for respectful, collaborative decision-making in partnership with Indigenous and other local communities.” As such, the MKOs recommend the plan be more specific about its impacts on the indigenous Native Hawaiian and local communities, and that the plan outline processes for meaningful partnership and collaborative decision-making with these communities, which we look forward to participating in.

Thank you for the opportunity to provide testimony.

Aloha,

Director Hilton Lewis, W. M. Keck Observatory (Keck I and Keck II)

Interim Director Andy Sheinis, Canada-France-Hawaii Telescope

Director Paul Ho, James Clerk Maxwell Telescope (East Asian Observatory)

Director John Rayner, NASA Infared Telescope Facility

Director Michitoshi Yoshida, Subaru Telescope
The TMT is part of the grand vision of our beloved Governor of Hawaii, John Burns. Mauna Kea's potential was part of how he saw Hawaii and its role in the future. According to grandson Brendan, Governor John Burns, "dreamed of the creation of world class telescopes". Because of his efforts to make this happen, the road leading up to the telescopes on Mauna Kea is called "John A. Burns Way." This was in 1970.

Experts will extoll the location, the pristine conditions, I point out the continuity of history. The building of the TMT will be the pinnacle of the vision he had for our state and the continuation of Queen Lili'uokalani's passion for science. She said, "The ancient Hawaiians were astronomers."
Whatever valid issues exist between the supporters and protesters of the TMT, I hope that they can be worked out in a fair and honest way, perhaps in the Hawaiian Ho'oponopono way.

I think about the ancient ones
— na po'e kahiko—
robust, curious, hungry to find.
How they would have relished
exploring nōho'i
—the Milky Way—
to watch creation unfold
by slicing through time
diving into the waves of the Big Bang.

Jean Toyama

Your Testimony (pdf or word)
No file attached
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Carol S Long

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
longc007@hawaii.rr.com

Board of Regents Agenda Item (required) *
BOR IV.A. Informational Update on Maunakea Management

Your Position (required) *
Support

Your Testimony/Comments
While I respect the Native Hawaiians, I believe in science. TMT goes beyond Hawaii and involves the whole world. TMT will benefit all of mankind. We all need to look at the whole picture and see that TMT is for everyone.

Your Testimony (pdf or word)
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<tr>
<td>Shanna Kahealani Souza</td>
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<td>I OPPOSE TMT! DO NOT BUILD! PLEASE PROTECT THE NATIVE LANDS AND THE RESOURCES. DO NOT BUILD! DO NOT BUILD!</td>
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Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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<th>Adrienne Sepaniak King</th>
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**Your Testimony/Comments**

I support TMT.  
I support UH’s draft Master Plan.  
I support keeping astronomy on Mauna Kea--- not just alive but thriving.  
I support the renewal of the UH’s Master Lease with the DLNR to manage Mauna Kea and all the telescopes.  
I am the mother of two boys and grandmother to two more of part Hawaiian ancestry.  
Hawai‘i’s keiki need UH and this state’s unequivocal commitment to encourage astronomy and build TMT.  
Why?
TMT is arguably the greatest project to ever be developed in Hawaii. I am confident UH will continue to do an incredible job of managing Mauna Kea, noting that Mauna Kea is actually among the few best managed state-owned parcels of land in Hawaii. The University has been especially sensitive with respect to obtaining a permit for the construction of TMT, which would join all the observatories administered by UH as the most scientifically-productive collection of telescopes in the world. Surely UH regents must be aware that US intelligence agencies have been directed to give unclassified reports about Unidentified Aerial Phenomenon (UAP), reported by US Navy pilots and others, to Congress in June 2022. The government's publicly admitted interest in these phenomenon presents an unbelievable opportunity for this University to assume a prime position in efforts to learn if we are the only planet with life in this universe. The kids know about these sightings. They are engrossed in Star Wars and enthralled with anything to do with outer space. Why deny that hunger to learn to our keiki right here in our own state?

Too few science educational and enrichment opportunities are available to marginalized populations in Hawaii. The United States government aims to address this problem. STEM education in Hawaii would be significantly enhanced by recognizing the unique opportunity Mauna Kea presents. The building of TMT will tell all our children that they can learn about the stars and the planets right here in Hawaii—they need not leave home. TMT will reinforce the historical fact that their ancestors traveled all over the Pacific and Indian Oceans before the Europeans even knew Hawaii or the Pacific Ocean existed!

Supporters of TMT, and that is actually the majority of the population in Hawaii, know their children want to be able to proudly proclaim: "I am of ___ ancestry and I discovered this, I invented that, I identified!!! an "aerial phenomenon", I made a difference—not just for my people, my culture, my family, my country, but for the whole world—the universe! Yes, me! I did it and you can too!"

Approve the Master Plan and ensure renewal of the Master Lease with the University of Hawaii. IMUA!

Adrienne King

1

Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES) Design and Development Launch Pilots

Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES) is a comprehensive national initiative designed to enhance U.S. leadership in science, technology, engineering and mathematics (STEM) discoveries and innovations focused on NSF's commitment to diversity, inclusion, and broadening participation in these fields. NSF INCLUDES supports efforts to create networked relationships among organizations whose goals include developing talent from all sectors of society to build the STEM workforce. This initiative seeks to improve collaborative efforts aimed at enhancing the preparation, increasing the participation, and ensuring the contributions of individuals from groups that have traditionally been underrepresented and underserved in the STEM enterprise: women, persons with disabilities, African Americans/Blacks, Hispanic Americans, American Indians, Alaska Natives, Native Hawaiians, Native Pacific Islanders, and persons from economically disadvantaged backgrounds. Significant advancement in the inclusion of these groups will result in a new generation of STEM talent and leadership to secure our nation's future and long-term economic competitiveness. https://www.nsf.gov/pubs/2017/nsf17522/nsf17522.htm

Your Testimony (pdf or word)

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Public Testimony Form - University of Hawaii Board of Regents

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<td>Support</td>
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<tr>
<th>Your Testimony/Comments</th>
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<tr>
<td>I urge the BoR to approve the new Master Plan for Maunakea. One of the ways in which Hawaii is known around the world is through its astronomical discoveries, many of which are given Hawaiian names. The University is improving its outreach and education to the broader community and astronomy is a great way for us to grow and diversify the Big Island economy with minimal environmental impact. Maintain strong oversight but allow astronomy to continue on Maunakea!</td>
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<th>Your Testimony (pdf or word)</th>
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<td>Page 1529</td>
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<td>Your Name (required) *</td>
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<tr>
<td>Robert Scott</td>
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<td>Your Organization (optional)</td>
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<tr>
<td>Hawaii resident over 20 years</td>
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<td>Your e-mail address (in case we need to reach you) *</td>
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<tr>
<td><a href="mailto:Scottyrscott@hotmail.com">Scottyrscott@hotmail.com</a></td>
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<tr>
<td>Board of Regents Agenda Item (required) *</td>
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<td>Your Testimony/Comments</td>
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<td>There needs to be continuity in management concerning Maunakea and UH has a balanced vision to remain its keeper. One of important issues for me about this TMT build is based on our economy and what this project will contribute to that.</td>
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<td>Your Testimony (pdf or word)</td>
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Building TMT is a matter of time. The protesters' game is to delay as long as possible in the hope that we give up. Part of this strategy involves changing the management system of Mauna Kea, especially removing the University of Hawaii as the manager of Mauna Kea because that would create chaos for the astronomy community. The reason for this is that UH holds a Master Lease from the Department of Land and Natural Resources to manage Mauna Kea and all the telescopes have sub-Leases with UH based on that Master Lease. If UH's Master Lease is not renewed, it will create legal ambiguity as to whether the subleases are still good and possibly push the telescopes off Mauna Kea. Therefore, the protesters believe that stopping UH's Master Lease stops TMT. That is not strictly true, but it will create enough risk that we encourage TMT supporters to support renewal of UH's Master Lease.

UH is currently applying for that lease renewal. Part of that process is the creation of a number of plans, including a Master Plan. The UH Board of Regents is holding a hearing to discuss the Master Plan. The protesters are using this opportunity to attack the plan as a way of attacking TMT and destroying the astronomy industry.

The reality is that UH actually does a really good job managing Mauna Kea. Mauna Kea is some of the best managed land in the state.

Gerald Takase
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT).

UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home.

The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

I mua Kīlo Hōkū and I mua TMT!

Barbara B. Ells
Ben W. Dysart
Aloha >
Shanna Souza <shannasouza0124@hotmail.com>  
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>  
Wed, Dec 15, 2021 at 9:12 AM

I OPPOSE TMT! this email I received asking to support is malicious and disgusting.

Go build a telescope on YOUR HOUSE then

Shanna
Aloha Regents,

I’m an active member of our Kona community and have served as Association of Hawaiian Civic Clubs Hawaii Council President. I have also served on the Hawaii Island Burial Council.

I support the University’s management on Maunakea.

The mauna holds very special meaning to all of us of Hawaiian ancestry. It’s where we can all look forward as a people knowing our ancestors traveled the vast oceans using the very sky we see from its summit today. It’s the best place in the world to study the universe. The mountain is a portal to the universe – a place to study the stars that lead our ancestors to these islands.

What an honor for future generations of native Hawaiian people to know that their mountain stands in the world’s light. Maunakea represents our future, we respect the value and significance and cultural values keep us moving forward and progressing. Our culture is living and vibrant.

I believe the University of Hawaii is successfully managing the mountain, they are successfully implementing the Comprehensive Management Plan, which we all as a community supported, and they are protecting the cultural, scientific, educational and natural resources within their kuleana of land. The draft Master Plan before you continues the stewardship efforts to malama Maunakea.

When an agency of any kind has to manage public lands, finding a balance to multiple public interests is necessary. That challenge and responsibility is not unique to UH or to Maunakea. The draft Master Plan before you strikes that balance.

This is good stewardship. Please approve the Proposed Master Plan for the UH Lands on Maunakea.

Mahalo for your time,
Gene ‘Bucky” Leslie

Sent from my iPhone
Even though I live in Michigan and have never been to Hawaii, I have friends who live there and several relatives and friends who have travelled there! The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and your state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up! The tourism industry in Hawaii has suffered greatly because of the pandemic, so please be good to the astronomy folks! We all need the science of astronomy, so this is good for ALL of the USA!

- -----

Judy Kline

(248) 506-7923
The international community has weathered the years-long legal storm and protests, and continues to support the TMT in spirit and in substance. The majority of people in Hawaii support the TMT and associated Mauna Kea area management. Even the majority of people with Native Hawaiian ancestry support the TMT. The UH has addressed the issues well, and should remain the master lease holder for telescope management. It is time we move ahead instead of taking a step into stagnation.

Fred Fogel
Volcano
POB 1071 96785
808 265 1659
I am writing to state my support for your Master Plan.

Sent from my iPad
I write in my individual capacity to support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). From what I have heard, UH has done a good job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT.

TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. In my observations, the science community is very respectful and treats the land well. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work.

Astronomy on Mauna Kea is properly viewed as an extension of the Pacific Islands cultures that brought people to these islands. Astronomy has earned high respect. I believe Papa Mau would have supported continued astronomy on Mauna Kea.

Astronomy on Mauna Kea provides opportunities for our youth to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. As an educator, I hope my students will have opportunities associated with astronomy and the TMT.

On a personal note, as an undergraduate I, among others, had the opportunity to work for “big science” in a physics lab exploring the nature of fundamental particles. It greatly improved my academic experience and lead to my life-long involvement in computer science-related work. TMT will make possible many such opportunities of for the younger generations in Hawaii.

The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please extend the Master Plan and keep astronomy on Mauna Kea.

Respectfully, E Malama Pono,
Daniel C. (Dan) Smith, PhD
1-808-462-8346, Mobile
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I urge UH to do everything in its power to ensure TMT is built.

If the TMT is not built on Maunakea, the long term future of astronomy in Hawaii is bleak, as no project involving the construction of a major observatory on Maunakea (the best site in the world for ground-based astronomy) will want to go through the struggle, with likely a negative result, that the TMT project has been going through for so long. Maunakea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Maunakea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. It brings a valuable dimension to our lives and culture that few communities have. The presence of astronomy on Maunakea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and recognition of the world-class nature of the work it brings to our state. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Sincerely,

Tom Geballe
Hilo
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Please, don't let the protesters convince you otherwise. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!
Aloha

I would like to express support for the Maunakea Master Plan as well as the entire Astronomy community as we work through this difficult stage of our transformation. Although Maunakea has been mismanaged in the past, it has worked hard to improve on all fronts including cultural, environmental and scientific. I grew up with telescopes on Maunakea and I see them as a valuable part of our future. Thank you for hard work and perseverance.

Mahalo
Katherine Roseguo

Please - remember, reduce, reuse, recycle, renew, refresh, recover, restore, respect, refuse, reintegrate, rethink, revitalize, replant, replanet, regreen, refurbish, regrow, rot.
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT.

TMT is one of the greatest scientific projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture.

Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home.

The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there.

Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Matt Smith
**Public Testimony Form - University of Hawaii Board of Regents**

*Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.*

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<thead>
<tr>
<th>Your Name (required) *</th>
<th>Gerald Mayfield MD</th>
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<tr>
<td>Your Organization (optional)</td>
<td></td>
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<tr>
<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:germay2@aol.com">germay2@aol.com</a></td>
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<tr>
<td>Board of Regents Agenda Item (required) *</td>
<td>BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)</td>
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<tr>
<td>Your Position (required) *</td>
<td>Support</td>
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<tr>
<td>Your Testimony/Comments</td>
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<tr>
<td>Hawaii certainly needs the astronomy resource to succeed including TMT a clean, educational, scientific endeavor. The State is overly dependent on tourism and more of the entities such as astronomy and the TMT help to offset that dependency.</td>
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<tr>
<td>Your Testimony (pdf or word)</td>
<td>No file attached</td>
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</table>
I Support the TMT

David Taylor <DiverDaves@msn.com>
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>

Please don't listen to a bunch of loudmouth racial supremacists. Build the TMT!

Diver Dave Taylor diverdaves@msn.com
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Michael Hoenig

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
mdh@cantab.net

Board of Regents Agenda Item (required) *
BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)

Your Position (required) *
Support

Your Testimony/Comments
I whole-heartedly support the UH draft Master Plan because it keeps astronomy on Maunakea alive (including the Thirty Meter Telescope). UH has done a very good job of managing the mauna over the past 20 years, as someone who has worked there I know this isn't always an easy undertaking. It's easy to criticize when things do go wrong, but overall I am very confident in UH's ability to manage Maunakea - it is now some of the best managed state-owned land in Hawaii!
Astronomy on Maunakea provides a huge amount of scientific knowledge to all of humanity. I am happy the observatories exist and proud of the work they do. Astronomy provides clean, skilled jobs for our residents. It also provides opportunities for our keiki to in terms of education and training. The presence of astronomy
on Maunakea is vital for the Big Island community and our state as a whole, for the economic diversification and the world-class nature of the work that goes on there. Please keep it up, and please do everything within your power to ensure TMT gets built here.

Mahalo for your time,

Michael
I support the UH Master Plan
1 message

Michelle Sandell <mysandell@gmail.com>
To: bor testimony@hawaii.edu

I support the UH Master Plan because I support astronomy in Hawaii, astronomy supports Hawaii, and I believe the University of Hawaii has stepped up well to handle the major responsibility of managing Mauna Kea in the past. I am confident they will continue to do so in the future. The Master Plan’s expanded efforts to incorporate other disciplines for field studies at Halepōhaku, to be committed to the teaching telescope there, and to increase the ways the larger community can connect with the decision-making process are all exciting things to look forward too.

I am proud of what Mauna Kea stands for, and I am proud that this evidence of care for the land and for each other, and the pursuit of knowledge on Mauna Kea is a manifestation of important virtues that humans prioritize. Let’s keep up the good work and move forward with UH’s draft of the Master Plan.

Sincerely,
Michelle Sandell

Dr. Michelle Sandell
PhD, Northwestern University

Writer, DiscoverHawaiiScience.com
Website guru, Ke Ola Magazine
Please follow our laws and court ruling. The Protesters have has their appeals over and over for 13 years, and compromises have been made, by the pro group. It is time to stand up for the majority, including Hawaiians, who want this built. No more delays, no more listening to their lies and rhetoric. Do what is right for all of us.

Mahalo, Jamie Reno

Paauilo, Hi.
Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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<tr>
<th>Your Name (required) *</th>
<th>Peter Matlock</th>
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<tr>
<td>Your Organization (optional)</td>
<td>Providing input as private citizen</td>
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<tr>
<td>Your Testimony/Comments</td>
<td>Many wrongs to Native Hawaiians grievously need attention. There is vehement disagreement whether this can be done in concert with or in exclusion to Astronomy. Yet, driving away Astronomy (TMT, current telescopes) denies educational and life opportunities for Hawaii’s future generations— including for Native Hawaiians who bring valuable perspectives to advancing scientific excellence. If Hawaii becomes known for an anti-science attitude the negative impacts will extend beyond Astronomy to all scientific disciplines, hindering the ability of Hawaii’s children to thrive in the current century and diminishing our ability to solve critical problems. UH can and should lead the way.</td>
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Public Testimony Form - University of Hawaii Board of Regents

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</table>
I support the draft Master Plan for the University of Hawaii Maunakea Lands dated December 10, 2021.

Maunakea is a special place for its beauty, cultural significance and uniqueness in the world. We share kuleana to keep it that way. The Plan shows careful consideration and balancing of both the cultural and scientific importance of Maunakea.

- Maunakea is the best location in the world for astronomical observation. UH should do everything it can to maintain that status. I support the cutting edge observatories on Maunakea, the decommissioning of observatories that are past their prime, and the building of new observatories as they meet standards in the Master Plan. Yes, I support building the TMT. I believe that the people employed by these observatories will continue to treat the mauna with the utmost respect. The world benefits from the discoveries made on our mauna. Our kamaʻaina benefit from the inspiration (and jobs) our observatories provide.

- Expanding educational opportunities is a great goal, as long as you are careful not to overwhelm facilities.

- Allowing cultural practitioners access to the summit is a given. But they, too, need to malama kaʻaina. I'm disgusted at the continued ugliness of the protestors’ camp leavings and hope we never see such a mess up at the summit.

- Tourism (off-islanders and kamaʻaina) has to be managed and limited to prevent damage to the mauna and to facilities. I think the Plan outlines a decent approach, but I expect it will require adjustments as you learn what works best.

The University of Hawaii has learned a lot (and will keep learning) and has shown that it should continue managing the Maunakea Lands for the benefit of all.

Georjean Adams
South Kohala, Hawaii
I Support TMT

Terryl Leong <terrylberryl@gmail.com>  
To: bor.testimony@hawaii.edu

Because Ancient Hawaiians developed healing methods like massage and plant-based medicines, I really feel they would have supported the education that the TMT project will give the world!

As long as all precious living things that the building of TMT structures would destroy are protected and found homes for, I support this project. All other space exploration structures not being used should be removed with the same consideration.

Terryl Leong  
(808) 782-7893 call or text

Sent from my iPhone
To the University of Hawai‘i Board of Regents:

I strongly support UH’s draft Master Plan. It keeps the vital work in the field of astronomy alive on Mauna Kea, including the Thirty Meter Telescope (TMT). In my opinion, the TMT is the most significant, leading-edge project to ever be developed in Hawaii, and UH should be doing everything in its power to ensure the TMT is built. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and some of the most important discoveries in astrophysics, like “dark energy” and locating a “black hole”, have been made at the Keck. Astronomy, using the stars to navigate, is central to the Hawaiian culture, and how anyone, especially any dedicated educator could be against building the world’s greatest telescope here, in reality, runs counter to the Hawaiian culture. Astronomy on Mauna Kea also provides opportunities for our students on all grade levels to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there.

Please make sure it is supported!

Mahalo and I mua TMT!

Elizabeth Miller
Volcano, HI  96785
Re Mauna Kea Master Plan

Sam King <kingsam2@gmail.com>
To: BOR Testimony <bor.testimony@hawaii.edu>

Aloha e Regents,

I am writing in favor of the UH Mauna Kea Master Plan up for discussion at your upcoming Board of Regents meeting on December 16, 2021.

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there.

I do have a couple of suggestions for how to improve the master plan.

1. After the decommissioning of the 5 telescopes promised with TMT, there should be no future restrictions on the development of Mauna Kea for astronomy purposes imposed by UH on future generations. The individual permitting process for each telescope can decide that. UH should not feel pressured by protesters to place artificial caps on the number of telescopes to be built on Mauna Kea.

2. UH should strive to explain that "culture" is a concept that embraces both scientific endeavor and religious experiences. Unfortunately, much of the discussion of Native Hawaiian issues in the plan provided an overemphasis on Kapuist religious beliefs and creation chants. The reality is more complicated. For starters, the kapu religion imposed on the islands by Kamehameha I was abolished by our ali`i 200 years ago. Continuing to invoke its beliefs, such as the kumolipo, or Native Hawaiians being descended from Papa and Wakea, in the name of the Hawaiian people is odd. Second, there were atheists in Hawaii even prior to the arrival of Captain Cook, so it was never true that Native Hawaiians uniformly believed in any particular religion. The belief that Mauna Kea is sacred, or mention of "Hawaiian worldviews" are unjust impositions on the freedom of thought for Native Hawaiians. Native Hawaiians are free to believe as we choose, both religiously and politically. UH should point out that claims of Mauna Kea's sacredness are ultimately "religious" beliefs. They are, at best, equivalent to scientific beliefs. Thus, both science and religion have a right to share the mountain with each other. And the sharing of the mountain by science and religion is the culture of Hawaii.

Mahalo,

Samuel Wilder King II
I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Sincerely,
Euclid A. LoGiudice
16-2069 Gardenia Dr.
Pahoa, Hawaii 96778-7584
Support for TMT and the UH master plan

nrochele <nrochele@gmail.com>  
To: bor.testimony@hawaii.edu  
Thu, Dec 16, 2021 at 6:23 AM

I have been a science teacher in the state of Hawaii for 40 years and believe that future generations will benefit from TMT and the University of Hawaii’s master plan.

Stay safe,
Nancy Rocheleau

Sent from Samsung tablet
Build TMT!!!

Ian Jenss <jenss96744@gmail.com>
To: bor.testimony@hawaii.edu

Thu, Dec 16, 2021 at 6:40 AM

I am writing this in support of the Thirty Meter Telescope.
Here is an opportunity to respectfully connect Hawaii's past to its future.
This has many layers of positive things that can benefit our community as well as students in every level of education.
Jobs being one of the driving factors and astronomy the other.
I hope this short letter helps to make this telescope a reality.

Sincerely,

Ian Jenss
Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Howard L. Hall

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
hhall@hpa.edu

Board of Regents Agenda Item (required) *
BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)

Your Position (required) *
Support

Your Testimony/Comments

Your Testimony (pdf or word)
I‘mua TMT.docx (89.7 kB)
I'mua re TMT

I support University of Hawaii's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). I have lived in Kamuela for 60 years and the UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture.

It is common knowledge among all of us who live in Hawaii that King Kalakaua showed immense interest in astronomy and stated in a letter to Captain R. S Floyd that he had a desire to see an observatory established in Hawaii. And Queen Liliuokalani oft noted that “The ancient Hawaiians were astronomers”. So it is fitting that the use of Mauna Kea as the world’s premier astronomical observing platform is a testament to the vision of our Hawaiian heritage.

Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our state. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!
**Public Testimony Form - University of Hawaii Board of Regents**

*Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.*

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Your Testimony (pdf or word)

No file attached
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Alvin Toda

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
aet002@hawaiiantel.net

Board of Regents Agenda Item (required) *
BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)

Your Position (required) *
Support

Your Testimony/Comments

I am a retired kupuna and support the TMT. The mountain is the best seeing in this hemisphere. I think that great knowledge can be learn from heavenly observations at that site.

I see no reason why the mountain can not be used in many different ways as long as the beauty of the place is respected and preserved. The people of Hawaii should be able to visit and learn from the area.
# Public Testimony Form - University of Hawaii Board of Regents

*Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.*

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<td><strong>Your Position (required)</strong> *</td>
<td>Oppose</td>
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<td><strong>Your Testimony/Comments</strong></td>
<td>I am a Native Hawaiian descendent and I highly OPPOSE the Maunakea Plan.</td>
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I support the UH Master Plan for Astronomy and the placement of the TMT on Mauna Kea, not only for the numerous opportunities and benefits they would provide Hawaii and its people but for the resultant worldwide recognition and honor of our original Hawaiian navigators and our beloved mauna!

Theone Vredenburg
(Born and raised on its slope.)
15 UH RESPONSE TO MAUNA KEA WORKING GROUP’S HE LĀ HOU KĒAI MA MAUNA A WĒKEA: A NEW DAY ON MAUNA A WĀKEA
University of Hawai‘i Response to the Maunakea Working Group’s Draft Report:
He Lā Hou Kēia Ma Mauna A Wākea: A New Day On Mauna A Wākea

Mahalo for the opportunity to provide comments on the Mauna Kea Working Group’s ("MKWG") Draft Report to the Hawai‘i State Legislature entitled, He Lā Hou Kēia Ma Mauna A Wākea: A New Day On Mauna A Wākea ("Report"). It is clear from the Report that the MKWG worked diligently in fulfilling their charge.

We have organized our response around five themes that arise from the content of the Report: 1) The University of Hawai‘i (UH) embraces the value of the Kānāwai principles; 2) The MKWG’s recommendations risk the future of astronomy in Hawai‘i and beyond; 3) The complexities and costs of managing access to public lands have been underestimated; 4) Legal and administrative concerns; and 5) UH’s responsible stewardship of Maunakea.

Our cover letter summarizes our views on these themes with further elaboration provided in the Attachment. Our intent is to provide an overview of the real challenges and implications of the Report and provide background that should be considered prior to contemplating and drafting legislation seeking to build upon the recommendations in the Report. Further discussion is welcomed.

1. The Kānāwai principles are consistent with UH plans for Maunakea

We acknowledge and appreciate the holistic and integrated approach of the Kānāwai principles described in the Report. The symbiotic connections between the elements of nature, and of nature with humans, emphasizes the importance of sustaining balance between these forms. These principles are valuable guidelines for land use planning and decision making. We understand that stewardship of Maunakea is a privilege that requires a comprehensive and cohesive management program. The University embraces these perspectives, which are reflected in the integrated and balanced nature of our own Master Plan including our proposed update, our Comprehensive Management Plans, and our Administrative Rules that collectively and specifically outline our commitments and responsibilities to Maunakea, the state, and the communities we serve.

As you know, managing public lands, especially 'āina with as many complexities and conflicting expectations is extraordinarily complex. We are committed to continuous improvement and look forward to improving the application and integration of these principles into the University’s existing and next plans within the context of governing laws and regulations.

2. The MKWG Report places the future of astronomy at risk

Foundational to the Report’s recommendations is the position of the MKWG that astronomy on Maunakea above the 9,200 foot elevation should be phased out as an allowed land use (Page 25).

Support for astronomy on Maunakea is a longstanding State policy going back more than fifty years. At that time, the State decided that it did not want to just be a passive landlord for the best observatories in the world but that Hawai‘i should be the home of a world-class program of astronomy research and education. This has enabled Hawai‘i to participate in and lead the discoveries that underlie human understanding of the origins of the universe and the celestial bodies around us. It is not an overstatement to say that what is at risk here is the future of...
astronomy as a field of human inquiry, as a source of economic activity on Hawaiʻi Island, as an inspiration for Hawaiʻi’s youth, as a source of pride for the people of Hawaiʻi, and as an area of international excellence for UH and our students. Consistent with its place in Hawaiian cultural tradition and cosmology, Maunakea stands as a uniquely treasured scientific and community resource.

Maunakea is truly deserving of the highest levels of stewardship. Decisions on access to Maunakea for culture, science, education, recreation, and commercial activities require broader policy discussions involving stakeholders across multiple communities and policy-makers on Hawaiʻi Island and the State. The recommendation to eliminate astronomy is not substantiated by wider stakeholder input in the Report.

The risk to astronomy’s future is further amplified by the lack of specifics in the implementation plan for establishing the new Governing Entity proposed by the MKWG. Numerous steps would need to be achieved to establish the new Governing Entity including, but not limited to, enabling legislation, land transfers, development of land use and management plans, permitting requirements, development and coordination of administrative rules across jurisdictions, standard operations start-up, and the potential for appeals at multiple steps along the way. At the Board of Regents direction, the UH administration conducted its own analysis of alternate governance models for Maunakea in 2020. The MKWG’s projected timeline of three years to establish the new Governing Entity is unrealistic and exacerbates the risk to the future of astronomy due to the impending termination of the current general lease in 2033. These are no small steps and the lack of a viable business plan on top of these challenges makes success highly speculative, especially with the Report’s reliance on general fund appropriation.

3. The complexities and costs of managing access to public lands have been underestimated

Under the proposed powers and duties in the Report, public access appears to be more restrictive and does not reflect the wide variety of values the broader community holds towards Maunakea, including recreational, subsistence, educational, and economic (including commercial tour operator) uses. Does the MKWG propose to prohibit snow play? Hunting? Hiking? Who would determine the legitimacy of claims made by individual native Hawaiian cultural practitioners?

Access to Maunakea by Hawaiʻi Island residents, including native Hawaiian practitioners, is one of the most contentious and consistently raised concerns in matters related to Maunakea. The Report underestimates the complexity of addressing public interests and coordinating across the various jurisdictions on Maunakea. The proposal to include adjacent State and private lands into the jurisdiction of the new Governing Entity exacerbates the operational complexities of the enterprise and significantly increases its resource requirements. It is also unclear on how new rules and procedures the new Governing Entity adopts would integrate with existing rules governing activities on DLNR, DHHL, County, and private landowner property that is included in the new land area defined in the Report. Importantly, who does the MKWG propose to allow to have access, who will it prohibit, and who will make decisions about how individuals are placed into categories that are allowed or disallowed access?

Finally, the Report does not meaningfully address the resource requirements of the new Governing Entity. Annual operating costs for stewardship alone are $12M, the majority of which is covered by extramural and non-general funds generated by the University. In addition, the University provides world-class global network connectivity for all Maunakea Observatories so
that the data collected on the mountain can be shared with researchers and students at institutions around the world. Under the new management regime being recommended, absent other sources of revenue because of the uncertainty created about future access and use, a substantial investment by the State will be required to support a new stewardship program that would have jurisdiction for significantly more land than the current program.

4. Legal, administrative, and funding issues present risks for implementation of the MKWG’s proposal

There are a number of legal, administrative, and funding concerns raised by the MKWG’s proposal that will require further analysis and discussion. These include but are not limited to:

A. The potential constitutional concerns related to race-based membership of a government entity with control over state lands and resources.
B. The Report does not account for the complexity of the various jurisdictions on Maunakea, and the variety of funding sources that will need to be shored up, or replaced with general funds.
C. As discussed before, stakeholder representation on the board of the new Governing Entity will in and of itself create governance and funding problems.
D. The complexities and risks of successfully working through the aforementioned tasks of realigning, much less simply coordinating, management of public lands that are currently under leases and/or the jurisdiction of different agencies with different administrative rules.

All of these are complex issues and any one of these is a potential show stopper given the contentious nature and resources required of them. Attaching the success of a newly established entity to highly speculative outcomes requires considerably more cost-benefit analyses than is provided in the Report.

5. The University’s commitment and ability to successfully steward Maunakea has been demonstrated

The University has acknowledged and apologized for its stewardship of Maunakea in the last century. Subsequent state audits of the University’s management of Maunakea have documented our commitment and improvement over time. In its Report on the Implementation of State Auditor’s Recommendations 2014 – 2017, the State Auditor noted that of the several audit recommendations from 1998, only four (4) were outstanding as of its November 2019 report. One item, directly under the control of the University, was completed with the University Board of Regents’ (“BOR”) adoption of Hawai‘i Administrative Rules (“HAR”) chapter 20-26 on November 6, 2019 (approved by the governor on January 13, 2020). The University is actively working on the remaining three (3) items in coordination with DLNR, which has final approval on these particular tasks. These remaining items are dependent on whether a new general lease is to be granted to UH and, more significantly, whether there is a future for astronomy on Maunakea, both of which are decisions outside UH’s sole authority.

The University is charged with implementing 103 management actions in the Mauna Kea Comprehensive Management Plan, adopted by BLNR in 2009 (“CMP”). The University’s implementation of the CMP was the subject of an independent review conducted by Kuiwalu in December 2020 at the direction of DLNR (“Independent Evaluation”). DLNR’s Independent Evaluation of the University’s implementation of the comprehensive management plan showed that UH had achieved good or some progress on 8 of the 10 desired outcomes identified in the
CMP. The two outcomes where we received a minimal progress rating are actively being worked on. This evaluation also found that people’s perceptions of UH’s effectiveness as manager were associated to whether people supported telescope development on Maunakea, i.e., no change in management practice will satisfy many of those who oppose TMT or even astronomy on Maunakea. This is not a management issue; this is a challenging and contentious statewide policy issue that is, again, not a decision that UH alone makes.

Our efforts to improve stewardship have been recognized by the community. In 2017 UH received the Pualu Award from the Kona-Kohala Chamber of Commerce for our education and outreach. In 2017 UH received a Preservation Commendation Award from the Historic Hawai’i Foundation for our interpretative efforts. And in 2016 we received the Pualu Award for Environmental Awareness from the Kona-Kohala Chamber of Commerce. Finally, and perhaps most notable, in 2011 the Wekiu Bug was removed from endangered species candidate list because of our ecosystem restoration efforts.

The University should be judged by our complete record which shows substantial improvement over time across multiple dimensions. Our commitment has been reliably demonstrated in time, effort, and resources committed by us over the years in the exercise of our stewardship responsibilities for the privilege of access we have. The University believes that the criticism of “mismanagement” often levied against UH, and seemingly the basis for the Report, is now inaccurate and derives from the accusations of those who oppose the state policies in support of astronomy on Maunakea rather than the actual practices of the University.

For these, and the reasons further detailed in the Attachment, we humbly suggest that instead of creating a new entity, the focus turns to what the Hawai‘i Island community, native Hawaiian practitioners, Maunakea observatories, and DLNR have learned over time to continuously improve the University’s stewardship of what has become one of the most, if not the most complex land management challenge in Hawai‘i.

We are available for any questions you or others may have regarding our comments and our stewardship program.

Na māua iho nō me ka ‘oia‘i’o,

David Lassner  Gregory Chun
President, UH System  Executive Director, Center for Maunakea Stewardship
1. The Kānāwai Principles are Consistent with UH Plans for Maunakea

UH acknowledges and appreciates the holistic and integrated approach of the Kānāwai principles described in detail in the Foreword, Introduction, and Chapters 2 and 3 of the Report. The symbiotic connections between the elements of nature, and of nature with humans, emphasizes the importance of sustaining balance between these forms. As stated in the report:

“Normalizing the use of these traditional kānāwai in our modern society protects the life of kanaka, flora and fauna, as well as the health of the environment and the balance of its natural cycles. Developing this worldview can start with an inquiry into native ecology, observing nature, developing a relationship and appreciation of natural phenomena, and exhibiting a sense of responsibility in protecting that which nurtures and feeds us, the ‘āina.” (Page 5).

The connected nature of our surroundings and, therefore, the importance of sustaining balance between the various branches of the natural world are well established in many indigenous cultures. It is a lesson lost upon a large fraction of the world’s population and as an institution grounded in science, UH finds the concepts laid out in the four kānāwai to be sound and relatable. They are the product of centuries of observation and learning in an island setting, developing practices that fundamentally sustain populations of living organisms, including humans, over long periods of time. Embracing them in the future makes sense, given the demonstrated success of their application in the past.

Chapter 3 of the Report is an attempt to bridge the elegant concepts laid out in the previous chapters into a management structure predicated on the kānāwai. Guiding principles are articulated, including:

“We are driven by creativity and innovation, constantly challenging the status quo. Our stewardship of Maunakea is informed based on existing knowledge and traditions (kānāwai) as well as on new and expanding knowledge. We are mindful and observant of needs, trends, and opportunities and seek new knowledge and opportunities in ways that enhance our ability to serve as stewards without jeopardizing our foundation of ‘āina aloha.” (Page 20).

This is an important statement because it explicitly acknowledges the importance of continuity in knowledge systems to support ‘āina aloha, past, present, and future through “…new knowledge and opportunities...”. It is a hopeful and upbeat statement, but the report fails to identify how the approach proposed would actually lead to “new knowledge and opportunities” for our community. It sets up a dichotomy of interests and begs the question, what is the ultimate goal of the proposed management model?

The management of public lands is complicated, as you know, and as any agency will tell you. But, unlike any other land management framework in the state, the University has several layers built into its management framework that includes the Hawai‘i Island community, academics, observatory operators, and the native Hawaiian community who are represented at various levels of decision making. This framework for managing lands on Maunakea was developed
over decades. The University has built constituencies, infrastructure, and funding to support its efforts. The University’s new draft Master Plan and our updates to the Comprehensive Management Plan consider and incorporate what has been learned. Through its experience, the University has successfully moved toward a more balanced goal of astronomy, stewardship, and respect for Maunakea.

The University understands that stewardship of Maunakea is a privilege that requires a comprehensive and cohesive management program. The University embraces the intent of the kānāwai, which is reflected in the integrated and balanced nature of our master plan and our proposed update, management plans, and administrative rules that collectively outline our commitments and responsibilities to Maunakea, the state, and the community in specific terms. These principles are valuable guidelines for land use planning and decision making and we are committed to continuous improvement and look forward to learning how to improve the application and integration of these principles into the University’s existing plans and policies and within the context of governing law and regulation. Maunakea lands currently managed by the University are ceded lands with great cultural significance to native Hawaiians. Ceded lands are held in trust for the five (5) purposes enumerated under section 5(f) of the Admission Act of 1959 and the kānāwai principles can help further balance those objectives.¹

2. The MKWG Report places the future of astronomy at risk

Foundational to the Report’s recommendations is the position of the MKWG that astronomy on Maunakea above the 9,200 foot elevation will no longer be an allowed land use:

“The Governing Entity shall develop a framework to limit astronomy development on the mauna, through development limitations that may include limitations on the number of astronomy facilities or an astronomy facility footprint limitation; provided that in establishing a framework to control astronomy development on the mauna, the Governing Entity shall establish a plan to return the mauna above 9,200 feet elevation to its natural state” (Page 25).

The Report also states that the MKWG had robust discussions over whether future legislation should limit the current astronomy footprint:

“The full Working Group had a robust conversation as to whether the Governing Entity should be prohibited from allowing either an increase to the current number of astronomy facilities or an increase to the current astronomy development footprint. Ultimately, the Working Group was not able to reach an agreement, with some members preferring not to set a specific astronomy footprint or astronomy facility number limit in legislation and others wanting a smaller footprint or less telescopes than what currently exists. Some members wanted a lower number of telescopes, such as the Governor’s and the University of Hawai’i’s proposed nine telescopes. Nine telescopes, while a lower number than the thirteen telescopes that currently exist on the mauna, still represents an increase in the current astronomy footprint, which was unacceptable to some members” (Page 25 Footnote 5).

¹ Section 5(f) of the Admission Act, provides that ceded lands trust purposes are “[1] the support of the public schools and [2] other public educational institutions, [3] the betterment of the conditions of native Hawaiians, as defined in the Hawaiian Homes Commission Act, 1920, as amended, [4] the development of farm and home ownership on as widespread a basis as possible for the making of public improvements, and [5] the provision of lands for public use.”
The Report is also not clear on the question of funding and the details of implementation are lacking:

“To support the Governing Entity, a special fund shall be created as an on-going revenue base of funding. The Governing Entity shall consider various supplemental revenue sources to be deposited into the special fund, including but not limited to renegotiated lease terms and fees; observatory use fees; common area maintenance; toll fees; general funds; ecosystem service fees; user fees; other surcharges or fee structures; and state, county and federal funding” (Page 27).

“To assure that the Governing Entity has adequate time to establish itself, the Governing Entity shall have a transition period of three years to assume management of Mauna a Wākea lands”; and,

“To help establish the Governing Entity, general funds should be allocated by the Legislature for at least the first five years. Special funds shall also be used to provide financial support for the Governing Entity.” (Pages 24 and 27)

Further, the Report states decision making regarding the new managed lands will be under the “sole authority” of the proposed new Governing Entity:

“The Governing Entity shall be the sole authority for the management of designated state-owned lands on Mauna a Wākea (See JURISDICTION)” (Page 24).

Collectively, the result of these proposed changes, i.e., uncertainty regarding: the future for astronomy, implementation requirements, and decision-making authority, is to increase substantially the risk to the ongoing viability of astronomy. Importantly, the process for implementing the recommendations must occur at an unprecedented pace to enable a future for Maunakea (Hawai‘i) astronomy. Numerous steps would need to be achieved including but not limited to enabling legislation, land transfers, development of land use and management plans, development and coordination of administrative rules across jurisdictions, and operations start-up. The projected timeline of three years to establish the new entity is unrealistic and exacerbates the risk to the future of astronomy due to the impending termination of the current general lease in 2033 (see section 5 herein for UH’s governance analysis). The lack of a viable business plan on top of these make success highly speculative, especially with the Report’s reliance on general fund appropriation.

It must also be noted that these changes require not just State of Hawai‘i approval but they must be embraced by US and international federal funding agencies that are wary of large-scale change without assurances of long-term stability. The prospect of protracted litigation, on top of all the other challenges to forging, funding, and implementing a new Governing Entity in the three years prescribed, will surely push the timescale for this proposal well beyond the horizon of viability for the existing Maunakea Observatories.

Support for astronomy on Maunakea is a longstanding State policy going back more than fifty years. At that time, the State decided that it did not want to just be a passive landlord for the best observatories in the world but that Hawai‘i should be the home of a world-class program of astronomy research and education. This has enabled Hawai‘i to participate in and lead the discoveries that underlie human understanding of the origins of the universe and the celestial
bodies around us. It is not an overstatement to say that what is at risk here is the future of astronomy as a field of human inquiry, as a source of economic activity on Hawai‘i Island, as an inspiration for Hawai‘i’s youth, as a source of pride for the people of Hawai‘i, and as an area of international excellence for UH and our students. Consistent with its place in Hawaiian cultural tradition and cosmology, Maunakea stands as a uniquely treasured scientific and community resource.

3. The complexities and costs of managing access to public lands have been underestimated

Under the proposed powers and duties in the Report, public access appears to be more restrictive and does not reflect the wide variety of values the broader community holds towards Maunakea, including recreational, subsistence, educational, and economic (including commercial tour operator) uses. Does the MKWG propose to prohibit snow play? Hunting? Hiking? Who would determine the legitimacy of claims made by individual native Hawaiian cultural practitioners?

Access to Maunakea by Hawai‘i Island residents, including native Hawaiian practitioners, is one of the most consistently raised concerns in matters related to Maunakea. The Report’s proposal appears to be more restrictive and may not reflect the wide variety of values the broader community holds towards Maunakea, including recreational, subsistence, educational, and commercial uses. For example, the Report states on pages 24 and 26:

“The Working Group recognized that the scope of managing an area of such important cultural significance and geographic size presents many challenges. Additionally, because Mauna a Wākea is the kuahiwi, or backbone, of Hawai‘i Island in a structural, physical, and spiritual sense, the Governing Entity should work toward decreasing the human footprint of all users and visitors of Mauna a Wākea.” (Emphasis added); and,

“The Governing Entity shall establish a management framework guided by the Kumu Kānāwai to manage access, stewardship, education, research, permitted uses for frequent and seasonal users, and overall operations. The Governing Entity shall also prohibit commercial use and activities (not including astronomy) above Hale Pohaku and develop rules to designate areas for permissible use, including defining “commercial use.”; and,

“The Governing Entity shall consider restrictions via applications and registration processes to ensure user compliance. Additionally, the Governing Entity shall require an application for all recreational uses, including fees, and create guidelines on limits by monitoring the impacts of recreational use over time.”

In 2020 Governor Ige approved Hawai‘i Administrative Rules (“HAR”) Chapter 20-26 which was developed by the University with significant public input received over multiple years, to be able to enforce our stewardship responsibilities. HAR Chapter 20-26 regulates commercial and public activities on Maunakea lands managed by UH. The rules allow activities subject to the impacts of those activities being addressed. Commercial activities, such as commercial tours, are regulated by permit and operators are required to pay for the impact they have on the resources and for use of public facilities. Commercial tour operators provide a needed service by reducing independent vehicles driving up Maunakea, and this activity provides economic opportunities for the local community. Under HAR 20-26 the University is authorized to levy fees and fines with the opportunity for appeal. The University regulates impacts to resources
caused by public and commercial activities, not native Hawaiian cultural practices. And despite vague criticisms to the contrary, the University has never denied access to native Hawaiian cultural practitioners.

Finally, the Report does not meaningfully address the resource requirements of the new Governing Entity. Annual operating costs for stewardship alone are $12M, the majority of which is covered by extramural and non-general funds generated by the University. In addition, the University provides world-class global network connectivity for all Maunakea Observatories so that the data collected on the mountain can be shared with researchers and students at institutions around the world. Under the new management regime being recommended, absent other sources of revenue because of the uncertainty created about future access and use, a substantial investment by the State will be required to support a new stewardship program that would have jurisdiction for significantly more land than the current program.

4. Legal, administrative, and funding issues present risks for implementation of the MKWG’s proposal

There are a number of legal, administrative, and funding concerns raised by the MKWG’s proposal that will require further analysis and debate. These include but are not limited to:

A. The potential constitutional concerns related to race-based membership of a government entity with control over state lands and resources.

While we understand the intent, the designation of members of a state entity by race raises state and federal constitutional questions. Note that the Kaho'olawe Island Reserve Commission (HRS § 6K-5) and the burial council (HRS § 6E-43.5), both referenced in the Report, do not limit seats on its boards to “native Hawaiians.” Instead, for example, burial councils are comprised as follows:

“Regional representatives shall be selected from the Hawaiian community on the basis of the representatives’ understanding of the culture, history, burial beliefs, customs, and practices of native Hawaiians in the region they each represent.”

We acknowledge that other agencies have board compositions where seats are explicitly designated for native Hawaiians. For example, the Hawaiian Homes Commission Act § 202(a) provides that “at least four of the members shall be descendants of not less than one-fourth part of the blood of the races inhabiting the Hawaiian Islands previous to 1778.” And, the Papahānaumokuākea Council Charter provides that members shall include “three Native Hawaiian representatives.” However, the purposes of those bodies are distinctly different from the new Governing Entity. DHHL was established specifically for the benefit of native Hawaiians and Papahānaumokuākea is an interagency management collaborative where individual partners do not cede their jurisdiction to the collaborative. Board composition tied to race should be further evaluated, particularly when the authority of the new Governing Entity is to manage public lands and state resources.

B. The Report does not account for the complexity of the various jurisdictions on Maunakea, and the variety of funding sources that will need to be shored up, or replaced with general funds.
i. Public lands should remain with the State for the benefit of the public.

On page 24 of the Report, the MKWG states:

“The public land trust lands held by the Governing Entity shall be held in trust as part of the public land trust; provided that the State shall transfer management and control of the lands to a sovereign Native Hawaiian entity upon its recognition by the United States and the State of Hawai‘i”

This language mirrors Hawai‘i Revised Statutes § 6K-9, related to the Kaho‘olawe Island Reserve Commission. However, Maunakea is not Kaho‘olawe. While both are culturally significant, unlike Kaho‘olawe, Maunakea is actively used by the Hawai‘i Island community, including native Hawaiians, researchers, and others from across the state. These are ceded government lands that should remain with the State of Hawai‘i for the five (5) stated purposes under section 5(f) of the Admission Act.

ii. The Report’s proposal to expand the land area under a new Governing Entity adds uncertainty and complexity to an already complex management issue.

The Report recommends a significant expansion of currently managed lands, pulling in private lands and other state lands managed under different laws as follows:

“the jurisdiction area for the Governing Entity shall be state-owned lands above the 6,500 foot elevation line, inclusive of Pu‘u Huluhulu to the summit of Mauna a Wākea, in order to care for Mauna a Wākea through an integrated, whole systems approach. Additionally, for lands outside of its jurisdiction, the Governing Entity shall enter into cooperative management agreements with the Department of Hawaiian Home Lands, County of Hawai‘i, and private landowners whose lands are within the jurisdiction area.”

Conservative estimates of this expansion could include approximately 56,000 acres of DHHL property, and more than 50,000 acres and 3,800 acres designated as DLNR Forest Reserve (“FR”) and Natural Area Reserve (“NAR”) land, respectively, in addition to other unidentified state, county, and privately owned lands that are referenced. The Report does not provide any details on how the new entity will manage state and private lands, and it is unclear what is meant by the new Governing Entity having jurisdiction over adjacent private lands as proposed in the Report. The Report discusses the idea of cooperative agreements but there could be significant property right issues raised through this expansion.

iii. Powers and duties of the new Governing Entity are unclear and already exist.

Existing plans and rules developed and implemented by the University and DLNR over decades of learned and practiced management provide the integrated planning and decision-making framework suggested in the Report.
Chapter 3 of the Report details the powers and duties of the new governing entity on pages 24-25. Among other matters, it states that:

“…the Governing Entity shall develop a single plan that dictates the management of land uses; human activities, uses, and access; stewardship; and disposition. The plan shall be developed during the transition period; finalized and approved, and operational by the end of the transition period; and updated every ten years with a focus on long-term, comprehensive, coordinated planning for all of the managed lands. Additionally, the plan shall consider the state’s energy and sustainability goals, as well as impacts to climate change, including adapting to climate change and developing mitigation measures to climate change, and shall incorporate indigenous management and cultural processes and values.”

Before updating of the master plan for lands managed by the University on Maunakea, the University explored the idea of combining its two governing documents: the master plan adopted by BOR and the CMP adopted by BLNR. Based on the University’s assessment, in consultation with DLNR, we determined that combining them may not be practicable.

Both plans are implemented together and are consistent; however, each serves a different purpose. The CMP is a plan required when applying for a conservation district use permit. It addresses ongoing resource management practices to avoid, mitigate, or minimize impacts caused by proposed uses and activities. The master plan is the University’s vision for the lands it manages on Maunakea for a period of years, and it provides a framework for proposed land uses and decision making early in the planning process before a proposal is advanced to permitting, environmental review, and funding consideration. The University’s master plan and CMP, along with the administrative rules, collectively are required to achieve the state’s long-term goals of stewardship and sustainability.

Chapter 3 of the Report also provides that the new governing entity must comply with various statutes applicable to state agencies, but suggests that Maunakea lands be placed in the FR. On page 25 of the Report, it states:

“To maximize transparency, the Governing Entity shall be subject to administrative procedure pursuant to chapter 91, Hawaii Revised Statutes; Sunshine Law, pursuant to chapter 92, Hawaii Revised Statutes; the State Procurement Code, pursuant to chapter 103D, Hawaii Revised Statutes; and chapters 183, 205, 205A, and 343, Hawaii Revised Statutes.”

The Report suggests that these lands should be subject to HRS chapter 183, Forest Reserves, Water Development, Zoning. Lands designated FR will be subject to the rules and program under DLNR’s Division of Forestry and Wildlife (“DOFAW”). FR rules are far more restrictive generally than conservation district rules (e.g., it is unlikely that astronomy facilities would be allowed in the FR).

Building capacity to operate under HRS chapter 91, the Hawai’i Administrative Procedures Act (“HAPA”), takes time, staff, and resources. HAPA covers rule making, contested cases, and declaratory orders. The Report does not provide
detail on these resource-intensive requirements. These regulatory frameworks are needed, if as the Report suggests, the new entity will have more enforcement authority than the University currently has. The Report states on pages 26-27:

“The Governing Entity shall work with the Department of Land and Natural Resources’ Division of Conservation and Resources Enforcement and Hawai‘i County Police enforcement structure to enforce rules and monitor public safety through cooperative agreement. Additionally, the Governing Entity shall create operational procedures that are guided by the Kumu Kānāwai and implemented by enforcement partners.”

The Report is unclear on how new rules and procedures it adopts would integrate with existing rules governing activities on DLNR, DHHL, private, and other government lands included in the new land area defined in the Report. It is also unclear what the statement “…guided by the Kumu Kānāwai and implemented by enforcement partners” means to people who would visit Maunakea, such as Hawai‘i Island residents, including native Hawaiians.

The University already has administrative processes and procedures in place. It already works under the sunshine law, procurement, HRS chapter 343, and other agency regulations related to land use. These processes have been scrutinized and tested by internal audits, state audits, DLNR oversight, and Hawai‘i courts. How these matters are proposed to be handled directly impacts the viability and resource needs of the new entity.

C. The adequacy of stakeholder representation on the board of the new Governing Entity.

The Report recommends the establishment of a new attached state agency governed by a board of directors: On page 22, the Report states:

“The Governing Entity shall be attached to the Office of the Chairperson of the Board of Land and Natural Resources for administrative purposes. Decision-making for the Governing Entity shall be made by a nine-member board, of which seven seats shall be appointed and two seats shall be held by ex-officio members, with the board selecting a Chair from among its non-ex-officio members; provided that the Chair shall not be the Executive Director of the Governing Entity. Additionally, of the nine members, four of the seven non-ex-officio board members shall be Native Hawaiian Hawaii Island residents, with a preference for Native Hawaiian Hawaii Island residents for all seven non-ex-officio board seats.”

While the University agrees that broad representation on the governing board of a state land management entity is needed to ensure the range of perspectives Maunakea deserves, key expertise is lacking from the proposed structure, including seats for observatory and University representatives.

The MKWG’s lack of consensus for having astronomy representation and for eliminating University representation on the governing entity board is problematic. The Report argues that this would create a potential conflict of interest. First, it is not uncommon to have tenant and stakeholder representation on governing boards of attached state agencies. For example, the Natural Energy Laboratory of Hawai‘i (“NELHA”) maintains
two seats on its board of directors for tenants who hold direct leases from the agency. Second, every board, public and private, deals with conflicts of interest through reporting and recusal procedures, so this alone is not sufficient reason to omit these important perspectives especially if they are a primary source of funding stewardship activities.

By contrast, the University’s management framework includes community advisory groups, such as Mauna Kea Management Board (“MKMB”) and Kahu Kū Mauna (“KKM”) who have early and direct input into the decision-making process. Additional committees that advise the MKMB, like the Environment Committee (“EC”), provide additional, specific expertise. All of these advisory groups include Hawaiʻi Island members who are directly impacted by decisions on Maunakea.

D. Working through the aforementioned complexities of realigning, much less simply coordinating, management of public lands that are currently under the jurisdiction of different agencies, subject to different administrative rules, appear to have been underestimated, like the time for of start-up and amounts of funding.

The details of the University’s concerns here were outlined in section B(iii) above. The processes for working through the challenges of multiple jurisdictions are already in place so further analysis should be performed to discern the cost of duplication or replication of these processes, as compared with any purported benefit.

Each of these issues is itself complex, and any one of them is a potential show stopper given the contentious nature and resources required of them. Attaching the success of a newly established entity to highly speculative outcomes requires considerable more analysis before even attempting to draft legislation.

5. The University’s commitment and ability to successfully to steward Maunakea has been demonstrated

While not explicitly stated in the Report, the rationale for the formation of the MKWG, and the need to establish a new governing entity, appears to be based on the assumption that a new entity could manage Maunakea better than the University. This assumption seems to be based on a snapshot of reports that evaluated the University’s management over the years as well a lack of recognition of the University’s own efforts and response to the University’s critics.

A. State audits of the University’s management of Maunakea show improvement over time

The Report on page 3 cites a series of State Audits that began in 1998 and concludes with the statement that “Subsequent reports, which still identified shortcomings, were filed by the State Legislative Auditor’s office in 2005, 2014, 2017, and 2019.” The University has acknowledged and apologized for its stewardship of Maunakea in the last century, but subsequent state audits of the University’s management of Maunakea have documented our commitment and improvement over time.

In its Report on the Implementation of State Auditor’s Recommendations 2014 – 2017, the State Auditor noted that of the several audit recommendations from 1998, only four (4) were outstanding as of its November 2019 report. One item, directly under the control of the University, was completed with the University Board of Regents’ (“BOR”) adoption of Hawai‘i Administrative Rules (“HAR”) chapter 20-26 on November 6, 2019 (approved by the governor on January 13, 2020).
The University is actively working on the remaining three (3) items in coordination with DLNR, which has final approval on these particular tasks. These three (3) items are:

i. “The University of Hawai‘i should renegotiate with existing sublessees to amend subleases to include provisions that address stewardship issues, as modeled by the provisions in the 2014 TMT sublease, following execution of the new general leases for UH-managed lands on Mauna Kea”;

ii. “The Department of Land and Natural Resources should continue working with UH to renew the general leases for the UH-managed lands on Mauna Kea and ensure the leases are substantially in the form DLNR’s Land Division recommended for approval by the land board”; and

iii. “The Department of Land and Natural Resources should use additional stewardship-related conditions contained within the TMT observatory permit as a template in all new observatory permits issued for the summit of Mauna Kea.”

The timeline on the first two of these audit items is affected by challenges brought by the Office of Hawaiian Affairs (“OHA”) and other groups who oppose TMT in several ongoing administrative and judicial appeals. If the Board of Land and Natural Resources (“BLNR”) grants the University another general lease, then BLNR must approve the first two items, which the University intends to comply with. The third audit item regarding whether BLNR grants a new astronomy facility conditional use permits is not within the University’s control.

These audit findings show the significant progress the University has made over time in fulfilling its management responsibilities. Reliance on those past audits as a measure of the University’s recent or current performance is no longer valid, and the past audits do not support taking the management away from the University. Instead, those audit reports confirm that the University has learned from its decades-long management and improved based on that experience.

B. The Independent Evaluation of University’s implementation of the CMP was positive in most all areas, and the University has made changes to improve the few areas marked for improvement

The University is charged with implementing 103 management actions in the Mauna Kea Comprehensive Management Plan, adopted by BLNR in 2009 (“CMP”). The University’s implementation of the CMP was the subject of an independent review conducted by Kuiwalu in December 2020 at the direction of DLNR (“Independent Evaluation”).

The Report picked up on some aspects of the Independent Evaluation; however, it is important to consider the actual text of the Independent Evaluation. As stated in the Independent Evaluation:

“The purpose of this Independent Evaluation Report (Report) is to (1) evaluate the effectiveness of UH, specifically OMKM’s, implementation of the specific Management Component Plans (MCP) found in Section 7 of the CMP, and (2) to evaluate the efficiency of the governance structure in managing the cultural and natural resources within state conservation lands under lease to UH.”
The Independent Evaluation offers the following conclusions:

i. “UH’s self-assessment and many of the public comments which included members of the Native Hawaiian community and government agencies, have acknowledged that OMKM has implemented most of the 103 MAs within the MCPs. Many have commented that OMKM has effectively implemented many of the MAs that have resulted in protecting and preserving the cultural and natural resources within the state conservation lands.”

ii. “[I]n the areas of untimely adoption of the administrative rules, cultural resources, and education and community outreach, especially with the Native Hawaiian stakeholders, the efforts by OMKM have been ineffective to achieve the desired outcome.”

It is important to note regarding the above conclusions that:

i. At the time of the Independent Evaluation, HAR chapter 20-26 was adopted by BOR and approved by the governor. The University is currently implementing the rules. Before BOR adopted the rules (which it was granted authority to adopt in 2009 under Act 132), the University was continuously implementing the 103 CMP management actions, administering commercial tour operator permits, and coordinating on enforcement related to resources and public health and safety with entities like DLNR and its various programs\(^2\) and county first responders.

ii. Outreach to the Hawai‘i Island community, including native Hawaiians, has been a mainstay of University management on Maunakea, and it is built into its management framework. This includes outreach through advisory groups like KKM\(^3\) and the MKMB\(^4\) as well as local schools, community groups, businesses, native Hawaiian faculty, lineal descendants, and those who identify as kia‘i. The recent adoption of HAR chapter 20-26 and the on-going work finalizing the new master plan include significant efforts by the University to capture community input, resulting in thousands of comments and dozens of meetings with interested groups. All substantive comments were considered, which the University has documented in its rulemaking process and the new master plan Volume II.

iii. There has always been an education component for the public and community outreach conducted by the University and directly by the Maunakea observatories. The University’s recent reorganization furthers this work by designating the ‘Imiloa Astronomy Center for orientation programs and educational partnerships by BOR resolution and executive policy.

The Independent Evaluation **did not conclude that UH has “mismanaged” Maunakea**, a term often used against the University. Here is how the Independent Evaluation discusses “mismanagement”, only once and quoted in full:

“The public’s assessment of how effectively UH has implemented the CMP has primarily varied depending on whether they are in favor or opposition of

\(^2\) For example the State Historic Preservation Division, Division of Conservation and Resources Enforcement, Division of Forestry and Wildlife, Office of Conservation and Coastal Lands, etc.

\(^3\) Comprised of individuals knowledgeable about native Hawaiian cultural practices who advise the MKMB.

\(^4\) Composed of members representing the major stakeholders of Maunakea; primary role is to advise the Office of the Chancellor at the University of Hawai‘i at Hilo on management of the Mauna Kea Science Reserve.
telescope development on Mauna Kea. Those who support existing and future telescope development on Mauna Kea believe that OMKM has adequately implemented the CMP MAs to preserve and protect the cultural and natural resources on Mauna Kea. **For those who do not support continued telescope development on Mauna Kea beyond 2033, the expiration of the existing state lease, they believe that UH continues to mismanage Mauna Kea as concluded in the 1998 State Auditor’s Report. In particular, those in opposition believe that UH continues to advocate telescope development over the protection and preservation of the resources.**

*With respect to the broader public comments on the effectiveness of the UH governance structure, most see UH as one entity. They either believe that the UH existing structure is doing a good job, or they believe that UH is mismanaging Mauna Kea and there is very little in between.*

(Emphasis added.)

It should be noted that the University’s newly issued draft Master Plan establishes a limit of nine telescopes post 2033. It also restricts future development to existing observatory sites. The University committed to these limits despite considerable differences with astronomy advocates.

C. The University and its advisory groups take constructive criticism seriously.

At the direction of the BOR, in April 2020, the University completed an analysis of alternative governance models that included models in which the University did not serve as primary manager. The analysis evaluated the benefits and challenges of establishing the various forms of new entities identified (see BOR Presentation [4.16.20]). In the University’s analysis of governance models, the University concluded that three (3) years is not sufficient time to transfer legal rights under existing agreements, staff, resources, programs, plans, policies, and other elements of the University management program and apparatus to a new, yet-to-be-formed entity. Given the need for bicameral legislative support and based on past legislative efforts, they University determined it would take several years for the enabling legislation to be passed to form the new entity. This short timeline also does not account for the approvals required for a new master plan, management plan, permits, administrative rules, general lease, and observatory subleases, and for developing a viable business plan that ensures the new entity’s sustainability.

As a result, the University has focused its attention on the governance alternative within its control and broadened community representation within its existing advisory groups. In 2021, the EC increased its membership, bringing different expertise and perspectives to its committee. KKM updated its purpose statement and is actively recruiting new members to reflect their renewed vision. The voices on the EC and KKM are diverse and include members who share some of the views of Hawai‘i Island kia‘i.

At their December 7, 2021 public meeting, the MKMB passed a motion recommending that the University administration restructure MKMB along the lines of what was identified as Model 4A, Collaborative Management with UH, in the University’s analysis of governance models. Model 4A expands the current MKMB from seven to nine members; designates ex-officio seats on the MKMB for DLNR, DHHL, OHA, and the
County of Hawai‘i; and redistributes representation of the remaining seats to include various stakeholder interests.

In many ways, the MKWG’s recommended structure parallels what the University is in the process of implementing except that the University and astronomy are represented.

D. Tangible demonstration of the University’s commitment to stewardship

Annual operating costs for stewardship alone are $12M, the majority of which is covered by extramural and non-general funds generated by the University. In addition, the University provides world-class global network connectivity for all Maunakea Observatories so that the data collected on the mountain can be shared with researchers and students at institutions around the world. Under the new management regime being recommended, absent other sources of revenue because of the uncertainty created about future access and use, a substantial investment by the State will be required to support a new stewardship program that would have jurisdiction for significantly more land than the current program.

The fruits of the University’s efforts to improve its stewardship have been recognized by the community. In 2017 UH received the Pualu Award from the Kona-Kohala Chamber of Commerce for its education and outreach. In 2017 UH received a Preservation Commendation Award from the Historic Hawai‘i Foundation for its interpretative efforts. And in 2016 UH received the Pualu Award for Environmental Awareness from the Kona-Kohala Chamber of Commerce. Finally, and perhaps most notably, in 2011 the Wekiu Bug was removed from endangered species candidate list because of the University’s ecosystem restoration efforts.

In closing, the University should be judged by our complete record which shows substantial improvement over time across multiple dimensions. Our commitment has been reliably demonstrated in time, effort, and resources committed by us over the years in the exercise of our stewardship responsibilities for the privilege of access we have. And as a result, as reported by many in the Independent Evaluation “…the cultural and natural resources on the state conservation lands on Mauna Kea are some of the best managed and protected lands in the entire State” and we have a world class research enterprise Hawai‘i can be proud of.
16 WRITTEN TESTIMONY RECEIVED FOR JANUARY 20, 2022, BOARD OF REGENTS MEETING
Mauna Kea

james smithson <nobodyatjhs@gmail.com>  
To: bor.testimony@hawaii.edu  
Fri, Dec 17, 2021 at 2:05 PM

Before Mauna Kea - flyer.pdf  
138K
**Before Mauna Kea**  
**Astronomy in Hawaii, Ancient to Modern Times**  
Michael Chauvin

Chapter Titles

1. Astronomy in Ancient Hawaii  
2. Finding the Longitude: Hawaii’s First Astronomical Observatory  
3. Astronomy and Destiny: The Murder of William Gooch  
4. Longitude in a Lifeboat: 43 Days to Laupahoehoe  
5. Astronomy by the Book: The Missionaries and their Message  
6. Denison Olmsted: *The Rudiments of Natural Philosophy and Astronomy*  
7. Astronomers for Hire: The Amateur, the Professional, and the Professor  
8. A Transit of Venus and a Transient Romance  
9. A Transit of Venus and a Trace of Wit  
10. Telescopes, Martians, and the Man in the Moon  
11. Once Upon a Time: From Sabbath Bell to Sidereal Clock  
12. Astronomy for a King: His Majesty and His Legacy  
13. Astronomy for a Queen: Looking for Latitude at Waikiki  
15. Astronomy for Everyone: *Palapala* at the Hawaii State Library  
16. Falling Stars: The Honolulu and Palolo Valley Meteorites  
17. Rising Stars: The Bishop Museum Planetarium and Observatory  
18. New Stars: From Astrophysics to Astrobiology  
19. Stars and Stripes: New Weapons for Old Glory

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About the author: Educated at the universities of Michigan, Hawaii, Harvard, and Cambridge, Michael Chauvin has taught astronomy at the University of Hawaii at Hilo, been a Lecturer at the Bishop Museum Planetarium in Honolulu, a Resident Scholar at the Dibner Library of the History of Science and Technology at the Smithsonian Institution in Washington, DC., and the recipient, through the American Astronomical Society, of two NASA-funded research awards. He is a founding member of the Inter-Union Commission for the History of Astronomy – an international body formed in 2001 by the International Astronomical Union (IAU) and the Division of History of Science of the International Union for History and Philosophy of Science (DHS/IUHPS) to represent the interests of professional historians of astronomy worldwide.

Testimony on The Master Plan for Maunakea Management

Jimmy Kuroiwa <kuroiwaj@earthlink.net>
To: bor.testimony@hawaii.edu

David Lassner, President
University of Hawaii
Board of Regents
Subject: The Master Plan for Maunakea Management

We submit, as a reminder for the Board of Regents, that the purpose of the Maunakea Management Master Plan is for the only stakeholders, citizens of the State of Hawaii, the “One Larger group of Hawaiians”.

The Purpose of “the Comprehensive Management Plan (CMP) provides a management framework for the University of Hawaii (UH) to address measures to protect the cultural, natural, and scientific resources on UH Managed areas on Maunakea.”

We know that the United States Congress has never adopted in law the Kanaka Maoli (ethnic Polynesian Hawaiian) as an Indigenous People of the Islands of Hawaii.

The science, the law, and the history present the truth from its first visitor –settler from Polynesia arriving about 1219 CE through 1266 CE to the Islands of Hawaii. Their ancestors, followed by other visitor – settlers, became the “One Larger group of Hawaiians” which is a blend of many ethnic groups comprising the State of Hawaii’s current citizens.

These visitor - settler constitute the “All” in the July 4, 1894 Republic of Hawaii’s Constitution, and which was incorporated in the April 30, 1900 Organic Act (The Act to Provide a Government for the Territory of Hawaii). The only “Hawaiian” identified in the Organic Act under:

“Article 1 §4. all persons who were citizens of the Republic of Hawaii on August twelfth, eighteen hundred and ninety-eight, are hereby declared to be citizens of the United States and citizens of the Territory of Hawaii.

“And all citizens of the United States resident in the Hawaiian Islands who were resident there on or since August twelfth, eighteen hundred and ninety-eight and all the citizens of the United States who shall hereafter reside in the Territory of Hawaii for one year shall be citizens of the Territory of Hawaii.”

This"One Larger group of Hawaiians” includes all ethnic groups as “Hawaiians” or “Native Hawaiians” as the Law which was understood throughout the history of the Islands of Hawaii.

Supreme Court of the United States; Rice v. Cayetano, Governor of Hawaii; Certiorari To The United States Court Of Appeals For The Ninth Circuit; No. 98 — 818. Argued October 6, 1999 – Decided February 23,2000: Held: Hawaii’s denial of Rice’s right to vote in OHA trustee elections violates the Fifteenth Amendment. Pp. 15 — 28.

Attached is a copy of our testimony supporting the TMT on Maunakea submitted on July 16,2020.

Thank you,

/s/

James I. Kuroiwa, Jr.
Hawaii LECET Director (Retired)

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Email: kuroiwaj@earthlink.net (mailto:kuroiwaj@earthlink.net)

Attachment:

[2020 Jul 16 University of California System.docx (mailto:2020 Jul 16 University of California System.docx)]
Subject: Testimony in SUPPORT of the Thirty Meter Telescope (TMT) on Mauna kea, Hawaii.

James I. Kuroiwa, Jr. Director Hi LECET (Ret.) LIUNA Local 368

Appointed by President George W. Bush and served two terms on the Hawaii State Advisory Committee of the U.S. Civil Rights Commission. (2007 through 2011). President and RME of Mahana Landscaping, Inc. (Hawaii Island Projects: Hyatt Regency (Hilton) at Waikoloa; The Ritz Carlton (The Orchids) at Mauna Lani; Hapuna Beach Resort; The Four Seasons at Kaupulehu; and other Kona projects from 1985 through 1998). Served as the 81 mm Mortars Section Leader with the 100th Battalion/442nd Infantry USAR (1964 to 1971) and 1st/502nd Ambl 101st Abn I Corps Vietnam (1969).

The Construction of TMT on Mauna kea is settled:

*The construction and operation of the TMT on Mauna kea is a settled issue. The Hawaii Supreme Court decided in the award of the “Notice to Proceed” to TMT through the State of Hawaii. The end results are for the TMT to complete its construction and to begin operations for the expansion of knowledge about our universe to share with the World.

Hawaii’s Governor Stalls:

*The operation of the TMT on Mauna kea will provide the World a clear vision into our Space and future. The TMT project was stalled because of a “Political” issue which has no standing with the Rule of Law. The TMT issue sits in the lap of the Governor of Hawaii, Governor David Ige, in allowing fake politics to reject science.

The “One Larger Class of Hawaii’s Citizens” support the TMT:

*The United State Senate Committee on Foreign Relations submitted Report No. 227 on the overthrow of Queen Liliuokalani to Congress on February 26, 1894, finding the U.S Military, Minister Stevens and Commissioner Blount not complicit in removing the Queen and her Cabinet by the Committee of Safety on January 17, 1893.

*The Senate Report was accepted by the full Senate and on March 5, 1894, by unanimous consent, approved by concurrent resolution to print of 6,000 copies of the Report to be distributed at 2,000 copies for the Senate, 4,000 copies to the House, with required copies for State Libraries, Universities, and States.
The American of Kanaka Maoli ancestry is not recognized by Congress as indigenous and they are a part of the “One Larger Class of Hawaiian Citizens”. The “One Larger Class of Hawaiian Citizens” consists of all ethnic class who are residents in the Islands of Hawaii as recognized in the July 4, 1894 Constitution of the Republic of Hawaii and the United States as described in the April 30, 1900 Organic Act.

Hawaii’s citizens recognize that Mauna kea is a special place, as is the entire State of Hawaii, with 92% of the citizens of the State of Hawaii supporting the TMT’s construction and operations, where both science and Hawaiian culture can exist on the summit.

The United States has never abused the Kanaka Maoli:

The United States legally and historically has never abused the Kanaka Maoli. The visitors from Polynesia were probably the first to make the Islands of Hawaii their home arriving between 1219 CE to 1266 CE.

The United States Congress on July 9, 1921 created and recognized, in conflict with the U.S. Constitution’s Fourteenth Amendment, the sub-group “native Hawaiian” in the Hawaiian Homes Commission Act. The sub-group “native Hawaiian” is the only Congressionally recognized citizen in addition to the “One Larger Class of Hawaiians Citizen” as in the Organic Act.

The Hawaii “Revisionists” attempts to change legal Hawaiian history:

Hawaii does recognize the existence of “Revisionists”, who are American’s of Kanaka Maoli ancestry, who continue attempts to change the legal and historical facts relating to the political evolution of the Islands of Hawaii to become the State of Hawaii. The “Revisionists” for the past one hundred twenty-six years attempted to avoid recognizing the July 4, 1894 adoption of the Republic of Hawaii’s Constitution, that replaced the 1887 Kingdom Constitution.

Hawaii’s Ceded Lands is owned by the State of Hawaii in absolute fee:

The Ceded Lands issue is also settled law, as decided by the U.S. Supreme Court on March 31, 2009 in the Hawaii v. OHA case. The U.S. Supreme Court stated clearly; “The Apology Resolution did not strip Hawaii of its sovereign authority to alienate the lands the United States held in absolute fee and granted to the State upon its admission to the Union.”

The United States Federal Courts; The Court of Claims on May 16, 1910; the Supreme Court on February 23, 2000 and on March 31, 2009, decided after a complete review of legal historical documents and cross examination of witnesses the constitutional outcomes of each case. The “Revisionists” have continued to revise and amend the intent of those decisions on Crown Lands, on the “One Larger Class of Hawaiian Citizen”, and on the Ceded Lands.

Ward Research Inc. polling result for TMT released on May 28, 2020:
According to the TMT-commissioned poll conducted by Ward Research, Inc., approximately 61% of residents want construction to move ahead, while 32% are opposed.” Also, “92% of people think there’s a way for both science and Hawaiian culture to exist on the summit.” And, “The poll surveyed roughly 500 people who are representative of the ethnicity, gender and island-by-island population of Hawaii. About 22% were of (Native Hawaiian) Americans of Kanaka Maoli ancestry.”

The United States invests and develops its Space Force:

*The establishment of the United States Space Force (USSF) that will be overseen by GEN Charles Q. Brown Jr., who was recently nominated to be Chief of the United States Air Force. “The Mission: The USSF is a military service that organizes, trains, and equips space forces in order to protect U.S. and allied interests in space and to provide space capabilities to the joint force USSF responsibilities include developing military space professionals, acquiring military space systems, maturing the military doctrine for space power, and organizing space forces to present to our Combatant Commands.” The USSF must become a working partner with the TMT, the University of Hawaii, and all other TMT Partners throughout the Free World to maintain World peace.

Thank you,

/s/

James I. Kuroiwa, Jr.

47-327 Mawaena Street
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Email: kuroiwa@earthlink.net
July 16, 2020
Subject: Testimony in SUPPORT of the Thirty Meter Telescope (TMT) on Mauna kea, Hawaii.
James I. Kuroiwa Jr.

References:

The July 9, 1868: U.S. Constitution 14th Amendment. “Section 1. All persons born or naturalized in the United States, and subject to the jurisdiction thereof, are citizens of the United States and of the state wherein they reside. No state shall make or enforce any law which shall abridge the privileges or immunities of citizens of the United States; nor shall any state deprive any person of life, liberty, or property, without due process of law; nor deny to any person within its jurisdiction the equal protection of the laws.”

The February 3, 1870: U.S. Constitution 15th Amendment. “Section 1. The right of citizens of the United States to vote shall not be denied or abridged by the United States or by any State on account of race, color, or previous condition of servitude.”

The February 26, 1894: U.S. Senate Committee on Foreign Relations Report No. 227 presented to Congress: The Congressional authorization to conduct the hearing, “whether any, and, if so, what irregularities have occurred in the diplomatic or other intercourse between the United States and Hawaii in relation to the recent political revolution in Hawaii, and to this end said committee is authorized to send for persons and papers and to administer oaths to witnesses.” The Senate Committee at the conclusion of the hearing, involving twenty-five (25) individual sworn testimonies and twenty-four (24) notarized individual statements, found the U.S Military, Ministers Stevens and Blount not complicit in the interference and the removal of the Kingdon of Hawaii’s Queen and her Cabinet by the Committee of Safety.

The July 4, 1894: Constitution of the Republic of Hawaii. “Article 17. - Citizenship. Section 1. All persons born or naturalized in the Hawaiian Islands, and subject to the jurisdiction of the Republic are citizens thereof.”

And, “Article 95. - Crown Land. - That portion of the public domain heretofore known as Crown Lands hereby declared to have been heretofore, and now to be, the property of the Hawaiian Government, and to be now free and clear from any trust of or concerning the same, and from all claim of any nature whatsoever, upon the rents, issues and profits thereof. It shall be subject to alienation and other uses as may be provided by law. All valid leases thereof now in existence are hereby confirmed.”

The July 7, 1898: Annexation of the Republic of Hawaii through the Newlands Resolution. “Resolved by the Senate and House of Representatives of the United States of America in Congress Assembled, That said cession is accepted, ratified, and confirmed, and that the said Hawaiian Islands and their dependencies be, and they are hereby, annexed as a part of the territory of the United States and are subject to the sovereign dominion thereof, and that all and singular the property and rights hereinbefore mentioned are vested in the United States of America.
“The existing laws of the United States relative to public lands shall not apply to such lands in the Hawaiian Islands; but the Congress of the United States shall enact special laws for their management and disposition: Provided, That all revenue from or proceeds of the same, except as regards such part thereof as may be used or occupied for the civil, military, or naval purposes of the United States, or may be assigned for the use of the local government, shall be used solely for the benefit of the inhabitants of the Hawaiian Islands for educational and other public purposes.”

**The April 30, 1900: Organic Act establishing the Territory of Hawaii.** “§4. Citizenship. That all persons who were citizens of the Republic of Hawaii on August twelfth, eighteen hundred and ninety-eight, are hereby declared to be citizens of the United States and citizens of the Territory of Hawaii.

“And all citizens of the United States resident in the Hawaiian Islands who were resident there on or since August twelfth, eighteen hundred and ninety-eight and all the citizens of the United States who shall hereafter reside in the Territory of Hawaii for one year shall be citizens of the Territory of Hawaii.”

**The May 16, 1910: Crown Lands is settled Law.** U.S. Court of Claims, Liliuokalani v. United States, 45 Ct. Cl. 418 decision. “Section 99 of the organic act of 1900 (31 Stat. L., 161) adopts substantially the same language. We have not entered into a discussion of the defenses predicated upon the above provisions of law, believing the case disposed of before we reached them. It is, however, worthy of note that the organic act of 1900 puts an end to any trust -- if the same possibly existed -- and the petition herein was not filed until January 20, 1910, more than six years thereafter.”

**The July 9, 1921: Hawaiian Homes Commission Act.** “§201. (a) That when used in this title:

(7) The term ‘native Hawaiian’ means any descendant of not less than one-half part of the blood of the races inhabiting the Hawaiian Islands previous to 1778;”

**The March 18, 1959: Admission Act approving Hawaii as the 50th State of the United States.** “§15. Territorial laws shall continue in force in the State of Hawaii: All Territorial laws in force in the Territory of Hawaii at the time of its admission into the Union shall continue in force in the State of Hawaii, except as modified or changed by this Act or by the constitution of the State, and shall be subject to repeal or amendment by the Legislature of the State of Hawaii, except as provided in section 4 of this Act with respect to the Hawaiian Homes Commission Act, 1920, as amended; and the laws of the United States shall have the same force and effect within the said State as elsewhere within the United States: Provided, That, except as herein otherwise provided, a Territorial law enacted by the Congress shall be terminated two years after the date of admission of the State of Hawaii into the Union or upon the effective date of any law enacted by the State of Hawaii which amends or repeals sit, whichever may occur first. As used in this section, the term ‘Territorial laws’ includes (in addition to laws enacted by the Territorial Legislature of Hawaii) all laws or parts thereof enacted by the Congress the validity of which is dependent solely upon the authority of the Congress to provide for the government of Hawaii prior to its admission into the Union, and the term ‘laws of the United States’ includes all laws or parts thereof enacted by the Congress that (1) apply to or within Hawaii at the time of its
admission into the Union, (2) are not ‘Territorial laws’ as defined in this paragraph, (3) are not in conflict with any other provision of this Act.”

February 23, 2000: The “One Larger Class of Hawaiian Citizen” Issue is settled Law. SCOTUS, Rice v. Cayetano (7 to 2) decision. “Held: Hawaii’s denial of Rice’s right to vote in OHA trustee elections violates the Fifteenth Amendment. Pp. 15 — 28. The State’s further contention that the limited voting franchise is sustainable under this Court’s cases holding that the one-person, one-vote rule does not pertain to certain special purpose districts such as water or irrigation districts also fails, for compliance with the one-person, one-vote rule of the Fourteenth Amendment does not excuse compliance with the Fifteenth Amendment.”

SCOTUS, Rice v. Cayetano decision. “The agency administers programs designed for the benefit of two subclasses of Hawaiian citizenry, ‘Hawaiians’ and ‘native Hawaiians.’ State law defines ‘native Hawaiians’ as descendants of not less than one-half part of the races inhabiting the Islands before 1778, and ‘Hawaiians’ – a larger class that includes ‘native Hawaiians’ – as descendants of the peoples inhabiting the Hawaiian Islands in 1778.” The State of Hawaii’s 1978 amendment’s definition of “Hawaiians” conflicts directly with the definition of the Hawaiian citizen as written in the Republic of Hawaii’s Constitution and adopted by the April 30, 1900 United States Organic Act.

March 31, 2009: Ceded Lands Issue is settled Law. SCOTUS, Hawaii v OHA (9 to 0) decision. “117 Haw. 174, 177 P. 3d 884, reversed and remanded. ALITO, J., delivered the opinion for a unanimous Court. When a state supreme court incorrectly bases a decision on federal law, the court’s decision improperly prevents the citizens of the State from addressing the issue in question through the processes provided by the State’s constitution. Here, the State Supreme Court incorrectly held that Congress, by adopting the Apology Resolution, took away from the citizens of Hawaii the authority to resolve an issue that is of great importance to the people of the State. Respondents defend that decision by arguing that they have both state-law property rights in the land in question and “broader moral and political claims for compensation for the wrongs of the past.” Brief for Respondents 18. But we have no authority to decide questions of Hawaiian law or to provide redress for past wrongs except as provided for by federal law. The judgment of the Supreme Court of Hawaii is reversed, and the case is remanded for further proceedings not inconsistent with this opinion. It is so ordered. No. 07-1372.”

October 31, 2018: Hawaii’s Supreme Court on October 31, 2018 upheld by a 4 – 1 vote the construction permits of the consortium building the Thirty Meter Telescope (TMT) on Mauna Kea.

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Copies Forwarded:

The Honorable David Ige, Governor,  
State of Hawaii,  
Executive Chambers, State Capitol,  
Honolulu, Hawaii 96813

Mayor Harry Kim  
County of Hawaii  
25 Aupuni Street,  
Hilo, HI 96720

David Lassner, President  
Office of the President  
Bachman Hall 202  
2444 Dole Street  
Honolulu, HI 96822

Brian Lee, Director  
Hawaii LECET FUND  
650 Iwilei Road, Suite 285  
Honolulu, HI 96817
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Linda Frutoz-Gill

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
lfrutg@msn.com

Board of Regents Agenda Item (required) *
BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)

Your Position (required) *
Support

Your Testimony/Comments

Your Testimony (pdf or word)
No file attached
Page 1597
**Public Testimony Form - University of Hawaii Board of Regents**

*Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.*

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<tr>
<th><strong>Your Name (required)</strong>*</th>
<th>Ben Mai</th>
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<td><strong>Your e-mail address (in case we need to reach you)</strong>*</td>
<td><a href="mailto:bmai@hawaii.edu">bmai@hawaii.edu</a></td>
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<td><strong>Board of Regents Agenda Item (required)</strong>*</td>
<td>BOR IV.A. Informational Update on Maunakea Management</td>
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<td>Oppose</td>
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<td><strong>Your Testimony/Comments</strong></td>
<td>No TMT on Mauna Kea! Respect for native lands is much bigger than astronomy!</td>
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<td><strong>Your Testimony (pdf or word)</strong></td>
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</table>
I support the construction of TMT on Mounakea

Gideon Clark <konagideon@gmail.com>  
To: bor.testimony@hawaii.edu  
Sat, Dec 18, 2021 at 7:55 AM

Hello to whom it may concern,

My name is Gideon Clark I have lived in Hawaii all my life and am 8% native Hawaiian. Even though I do not practice the Hawaiian religion I have learned and practiced my Hawaiian culture throughout my life.

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best-managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

I wish my more vocal native Hawaiians did not wish so strongly to hinder the progress and development of technologies like the TMT from coming to Hawaii. I believe it is an honor to be selected as a site for such an amazing achievement.

Sincerely,
Gideon Clark
I am in favor of building the TMT on Mauna Kea. I believe as a member of the human species, we have always striven for knowledge throughout our history on this earth. We need TMT to broaden our knowledge and understanding of the universe of which we are a part.

We must acknowledge and honor our Hawaiian history, also. We must use the very best site for TMT as outlined by all leading experts in astronomy. To do any less would be a tragic error in our efforts to gain insight into the universe we live in.

Thank you.
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Chantell Cambia

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
cjcambia@hawaii.edu

Board of Regents Agenda Item (required) *
BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *
Oppose

Your Testimony/Comments

Dear UH Board of Regents,

My name is Chantell and I am a resident of O'ahu, Hawai‘i. I am requesting you revoke this Master Plan on Mauna Kea. You are neglecting the last 4-5 years of protests against any commercial project done on Mauna Kea by Native Hawaiians and locals. It is especially the many decades Native Hawaiians protested against anything being built on Mauna Kea and all stolen Hawaiian land. The various commercial projects like the number of telescopes built on Mauna Kea have also had reports of contamination due chemical substances spilled into the land. No commercial project will ever be built on Mauna Kea nor any other stolen...
Hawaiian land. Stop prioritizing making capital from this commercial project plan. Revoke this Master Plan now!

Sincerely,

Chantell Cambia

Your Testimony (pdf or word)

No file attached
Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
JOHN P BEGG

Your Organization (optional)
SELF

Your e-mail address (in case we need to reach you) *
jbeyhi@yahoo.com

Board of Regents Agenda Item (required) *
OTHER

OTHER (Please describe) *
General statement of responsibility

Your Position (required) *
Support

Your Testimony/Comments
Remove all unused equipment and restore the landscape to the approval of the Hawaiian community.
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Sadie Sarkissian Eckart

Your Organization (optional)
Seld

Your e-mail address (in case we need to reach you) *
mileka17@yahoo.com

Board of Regents Agenda Item (required) *
BOR VI.E. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands
-- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *
Oppose

Your Testimony/Comments
No to Building on MaunaKea! That is a cultural and sacred place. No more telescopes up there please. Dismantle and move somewhere else please. Sacred places should be left alone. There are other places to choose. Enough is enough! No more just bc of money. My ancestors went to Mauna Kea for spiritual and cultural callings. Stop destroying our Mauna. Damaged telescopes have been unattended up there for years. Only when it was made public, did UH all of a sudden care. No No No to building anything else up there. I Love science, this is Not about "Science".

Sadie Sarkissian Eckart
Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
negrim

Your Organization (optional)
Familee Expressions

Your e-mail address (in case we need to reach you) *
maelanilee@yahoo.com

Board of Regents Agenda Item (required) *
BOR VI.E. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *
Oppose

Your Testimony/Comments
I do not approve the newest updated Mauna Kea Plan because I am an heir to Kaohe, filed with the Bureau of Conveyances, therefore I have undivided interest to Mauna Kea and it’s protection. I do not authorize any development or management of the Mountain or landscape and do not support any plans for development or management of this land/mountain. My family asks that all telescopes be decommissioned and this mountain be private for our family as heir to protect and maintain. We ask that a gate be put up for it is private property. We do not authorize any persons up on Kaohe/Mauna Kea from now until further notice is given by me, Maelani Lee.
I Charlene Holani born and raised on Hawaii island, and an alumni of Manoa hereby urge this new working group maintain straight forward clarity with and to all of Hawaii in regards to every change and decision and updates being down by, with and for this working group. It is paramount that the past 'back door', understand happenings will not be repeated and as such this working group realize the final say of these ceded Hawaiian 'lands was/is/and forever more be 'Hawaiian' the universitys precense on Maunakea is not rightfully so and in continueing to be may UH realize who they are answering to, rather then how it has been operating which is, UH had been speaking for and making decisions with out Hawaiian consent. Be pono UH and may this working group keep them accountable.

Mahalo,

Sent from my iPhone
This testimony is attached in pdf format, and is also available as a webpage at tinyurl.com/bdz6vh64

UH regents Mauna Kea 1:20:22 pdf.pdf
94K
To: UH Board of Regents
Date: January 15, 2022
For hearing January 20, 2022
Re: Mauna Kea Master Plan

Please accept this document as testimony on Agenda Item 6F

regarding the draft

This testimony is also available as a webpage at tinyurl.com/bdz6vh64
Four Fundamental Principles of Civil Rights in Hawaii

Here are four fundamental principles of civil rights in Hawaii, each stated in a single sentence. Then there are brief followup clarifications of what they mean. After that are more detailed explanations of how these principles apply to University of Hawaii policies for the governance of the Mauna Kea lands that are under UH control. The draft proposal of the Mauna Kea Master Plan openly and shamefully violates the first two principles, and was created by a racially and politically stacked Working Group most of whose members oppose the third and fourth principles.

These principles are easy to agree upon but sometimes difficult to implement when special-interest groups demand special privileges not granted to others. First I will list the principles very briefly; then I will offer a few clarifications of key words or phrases.

1. Equality before God: All humans are equal in the eyes of God regardless of race.

2. Equality under the law: Government should treat all people equally under the law regardless of race.

3. Unity with America: Hawaii is the 50th State of the USA, whose laws rightfully have jurisdiction here.

4. Unity of Hawaii: The people and lands of Hawaii should remain unified under the single sovereignty of the State of Hawaii, not divided along racial lines.

A few clarifications:

1. Those who don’t believe in God, or believe in 400,000 gods, have other ways to say it. The U.S. Declaration of Independence said: "All men [people] are created equal." Don't believe in creationism? Natural law gives every human equal worth and inalienable rights.
A beautiful Hawaiian creation legend says the gods mated and gave birth to these islands as living beings. Later the gods mated and gave birth to the first human from whom we all are descended. Thus humans are children of the gods and brothers/sisters to the 'aina.

Unfortunately some activists twist this legend to say only people with Hawaiian blood have this genealogy; therefore ethnic Hawaiians have a god-given right to rule Hawaii. Using religion or race as a basis to demand political power in Hawaii is just as unacceptable as jihad in the Middle East, fascism in Europe, or white nationalism in South Carolina.

2. Equal treatment under the law means there should be no special rights or government entitlement programs for one race preferentially or exclusively. Hawaii has many hundreds of such programs. They are illegal under the 14th Amendment equal protection clause, and morally repugnant as "institutional racism" comparable to Jim Crow laws in the old South.

For each program, either open it so all races have access or shut it down. If Native Hawaiians are truly the most needy, then they will receive most of the help if help is given based on need alone.

Article 12 Section 7 of the Hawaii Constitution grants special rights to Native Hawaiians for "traditional and customary practices" interpreted to include trespassing for shoreline access, religious practices, or gathering certain materials. The pono way to honor that provision while also honoring equality under the law is to extend the traditional and customary rights of Native Hawaiians to all citizens. In the kingdom, those rights were for everyone regardless of race ("hoa'aina" meant "tenant" not "native tenant"; "kanaka" meant race-neutral "person").

3. The Hawaiian revolution of 1893 was done entirely by local men while 162 U.S. peacekeepers, present for fear of rioting or arson, were never needed or used. Hawaii remained an independent nation until 1898.
The Republic was given full-fledged international recognition as the rightful successor government by emperors, kings, queens, and presidents of at least 19 nations, including Queen Victoria — all personally signed letters congratulating President Dole. In 1897, the Republic, internationally recognized as the rightful government of Hawaii, offered a Treaty of Annexation to the U.S., which the U.S. then accepted in 1898 after lengthy debate.

Some Senators complained that ratification by both House and Senate was not correct procedure for a treaty, but they lost. Neither Hawaiian secessionists nor U.N. has standing to overrule the method chosen by the sovereign U.S. to make its internal decision to ratify what the Republic of Hawaii offered. Yes, we are Americans.

4. What Kamehameha hath joined together, let no politicians rip asunder. The people and lands of Hawaii should remain unified under the single sovereignty of the State of Hawaii, not divided along racial lines — no race-based government recognized as though it is an Indian tribe.

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Mauna Kea Sacredness: Debunking the assertion of religious sacredness as a cynical ploy by activists seeking race-based political power and money for racially exclusionary government handouts.

During Summer and Fall 2021 there were several calls for supporters of the Thirty-Meter Telescope project on Mauna Kea to submit testimony to various institutions in Hawaii and mainland USA. Following is a consolidated version of Ken Conklin's testimony.

Aloha. I am Kenneth R. Conklin, Ph.D., retired professor of Philosophy. I have lived in Hawaii permanently since 1992, speak Hawaiian with moderate fluency, and have developed considerable expertise in Hawaiian history, Hawaiian culture, and especially the Hawaiian sovereignty movement. My testimony about Mauna Kea focuses mostly on debunking the disrespectful assertion of religious sacredness
as a cynical ploy by activists seeking race-based political power and money for racially exclusionary government handouts.

1. Activists seeking political power are (ab)using Mauna Kea as a pawn in their political game. They illegally block the access road, literally holding the summit as a hostage. They hope to either secede from the USA and re-establish Hawaii as an independent nation, or else obtain federal recognition for a phony Hawaiian tribe. The state government agency Office of Hawaiian Affairs demands megabucks in "rent" [bribe] for the telescope campus -- money to be spent on racially exclusionary projects. Both varieties of activists want to control access to the telescope campus and the summit, and the kinds of activities permitted there, so they can force visitors to comply with cultural/religious protocols and listen to propaganda about Hawaii's history. If you decision-makers withhold funding or political support for the telescopes, or if you cater to activist demands for control over visitors, including activist requirements for visitor orientation and protocol, you thereby enroll as their accomplices.

2. Extremely few people truly believe Mauna Kea is "sacred" in a religious sense. Everyone appreciates the beauty and majesty of Mauna Kea. The activists regard it as "sacred" in the sense that controlling it is essential to their political and financial success, in the same way as a football quarterback is sacred to the team, or teenagers' weekly allowances are sacred to them. By using the word "sacred" they expect that the warm-hearted and generous people of Hawaii will step back in awe and give deference to what is falsely portrayed as their religion. The activists have a long history of claiming that every square inch of land in Hawaii is "sacred" because of a beautiful creation legend that they twist to say that anyone with even one drop of Hawaiian native blood is genealogically a child of the gods and a sibling to the land in a way nobody else can ever be who lacks a drop of the magic blood. Every location is "sacred" because chiefs, gods, or plants/animals who are body-forms of the gods lived there or did actions there. In bygone centuries Hawaiian natives buried family members or fallen warriors in shoreline sand dunes, back yards, or under their houses; thus ancient bones are found everywhere.
Nowadays if a single bone is found at a construction site the whole project must be halted until a committee decides whether to spend lots of money to ceremonially protect and rebury it in place and leave a vacant perimeter around it, or whether to move it somewhere nearby. Claims of places or bones being sacred are asserted everywhere, thereby giving the activists a race-based permanent property-rights easement on all the lands of Hawai‘i, along with political power, and basis to demand compensation. Today’s activists have been known to bury some human bones or erect small structures either to claim that they are ancient artifacts or to claim that the Hawaiian religion is alive and therefore the artifacts newly created by its practitioners must be treated as sacred.

3. The ancient Hawaiian religion with centuries of tenure was permanently abolished in 1819, the year before the first Christian missionaries arrived. It was abolished by the four top political and spiritual leaders of the Kingdom in a public display in front of perhaps a thousand important people. They broke an major taboo whose violation normally carried the death penalty, and then gave a short speech proclaiming that the old religion was now overthrown, and ordering the destruction of all the stone temples and burning of the idols throughout all of Hawai‘i. The four leaders were the young King Liholiho Kamehameha II, his biological mother Keopuolani (sacred wife of Kamehameha The Great) who had the highest mana (spiritual power) in Hawai‘i, his regent (co-ruler) stepmother Ka‘ahumanu ("favorite" wife of Kamehameha The Great among more than 20 official wives and numerous unofficial concubines), and Kahuna Nui (High Priest) Hewahewa. These leaders freely exercised self-determination on behalf of the entire nation. Soon thereafter came a short civil war. High chief Kekuaokalani, to whom Kamehameha The Great had entrusted the war god Ku, and his army, fought to preserve the old religion but were slaughtered in the Battle of Kuamo'o. Some ethnic Hawaiians today seek to revive the old religion as a political power-seeking ploy, thereby disrespecting the freely-chosen self-determination of their ancestors, and also disrespecting the Christianity practiced by most ethnic Hawaiians today. Many ethnic Hawaiians today claim to embrace both Christianity and the ancient religion, and pray or chant to the god(s) of
both. There are even a few left-leaning Christian pastors who tell their flocks it's OK to embrace both; but the Protestant missionaries of the 19th Century and the Catholic hierarchy of today reject such syncretism. One thing that makes Kauikeaouli Kamehameha III famous among historians was his gut-wrenching public vacillation between the two religions: He dearly loved his younger sister Nahi'ena'ena (same pair of parents) and made a baby with her (especially for love and also for politically-expected genealogical enhancement of mana in the royal family) even while periodically repenting and trying to be a good Christian when the missionaries warned him.

4. An essay drafted by 7 Native Hawaiian leaders in July, 2021 is entitled "The Historical Context for Sacredness, Title, and Decision Making in Hawai‘i: Implications for TMT on Maunakea." It points out that the ancient Hawaiian religion and its gods had no objection to using areas near the summit of Mauna Kea for commercial and industrial purposes which included living and working there, digging into the ground to quarry rocks for sale or barter, and leaving their trash behind. It is not "Wao Akua" (the realm of the gods where ordinary people are not allowed to live or work). "Archaeological evidence demonstrates that, while the kapu system was in effect, Hawaiians utilized Maunakea as a valuable resource for industrial activities for over 500 years until the time of western contact. Hawaiians excavated the upper slopes of Maunakea for stone of exceptional quality to make tools. As described by Hawaiian cultural practitioner and master navigator Kalepa Baybayan during the TMT contested case hearing, “[t]hey ... shaped the environment by quarrying rock, left behind evidence of their work, and took materials off the mountain to serve their communities, within the presence and with full consent of their gods.” This adze quarry complex covers an area over 900 times the size of the permitted TMT site, which itself is small compared to the entire astronomy precinct"

5. Hawaii is multiracial, with many different religions. No individual race or religion should be allowed to dictate to everyone else what will be the decisions of the government. The Constitution, First Amendment, says there shall be no "establishment of religion" by the
government, meaning that government must not adopt any particular set of religious beliefs as the primary basis for making decisions that affect all people of all different religions. That Amendment allows "free exercise" of religion by any religion, so long as it doesn't force itself on anyone who is not an adherent of it. It would be both legally and morally wrong for any government agency to award custody of Mauna Kea to any racial group or to adopt decisions or regulations establishing the ancient Hawaiian religion as the primary authority. The Constitution of the State of Hawaii, Article XII, Section 7 declares that the State "reaffirms and shall protect all rights, customarily and traditionally exercised for subsistence, cultural and religious purposes and possessed by ahupua’a tenants who are descendants of native Hawaiians who inhabited the Hawaiian Islands prior to 1778, subject to the right of the State to regulate such rights." Subsequent court decisions have ruled that those rights extend to ethnic Hawaiians beyond the borders of any particular ahupua'a, and apply to shoreline access and gathering of certain plants for subsistence and cultural practices. To avoid imposing racial exclusivity, all such rights should be allowed to every resident of Hawaii. We would thereby ensure that all Native Hawaiians would be protected as required by the Constitution, while also manifesting the Aloha Spirit and the value "ho'okipa" as we avoid racial supremacy or exclusivity.

In conclusion: The thirty-meter telescope project will bring jobs and economic development sorely needed in Hawaii. Objections based on culture or religion are unacceptable both legally and morally. Mauna Kea is indeed a sacred place -- not only for Native Hawaiians, not only for all the people of Hawaii, but for the entire human race. It will help us explore and understand our origins and the beauty of the cosmos. It will bring us knowledge to guide our descendants as they navigate among the stars, just as ancient Hawaiians used the stars to navigate across the ocean.

SEE REFERENCES TO CONKLIN’S WRITINGS ABOUT MAUNA KEA ON THE FOLLOWING PAGE:
On September 27, 2018 Ken Conklin submitted testimony regarding proposed rules for Public and Commercial Activities on Mauna Kea Lands. A short summary of the testimony lists 4 fundamental principles of unity and equality, two conclusions, and topics of specific rules that are analyzed. The summary is at https://tinyurl.com/yccvmtwy
The complete 18 page testimony is at https://tinyurl.com/y8vse4k2

Compilation of newspaper articles from 1999 to 2003 describing the importance of astronomical discoveries on Mauna Kea, opposition to Mauna Kea astronomy from Hawaiian sovereignty activists, and OHA's attempts to extort money and political power https://tinyurl.com/y9t2jcr9

Ken Conklin testimony March 11, 2002 to Hawaii Department of Land and Natural Resources: How the telescope campus on Mauna Kea serves the spiritual essence of this sacred place in accord with Hawaiian creation legend. https://tinyurl.com/y7vkmf66

Ken Conklin testimony January 12, 2004 NASA EIS scoping hearing: How the telescope campus on Mauna Kea serves the spiritual essence of this sacred place in accord with Hawaiian creation legend; why testimony from Hawaiian sovereignty activists should be discounted in view of their motives. https://tinyurl.com/4fhkx

On May 21, 2015 Honolulu Star-Advertiser published a major commentary I authored: "Protesters use claims of sacredness for political agendas" Full text of the commentary, plus greatly expanded analysis, is available on my webpage "Mauna Kea 2015: Sacred Place; Political Pawn; Profane Demagoguery; Recreational Activism" at http://tinyurl.com/omjuj3p
See item 8 in that webpage for the newspaper commentary.
**Public Testimony Form - University of Hawaii Board of Regents**

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<th><strong>Your Name (required)</strong> *</th>
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<td>Samuel Wilder King II</td>
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<td><a href="mailto:kingsam2@gmail.com">kingsam2@gmail.com</a></td>
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<th><strong>Your Testimony/Comments</strong></th>
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<td>I support adoption of UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island...*</td>
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community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Your Testimony (pdf or word)

No file attached
**Public Testimony Form - University of Hawaii Board of Regents**

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<tr>
<th>Your Name (required) *</th>
<th>Göran Sandell</th>
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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:ghlsandell@gmail.com">ghlsandell@gmail.com</a></td>
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<td>Your Testimony/Comments</td>
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**Your Testimony (pdf or word)**

[Support of UH's draft Master Plan for Mauna Kea.pdf](#) (40.5 kB)
To the University of Hawaii Board of Regents

I support adoption of UH’s draft Master Plan for Mauna Kea. In my opinion UH has done a very good job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. Building the TMT is absolutely necessary and it should be built on Mauna Kea. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud to have been part of it. Astronomy on Mauna Kea provides opportunities for our children to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and the future of astronomy.

Göran Sandell, PhD.
1368 Keneki Pl
Hilo, Hawaii 96720
Ph. (8080 769 1375
Email:ghlsandell@gmail.com
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Ron Reilly

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
rrcomm@hawaii.rr.com

Board of Regents Agenda Item (required) *
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Your Position (required) *
Support

Your Testimony/Comments

I support adoption of UH’s draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the
scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Your Testimony (pdf or word)
No file attached
Your Testimony/Comments

I fully support this Master Plan for the University of Hawai‘i Maunakea Lands. I am thankful that the rights of the Hawaiians are protected according to the Hawaii Constitution in this Master Plan. The University of Hawaii has done a good job over the past decades and this new plan includes more guidance for the CMP and Public Commercial Activities on Maunakea Lands, this is important as the current structures are aging and require upkeep. I am pleased to see the balance between astronomy, cultural practices and the environment are a focal point of this plan as Maunakea can serve as a center for knowledge for our past and obviously for humanity understanding of our solar system, our place in the universe. There is an emphasis on ‘Imiloa, the Rangers, volunteers, Maunakea Management Board and Kahu Ku Mauna Council, Environmental Community for the future, thus we can move forward in a way that protects the land and our culture.
Management of Maunakea Lands to UH Hilo under the advisory of Maunakea Management Board and Kahu Ku Mauna indicates that people who know best and are closest will be able to make effective decisions should problems arise.

I was encouraged to see DLNR recently evaluated Maunakea's natural and cultural resources as the best protected in Hawaii.

Thank you for trying your best to reach out to the Hawaii Island kia'i, even though they refused to speak with you. Please know I am one of the many Kanaka Maoli supporters of TMT and astronomy. I hope astronomy will continue in Hawaii, I can't imagine an institution of higher learning without an astronomy department. I support TMT and would like to see Hawaii continue as the leader in astronomy not only for the science but for the education for our future generations.

I support this Master Plan.

Sincerely,

Veronica Ohara

Your Testimony (pdf or word)

No file attached
### Public Testimony Form - University of Hawaii Board of Regents

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<tr>
<th>Your Name (required) *</th>
<th>Alice Juliette Lehualani Rogers</th>
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<td>Your Organization (optional)</td>
<td>retired</td>
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<tr>
<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:ajlrogers@hawaiiantel.net">ajlrogers@hawaiiantel.net</a></td>
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<td>Your Testimony/Comments</td>
<td>King Kalakaua was majorly interested in astronomy, electricity, and communication. He was a far sighted person. The damage done by the so-called Sovereignty Hawaiian movement is beyond belief. They are so busy fighting among themselves for power that they have forgotten, if they even knew, what Kalakaua stood for. They also do not know their history at all. They are a very divisive, backward group. No matter how much money you throw at them, it will never be enough. The destruction of the Hawaiian beliefs by these people, i.e. the damage to plants and territory in their illegal, unlawful pillaging of Maunakea is unbelievable. I think sometimes that if the Japanese, Chinese, Russians, or Germans had taken the islanders - they would still be slaves if not dead. I would point out the necessity for this telescope - and finding out if we have neighbors anywhere close. I know many of...</td>
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you have worked long and hard - not always well or right, but you have worked on this project. Thank you for your
diligence.

Your Testimony (pdf or word)
No file attached
I support adoption of UH’s draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. Mauna Kea is some of the best managed state-owned land in Hawaii, and I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea benefits our keiki in terms of education, training, inspiration, and pride in the scientific discovery. The world-class nature of astronomy on Mauna Kea is vital for the Hawaii Island community and for the economic diversification our state as a whole. Please keep it up.
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Lorna Holmes

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
lholmes@hillsdale.edu

Board of Regents Agenda Item (required) *
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Your Position (required) *
Support

Your Testimony/Comments

I mua TMT! I support adoption of UH’s draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. Also, Mauna Kea is now some of the best managed state-owned land in Hawaii. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the economic diversification and world-class nature of the work that goes on there. Please adopt the Master Plan and move ahead with the TMT.
**Public Testimony Form - University of Hawaii Board of Regents**

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<th>Your Name (required) *</th>
<th>Sam Gridley</th>
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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:Sam.gridley@gmail.com">Sam.gridley@gmail.com</a></td>
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Your Testimony/Comments

I strongly support the adoption of the University of Hawaii Master Plan for Management of Maunakea Lands. It reflects the needs and aspirations of ALL Hawaii, not only those of a minority group. It recognizes the complexity of the task and is the only thoughtful, coherent plan of management on the horizon.

Your Testimony (pdf or word)

No file attached
Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Ed Clapp

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
elclapp@gmail.com

Board of Regents Agenda Item (required) *
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Your Position (required) *
Support

Your Testimony/Comments
I’m in favor of UH continuing to hold the lease for the telescopes on Moana Kea. I support the future telescope and the great science being done here in Hawaii.

Your Testimony (pdf or word)
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# Public Testimony Form - University of Hawaii Board of Regents

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<th>Your Name (required) *</th>
<th>Brian Clark Lemaux</th>
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<td>Your Organization (optional)</td>
<td>Gemini-N/NOIRLab</td>
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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:brian.lemaux@noirlab.edu">brian.lemaux@noirlab.edu</a></td>
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### Your Testimony/Comments

The draft master plan for the UH stewardship of Maunakea lands, as written, documents an extremely thorough and balanced vision for the future of Maunakea stewardship. If adopted and implemented effectively, this plan should improve on every aspect that the mauna offers, from cultural interpretation, environmental sustainability, astronomical research, cross-disciplinary research, conservation, and educational opportunity. Those who crafted this plan clearly solicited a broad swath of input and listened carefully to all the voices that spoke to their experience with and their vision for Maunakea. Speaking from the perspective of an astronomer of 20 years, the current plan, as written, will not only maintain the highly
productive facilities on the mauna, but allows for a carefully controlled modest re-fitting of those structures on existing sites, those which are not to be decommissioned, in order to make them more impactful while still maintaining a limited presence on the mauna. It also allows for the development of another world class research facility on the currently existing site 13, whether that be TMT or another telescope, a crucial step towards answering the questions of 21st century astronomical research for which currently facilities are insufficient. These questions are at the very core of our search for our origins as a species, the origins of our planet, of our galaxy, and of our universe; a fundamentally human endeavor. This plan is crafted with love for the mauna, what it brings to all people, and looks to improve on the experience of respectfully communing with the mauna for all who chose to, irrespective of their profession, background, race, or beliefs. I believe this plan should be adopted.
Testimony submitted for the support of the TMT

Jean Toyama <toyama@hawaii.edu>
To: bor.testimony@hawaii.edu

Mon, Jan 17, 2022 at 11:09 AM

I am sending you the testimony I sent last month and continue in my firm support of the TMT.

Jean Yamasaki Toyama, Emerita Professor of French-UHM

AsupportTMT.docx
15K
January 17, 2022

I am resubmitting the testimony I sent previously and am more than ever convinced that the we in Hawai‘i must look to the future and realize the vision of Governor John Burns and Queen Lili‘uokalani.

Here is that testimony.

The TMT is part of the grand vision of our beloved Governor of Hawaii, John Burns. Mauna Kea’s potential was part of how he saw Hawai‘i and its role in the future. According to grandson Brendan, Governor John Burns, "dreamed of the creation of world class telescopes". Because of his efforts to make this happen, the road leading up to the telescopes on Mauna Kea is called "John A. Burns Way." This was in 1970.

Experts will extoll the location, the pristine conditions, I point out the continuity of history. The building of the TMT will be the pinnacle of the vision he had for our state and the continuation of Queen Lili‘uokalani’s passion for science. She said, “The ancient Hawaiians were astronomers.”

Whatever valid issues exist between the supporters and protesters of the TMT, I hope that they can be worked out in a fair and honest way, perhaps in the Hawaiian Ho‘oponopono way.

I think about the ancient ones
— na po‘e kahiko—
robust, curious, hungry to find.
How they would have relished
exploring nōho‘i
—the Milky Way—
to watch creation unfold
by slicing through time
diving into the waves of the Big Bang.

Jean Toyama
55 S. Kukui St. #2801
Honolulu, Hawai‘i 96813

533-4186 or 228-9922 (cell)
Mauna Kea management plan

As a scientist (MD) and a resident of Kamuela, I am in favor of the TMT. The plan must provide considerable attention to the Hawaiian Culture, and respect and inclusion for those who believe the Mountain is sacred.

I believe these two issues can be resolved in a win-win.
RECONFIRMING Comments sent to the Board of Regents on the UH Master Plan Draft December 15, 2021:

I support the draft Master Plan for the University of Hawaii Maunakea Lands dated December 10, 2021.

Maunakea is a special place for its beauty, cultural significance and uniqueness in the world. We share kuleana to keep it that way. The Plan shows careful consideration and balancing of both the cultural and scientific importance of Maunakea.

- Maunakea is the best location in the world for astronomical observation. UH should do everything it can to maintain that status. I support the cutting edge observatories on Maunakea, the decommissioning of observatories that are past their prime, and the building of new observatories as they meet standards in the Master Plan. Yes, I support building the TMT. I believe that the people employed by these observatories will continue to treat the mauna with the utmost respect. The world benefits from the discoveries made on our mauna. Our kama'aina benefit from the inspiration (and jobs) our observatories provide.
- Expanding educational opportunities is a great goal, as long as you are careful not to overwhelm facilities.
- Allowing cultural practitioners access to the summit is a given. But they, too, need to malama ka 'aina. I'm disgusted at the continued ugliness of the protestors' camp leavings and hope we never see such a mess up at the summit.
- Tourism (off-islanders and kama'aina) has to be managed and limited to prevent damage to the mauna and to facilities. I think the Plan outlines a decent approach, but I expect it will require adjustments as you learn what works best.

The University of Hawaii has learned a lot (and will keep learning) and has shown that it should continue managing the Maunakea Lands for the benefit of all.

I also submitted comments on January 4, 2022, to the Mauna Kea Working Group that I do NOT support their 12/17/21 draft and that I support the UH Master Plan.

Georjean Adams
South Kohala, Hawaii
This is to reaffirm my support of the Maunakea Master Plan as testified and submitted by email on December 15, 2021.

Theone Vredenburg
Maunakea Master Plan Testimony
1 message

MauiBeachBumm <mauibeachbumm@gmail.com>  Mon, Jan 17, 2022 at 12:45 PM
To: bor.testimony@hawaii.edu

Aloha,

I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion.

I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home.

The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Mahalo,
Marc Lefebvre
(808)298-3560
Belinda Cole-Schwartz <belindacole@gmail.com>  
To: bor.testimony@hawaii.edu  
Mon, Jan 17, 2022 at 1:07 PM

What an opportunity for Hawaii to host the largest telescope in the world. Possibly finding discoveries that can enlighten and protect our planet.
Dear Regents,

I am a Hawaii resident writing to express strong support for the Thirty-meter telescope (TMT). This project is important for the knowledge it will give our peoples, and also for the inspiration it will provide for the children of Hawaii, and the opportunities it can open up for our keiki.

When I served as a judge for the Hawaii State Science and Engineering Fair (HSSEF), I saw many students, of all ethnicities, doing projects in astronomy and astrophysics, inspired by our history and heritage of astronomy in Hawai‘i and on Mauna Kea. The enthusiasm of the kids for science, and their drive to understand nature for the benefit of humankind, was truly inspiring. Now, the self-appointed “protectors” of Mauna Kea want to take away the opportunity, and make all of us poorer. The historical injustices are unquestionable, but stopping astronomy on the Mauna will only make them worse. It’s as if a bitter uncle, mistreated and denied education by his family, insisted that the family throw away the college funds for all the next generation, including his own kids. We would pity, not praise, a family who caved into such a demand.

Mauna Kea, as a home for astronomy, is a great gift to all of humanity, and especially to future generations of Hawai‘i. I urge you to let us keep navigating by the stars to secure a brighter future for our state and for our children. Imua kilohoku!

Aloha and Mahalo,

Mike

Michael J DeWeert
45-343 Mahalani Street
Kaneohe, HI 96744
(808) 372-1483
Aloha,

There can be no better use for Hawaii and Hawaiian culture than to continue the study of the heavens and Earth than the further observation and remote exploration of the Universe by instruments such as the TMT and other facilities located atop Mauna Kea and Haleakala, The premier venues for these observations in the whole world.

Don't throw out the baby with the bathwater.

Jon Sobstad
Molokai, Hawaii
As a culturally sensitive 55 year Hawaii State resident with part Hawaiian grandchildren (one attending Kamehameha School), I have followed the TMT controversy carefully. We must get it right to be fair to all interests and to promote peace and harmony in our Aloha state. I think the State House task-force Report is not a fair and wise map for realigning governance on Mauna Kea since it does not offer safeguards for its continued use, in part, as a uniquely valuable astronomy resource. It does correct the previous former lack of Native Hawaiian leadership input but would cut the UH representation entirely from the Governing Board. It tilts toward Hawaiian cultural activists who seem largely motivated by their activism and wish to dominate and control rather than follow other Hawaiian interests in sharing and developing natural assets for themselves and the larger community. Total control of Mauna Kea by these activists is no longer necessary since the other stakes-holders have now indicated their willingness to compromise and share this sacred* mountain's governance more equitably, upholding all its cultural-religious, scientific, recreational, ecological and artistic values. The Astronomy leaders have made it clear they will greatly heed and as much as possible defer to cultural Hawaiian interests. Future mountain management must include wise and respected leaders from the Kanaka Maole Community as well as the University of Hawaii, the Astronomy Community and State Government. For sure, outdated Observatories must be removed while this one, the last, is added.

*a mountain can be spiritually sacred to many beholders and still be uniquely sacred to its first settlers, without their exclusive management!

It is a known fact that many Hawaiians support the TMT and take issue with the activists’ more narrow perspectives.

Brian O’Hara MD
Honolulu, January 19, 2022
I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work and it is important to keep these brilliant scientists employed right here in Hawaii!

Astronomy on Mauna Kea is part of our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Thank you,
Patricia Cadiz
Paia, Hawaii
I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT).

UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home.

The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

I mua Kilo Hōkū and i mua TMT!

Barbara B Ells
Ben W Dysart

Aloha >"
I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.
Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!
Again I reiterate my support for the UH management plan at Maunakea. This argument has got to stop, and that telescope needs to be built as soon as possible.
These delays continues to hurt Hawaii and the future of our world.
Simple as that!
Suzanne Elise Anderson
Sent from my iPhone
Support for UH Maunakea Master Plan

1 message

Erik Petigura <petigura@astro.ucla.edu>  Mon, Jan 17, 2022 at 1:32 PM
To: bor.testimony@hawaii.edu

Aloha UH Board of Regents,

I am a former visiting scholar at UH Manoa. I currently live in Los Angeles.

I support adoption of UH’s draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Mahalo,

Erik
Statement in Support of TMT
1 message

Pavel Stankov <pstankov@hawaii.edu>  
To: bor.testimony@hawaii.edu

Mon, Jan 17, 2022 at 1:34 PM

Aloha,

I am writing to you as a person who cares about the future of Hawai’i, the future of science, and the future of human understanding.

TMT will be a much needed source of scientific knowledge for the entire world, and I welcome its creation on Mauna Kea. There is no better place on Earth for this remarkable feat of human ingenuity, and to reap its benefits we need to have it on the island of Hawai‘i. This will be yet another cause of pride for the state and all of its inhabitants: we will be able to say that the knowledge that belongs to our entire species is furthered in the pristine environment of the world’s largest mountain.

Sincerely,

Pavel Stankov
I support the UH's draft master plan

Michelle Sandell <mysandell@gmail.com>  
To: bor.testimony@hawaii.edu

Mon, Jan 17, 2022 at 1:38 PM

Dear University of Hawaii Board of Regents:

I wrote before your December meeting expressing my support for the UH draft Master Plan for UH-managed lands on Mauna Kea.

With a new meeting upcoming this month, I wanted to let you know that I still maintain that support. My earlier comments are included below.

Thank you for reading, and please keep astronomy alive on Mauna Kea!

-Michelle Sandell

I support the UH Master Plan because I support astronomy in Hawaii, astronomy supports Hawaii, and I believe the University of Hawaii has handled well the massive responsibility of managing Mauna Kea in the past. I am confident they will continue to do so in the future. It is also exciting to look forward to the Master Plan's expanded efforts to incorporate other disciplines for field studies at Halepōhaku, to be committed to the teaching telescope there, and to increase the ways the larger community connects with the decision-making process.

I am proud of what Mauna Kea stands for. I am proud that all of our activities on and around the summit manifest important human values: caring for the land and for each other, and the pursuit of knowledge. Let's keep up the good work and move forward with UH's draft of the Master Plan!

Sincerely,

Dr. Michelle Sandell  
Hilo, Hawaii  
PhD, Northwestern University

Writer, DiscoverHawaiiScience.com  
Website guru, Ke Ola Magazine
Aloha.

I stand by my previous testimony in support of UH and of the TMT.

Additionally,

I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home.

The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Mahalo.

Valerie Weiss
Kapaa
Aloha,

I worked nine years for Gemini Observatory in their Public Relations and Astronomy Education Outreach Department. My job was to arrange and assist/lead events and presentations to children, classrooms, families and to general public gatherings with the intention of sharing scientific inspiration.

I chose to welcome and inspire everyone to step into the wonder of the stars. My favorite continual opening was to ask ... Who would love a job, if it were to do what you love! and be paid for it! to be part of teams to explore the edge of human discoveries? I would emphasize to all grade levels, this mountain, Mauna Kea, in this ocean at that (this) time (was) is considered the best place in the world for cutting edge discoveries of the universe. In their back yards!! ... then I would continue to introduce the stars (star systems - Hawaiian as well as Greek) and encourage them to look up and greet/make friends of identifiable stars that are forever around us, that may help us all keep time and place in our lives as they have in the past navigating the oceans.

I left Gemini in 2012! At that time, the Thirty Meter Telescope project was supportive in programs for our community, partnering to enable funding for Journey through the Universe affecting thousands, helping summer Akamai internships and many more projects. At that time, ‘First Light’ for TMT was tentatively (as the most ambitious!) 2018!!! Not even broken ground in 2022! Lets not use this project as a political sledgehammer. Wow, lets not delay!

What honor we might welcome in our back yard! and Hawaiian resident children be welcomed to work with.

Discovery! Science! inspiration! Not even for profit! May TMT please be our future or their future (everyone who chooses so)!

Thank you,

Andolie Marten
Hilo, Hawaii
2002-2012 outreach assistant/planetarium hostess/Imiloa Family Astro nights hostess/Journey through the Universe assistant. Gemini Observatory
Fwd: Mauna Kea Working Group's Governing Model for Mauna Kea

2 messages

Gerald Lai <gerald.kk.lai@gmail.com> Mon, Jan 17, 2022 at 1:47 PM
To: bor.testimony@hawaii.edu

University of Hawaii Board of Regents,

This is my email to the Mauna Kea Working Group (MKWG) regarding it's Draft Report on the Management of Mauna Kea. The MKWG Draft Report EXCLUDES the International and National Astronomy, Scientific and Academic Communities from participation in the Management of Mauna Kea. The astronomical and scientific research, development and discoveries on Mauna Kea are too valuable and beneficial to Mankind's Knowledge of the Infinite and Eternal Universe to be sidelined and rejected by a racial, ethnic, cultural minority with a belief that Mauna Kea is sacred. The stewardship and management of Mauna Kea must remain with the UH Stewardship Master Plan adopted by the Board of Regents.

Gerald Lai

---------- Forwarded message ----------

From: Gerald Lai <gerald.kk.lai@gmail.com>
Date: Tue, Jan 4, 2022 at 3:41 PM
Subject: Mauna Kea Working Group's Governing Model for Mauna Kea
To: <maunakeaWG@capitol.hawaii>
Cc: <imuatmt@gmail.com>

To Members of the Mauna Kea Working Group (MKWG)

The Draft Report of the MKWG EXCLUDES the international and national astronomy and scientific community a vote on the management of Mauna Kea.

The International and National Science communities, recognize the importance and immense value of astronomy to advance mankind's knowledge of the Universe, in the fields Astro-Physics, Mathematical Physics, Mathematics, Quantum Physics, and Cosmology. The international astronomy and science community includes the United States, Canada, China, and India which have invested billions into the research and development of the science, technology, hardware, software, and construction of existing observatories and the Thirty Meter Telescope on Mauna Kea.

In the United States, the US National Academy of Science, Gordon and Betty Moore Foundation, Caltech and the University of California are major supporters, contributors, and investors in the research and development of the Thirty Meter Telescope on Mauna Kea.

To exclude the International and National Science Communities from having a say or a vote on the management of Mauna Kea, is a highly prejudicial, one-sided proposal by the opponents of the Thirty Meter Telescope.

The opponents of the Thirty Meter Telescope have used the meme and trope that Mauna Kea is sacred. However, the Hawaiian religion and governance, under the Kapu system, was abolished by King Kamehameha II, Liholiho and Queen Kaahumanu in 1819, 203 years ago. Under the First Amendment to the US Constitution, Under the Establishment Clause, the legislature "shall make no law respecting an establishment of religion". And under the Free Exercise Clause, "or prohibiting the free exercise thereof." "Thus building a wall of separation between Church and State." Thomas Jefferson, a founding father of the US Constitution and third President of the United States.

The Importance of the Thirty Meter Telescope
In 1608 AD, Galileo Galilei invented a telescope which magnified objects 30 times clearer in detail than the human eye. Galileo was the first person to see the four moons of Jupiter, which he thought were distant stars. But after months of observation, he realized that Jupiter’s moons were orbiting Jupiter. With his telescope, Galileo observed the movement of the planet Venus and the waxing and waning of Venus like our moon. When the sun was between the Earth and Venus, Venus was brightly lit. And as Venus moved toward or away from the Earth, Venus would wax and wane like the phases of our moon. When Venus was between the Earth and the Sun, Venus was in full darkness. Galileo then realized that Venus was actually orbiting the Sun, and that the Earth and the other planets were also orbiting the Sun. Up to that time, people, everyone, and the Catholic Church, believed the Earth was immovable, the center of the Universe, that the Sun, planets, stars, and celestial bodies were absolute, immutable, immovable and revolving around the Earth. Galileo with his telescope observed that the faint smudges of light in our Milky Way Galaxy were actually packed with billions of stars, our Sun just one of them. Galileo also observed a supernova, a comet, solar flares and sunspots on our Sun.

Galileo’s discoveries and findings contradicted portions of scripture in the Bible, which brought him into conflict with the Catholic and Protestant churches. In 1633, Galileo was arrested, then tried and convicted for heresy by the Catholic Inquisition. Galileo was forced to recant his astronomical and scientific discoveries, and placed under house arrest for the rest of his life.

Galileo is also considered the Father of the Scientific Method, deriving Principles and Findings by observation, experiment and inductive reasoning. Albert Einstein called Galileo, “The Father of Modern Science”. Galileo implemented a major development in human thought, the Separation of Science from Religion and Philosophy. “The Laws of Nature are Mathematical”- Galileo. Besides his accomplishments in Astronomy, Galileo is also considered the Father of Modern Physics of the Principle of Relativity, of mathematical astronomy, inventor of telescopes, microscopes, thermometer, and time pieces.

The Thirty Meter Telescope on Mauna Kea will have a thousand-fold magnification of Galileo’s telescope and will be technically far superior to Galileo’s telescope. The Thirty Meter Telescope will have the capability to observe the cosmos in near-ultraviolet to med-infrared wavelengths, with adaptive optics to reduce blurring. The Thirty Meter Telescope on Mauna Kea, located in the Northern Hemisphere, working in conjunction with the Giant Magellan Telescope (GMT) in Chile, located in the Southern Hemisphere, will allow astronomers and scientists an unobstructed view of the entire cosmos from the Earth.

As the Polynesians of old, observed, studied, and understood the heavens, to guide them, navigate, explore, discover, and populate vast and remote areas of the Pacific, The Thirty Meter Telescope will carry on this tradition of observing, studying, learning, and understanding the vast Universe in Time and Space, to move Mankind forward toward a greater Knowledge and Understanding of the Infinite and Eternal Universe.

IMUA TMT
I am writing in support of UH's Master Plan for Mauna Kea

Barnaby Beech <barnabybeech@gmail.com>  
To: bor.testimony@hawaii.edu  
Mon, Jan 17, 2022 at 1:49 PM

I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Although this is a copy of a text from a member supporting the development of the Thirty Meter Telescope on Mauna Kea, I would like to express my wholehearted support for the project as a symbol to the world of the greatness that can be achieved here in Hawaii when presented with the right opportunity along with the chance to share it with the world.

Barnaby Beech
As an amateur astronomer from Australia, I implore you to take all steps possible to ensure the construction of the Thirty Metre Telescope on Mauna Kea.

To this end, I urge you to support adoption of the University of Hawaii’s draft Master Plan; obviously this involves continuing UH’s role as manager of Mauna Kea, without which its Master Lease from the Department of Land and Natural Resources may not be renewed, throwing into doubt the continuation of the sub leases of the various observatories on Mauna Kea.

The astronomy research carried out on Mauna Kea is second to none throughout the world; additionally the facilities provide many employment opportunities for the local population, not to mention the manifest educational and scientific pathways for the keiki.

The TMT will take its place at the fore front of global astronomical research; it is good for astronomy, good for the planet and peoples of the world, and good for the local community in particular.

Please do your bit to enable construction of this marvellous and invaluable telescope.

Yours sincerely;
Wayne G. Roberts.
Dear UH,

I’m not a big writer but I just have to say that Hawaii and the world needs these telescopes.

If this were the first building of telescopes on The Mountain I might understand the Hawaiian peoples resistance. But it’s not.

I want Hawaii to be part of the future! I want the jobs and the research of our Universe.

I also want the Hawaiian culture to continue into the future. The world must change and Hawaiian culture must change with it. Be proud of the ancient path finders and build on their discoveries. Let the culture be part of the future not stuck only in the past.

Find a way that the Hawaiian people can benefit from the telescopes. Funding and education directed to the betterment of the people. Be proud of what the Hawaiian people can achieve into the next millennium!

Always with Aloha
E.C. Bolton

Sent from my iPhone
Testimony regarding Mauna Kea Master Plan

Pj InHawaii <pstomski@gmail.com>  
To: bor.testimony@hawaii.edu

Mon, Jan 17, 2022 at 2:01 PM

support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Paul Stomski  
PO Box 1389  
Kamuela, HI. 96743

Sent from my iPhone
Maunakea Reaffirmation of Testimony

Gene <groundsg001@hawaii.rr.com>  
To: bor.testimony@hawaii.edu  
Mon, Jan 17, 2022 at 2:19 PM

Aloha:

This is to confirm that I still stand by my testimony supporting the astronomy use of our wonderful Maunakea.

Mahalo

Gene Grounds
In Support of UH's Master Plan
1 message

Ty Yun <tyun08@gmail.com>  To: bor.testimony@hawaii.edu  Mon, Jan 17, 2022 at 2:19 PM

I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). TMT is one of the most beneficial projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work as should ALL Hawaiians. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

Sincerely,
Ty Yun
Kamuela, Hawaii
Support for UH’s Master Plan.

Art McDonald <art@snolab.ca>  
Mon, Jan 17, 2022 at 2:26 PM  
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>

I support UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is your culture. Astronomy on Mauna Kea provides opportunities for your keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and your state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

Sincerely

Art McDonald

2015 Nobel Physics Laureate

Art McDonald

Gordon and Patricia Gray Chair in Particle Astrophysics, Emeritus, Nobel Physics Laureate 2015

Department of Physics, Engineering Physics and Astronomy
Queen's University
Kingston, Ontario, Canada K7L 3N6
Ph: 613 533 2702 Cell: 613 5411405 Fax: 613 5336813
I stand by my testimony submitted in December 2021 to approve the Master Plan for the University of Hawaii Maunakea Lands ʻE ʻŌ ʻI Nā Leo.
Dear Board of Directors,

I stand by my testimony submitted in December. I continue to vigorously support the addition of the TMT telescope to the astronomy use of the mountain top provided that the older buildings/refuse are cleared from the mountain to use only the space needed. I want to protect the mountain but I also seek the mountain’s use to add to scientific findings in astronomy, which has always been part of Hawaiian culture. I show respect to Mauna Kea by acknowledging and accepting her best in the world spots for astronomy. Aloha nui loa, Kim

Kimberly A. Jackson
Law Offices of Kimberly A. Jackson, LLLC
75-5782 Kuakini Hwy, Suite C-2
Kailua-Kona, HI 96740

Telephone: (808) 329-4421
Facsimile: (808) 329-4508
www.kimjacksonlaw.com
To whomever it may concern,

I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT).

Aloha……Marcia Nora

Sent from my iPad
I totally support TMT on Mauna Kea for all the right reasons including Mauna Kea being the single best location for Astronomy in the Northern Hemisphere. Although I am not Hawaiian I know many Hawaiians whom I have worked with and some who are friends and they support TMT also. The anti-TMT Kia‘i have made many false claims about TMT including that Hawaiians are against the building of the telescope on Mauna Kea... I remember when ground breaking for TMT was happening and the leader and, pretty much, the creator of the anti-TMT movement marched in front of Kapuna at the ceremony; berating them and calling them; "infidels". I, as I'm sure many others, felt shocked that anyone other than a terrorist would call others infidels. I understand that eventually about 50% of Hawaiians joined in support of the anti-TMT movement but then Hawaii is now comprised of many cultures as well as Hawaiians...every poll since this debate began showed a state wide support for TMT. All legal challenges against TMT were overruled because the claims of those opposed to TMT were found to be false. I know it shouldn't matter how long someone is a citizen of Hawaii. But I have lived and worked in east Hawaii for 44 years... Please, I implore you to rule on the side of both truth and the majority of our state's citizens.

Sincerely,

Euclid A. LoGiudice

Sent with ProtonMail Secure Email.
As a retired Hawaii educator I fully support the building and implementation of the TMT on Mauna Kea of the Big Island of Hawaii. I have had the privilege of experiencing what Chile has and is accomplishing in the Southern Hemisphere with their telescopes and look forward to having the privilege to do more here in the Northern Hemisphere. What a honor for us to have the TMT as a worldwide center for learning.

Sincerely, Paula Kamiya, Waikola, HI

Sent from my iPhone
Mauna Kea Master Plan
1 message

Alan Mefford <alanhawaii@yahoo.com>  
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>  
Mon, Jan 17, 2022 at 2:57 PM

UH Center for Maunakea Stewardship's draft Master Plan for UH-managed lands on Maunakea

Dear University of Hawai‘i Board of Regents,

I support UH's draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

I am sure you will see many direct copies of the above message. I have carefully read it to be sure I support the points that it lists. I add that under the UH the Mauna Kea astronomy complex is the best managed in the world. This is partially shown by the many amazing discoveries that have come from Mauna Kea. I know that the UH's draft Master Plan represents many hours of careful study and decisions and I completely support it.

Please continue the great and valuable work.

Alan Mefford
I support the UH draft master plan for Mauna Kea, the continued use of Mauna Kea for astronomy, and construction of the TMT on Mauna Kea. The plan balances preservation of the environment, scenic vistas, recreation, and native cultural practices with the critical scientific endeavors for which Mauna Kea is the best location in the world. It honors the Hawaiian cultural traditions of exploration, astronomy, and adoption of new technologies. It allows for preservation of an important economic sector which provides good jobs, tax revenues, and support for education and paths to a successful future for Hawaii's keiki.

Douglas Perrine
Kailua Kona
To Whom It May Concern,

This is to inform you that my testimony submitted previously stands.

Your consideration of this request is appreciated.

Regards

Robert Nehmad
935 Kauku Place
Honolulu, HI 96825

Telephone (808) 366-9045
### Public Testimony Form - University of Hawaii Board of Regents

*Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.*

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<td><a href="mailto:rnehmad@hawaii.rr.com">rnehmad@hawaii.rr.com</a></td>
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<td>BOR IV.B. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I NĀ Leo (Listen to the Voices)</td>
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<td>I support UH's draft Master Plan because it maintains astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a good job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea recommits the culture demonstrated by indigenous...</td>
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Page 1670
pacific island people (outstanding navigational skills). Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!
As a resident and as an educator, I feel the development of the TMT is the single most important action that the University of Hawaii can take in this century. Astronomy on Mauna Kea is a celebration of our culture as navigators and observers of the heavens. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there.

Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Vicki Fay, EdM. 🌺
(808) 282-0878
46-055 Meheanu Place
Apt. #3444
Kaneohe, HI 96744
To whom it may concern

Please do not let a very small segment of Hawaii’s population Stand in the way of our scientific Community On Mauna Kea, We need to look To the future Honoring the past Not being Controlled by it! I have worked and hunted on Mauna Kea for nearly 50 years and I know from experience, the Mountain is big enough for all of us to enjoy Her!, do not let one group exclude all the rest of us!

Paul Baillie, Keaau, Hawaii
I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua Tmt Mahalo,
Juanita ray
808-345-3513
Sent from my iPhone

I am an avid supporter of UH continuing to manage Mauna Kea and the TMT. The Hawaiian community should have a voice also & be able to practice their beliefs under UH management. The telescopes and the UH Astronomy Program provide a wealth of knowledge & education for our community not available anywhere else in the world. We should not lose this opportunity to expand our knowledge as our mariners of old did.
My comments on the TMT BoR Meeting.

1 message

Haydn Huntley <haydn.huntley@gmail.com>  
To: bor.testimony@hawaii.edu

Mon, Jan 17, 2022 at 3:56 PM

I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

--Haydn

Haydn Huntley
cell: 808-283-5173
Please know that I stand by my testimony submitted in December to the Board of Regents.
Respectfully,
Marilyn Seely, Kaneohe, Hawaii

8082355466
Comments in Support of UH Master Lease for Mauna Kea

Ronald Lynch <ron@lynch.name>
To: bor.testimony@hawaii.edu

I am writing to voice my support for the adoption of UH's draft Master Plan for Mauna Kea. I believe the University of Hawaii has done a very fine job of managing Mauna Kea as evidenced by the collection of world-class telescopes and acquiring a permit for constructing the Thirty Meter Telescope (TMT).

Astronomy is one of the purest of sciences since its discoveries contribute to our understanding of the universe but can seldom if ever be turned into commercial products. There is no other place on Earth that is more ideal for conducting astronomical observations than Mauna Kea. Although space-based telescopes have some advantages, they are severely limited in size and maintainability leaving a critical role for ground-based telescopes such as those currently on Mauna Kea and the proposed Thirty Meter Telescope.

Astronomy has been and continues to be a "good neighbor" and the entire state benefits from its presence both in prestige and in more immediate ways such as job creation and infrastructure improvements. If UH's master lease is not renewed, it could jeopardize or delay construction of the Thirty Meter Telescope and might call into question the validity of the subleases used by the existing astronomical facilities.

I realize that a subset of the Native Hawaiian community are opposed to this renewal claiming rights to Mauna Kea on religious grounds. While I support the right of protestors to state their objections and to have their day in court (which they did), those who blocked the legally approved construction of the TMT were illegal obstructionist not protestors. Had the courts sided with the protestors they would have have expected the rest of us to respect that decision but, having lost, some of them decided that the court ruling was invalid and implementation should be physically prevented. That is not the way things should work in a civilized society.

Respectfully Submitted,

Ronald A. Lynch
M.S. Chemistry (University of Hawaii at Manoa 1974)
M.S. Computer and Information Science (University of Hawaii at Manoa 1977)
The world needs science, and science needs Hawaii.

1 message

Joseph Wolf <loboprod8@gmail.com>  
To: bor.testimony@hawaii.edu  
Mon, Jan 17, 2022 at 4:12 PM

Killing TMT should not even be under discussion. It's the stupidest pathway possible.
Aloha - As an extremely proud ’62 UC Berkeley and a 50+ year resident of Hawaii I write to lend my full support to the building of the Maunakea Telescope on the island of Hawaii. My reasons are many:

- Positive impact on for jobs and opportunities for Hawaii sand Hawaiians
- Positive impact to the State of in terms of reputation for the University and in the world of astronomy
- Ideal location for the future of important astronomical research
- Many opportunities for research and inspiration for Hawaii’s students from elementary through the University level

The benefits for Hawaii and the scientific community are immense. I strongly this important project both for science but also for Hawaii which is my second home.

Thank you for you consideration of my thoughts.

Aloha.

Nancy Taylor
Good morning. I will be brief. I urge your approval of the UH Master Plan for Mauna Kea.

In particular the TMT must proceed as foreseen or our community will forego a wonderful and unique research facility. We cannot allow a shortsighted or limiter approach to astronomy in Hawaii.

I wish we could have it on Haleakala but that will not work.

Thank you and Aloha.

Paul Meyer

Maui
Aloha

My name is Gardner De Aguiar. I am a 57 year old Kānaka Maoli and have lived all my life in Hawaii, the majority here on the Big Island. I fully support the construction of the Thirty Meter Telescope here. We need an industry that will keep our best and brightest people here in the islands, and Astronomy should be that industry. It is an industry that will progress our people and place us on a level playing field with the rest of the modern world. It will provide another industry to rely on besides Tourism -- an industry that makes servants of us. Our ancestors were Explorers and we should continue this tradition in these modern times. Culture and Science can COEXIST on the Mauna.

Gardner De Aguiar
Hilo, Hawai‘i
Aloha, I would like to offer testimony on the master plan. I truly support the continued objectives of astronomy on Maunakea, however I would like to see more accountability in sustainably dismantling telescopes, containing any chemicals from the ground, and protection of places such as Lake Waiau. I also would like to see more reforestation, more focus on subjects that reflect the historical significance of the mauna and protection of fauna and flora such as silverswords, and conjunction with Maunakea Stewardship on restoring mamane trees and other subalpine flora that are endemic and sustainable for the unique habitat of the mauna. Mahalo for your work on this subject and I am looking forward to your final plans. Jessica Kuzmier, Kona
Support the TMT on Mauna Kea

The TMT has my support . . . We need the astronomy industry in Hawaii! Sajean Geer
I support adoption of UH’s draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Robert J. Robinson
Thank you for the opportunity to submit testimony in support of adopting UH's draft Master Plan for Maunakea. This well-crafted Master Plan lays the groundwork for keeping world-class endeavors in astronomy on Maunakea, including currently operating telescopes and the future Thirty Meter Telescope (TMT). UH has continuously improved its management of Maunakea over the last 20 years and has built respect and observance of Hawaiian culture into its plans. I want astronomy to thrive in Hawai`i because it represents the cutting edge of understanding of our place in the universe. This is important for all people on earth. The scientific discoveries that have been made by our telescopes have been first class because Maunakea is a first-class site for them. The various organizations that operate the telescopes, as well as the individual astronomers and support staff, have been wonderful additions to our communities, enhancing educational opportunities for our students and serving as a source of inspiration and pride. In addition, astronomy is a clean industry, which Hawai`i needs as we attempt to diversify our economy. Astronomy under the management of UH has not exploited the people of Hawai`i. On the contrary, it has lifted us all up. This Master Plan will make it possible for these benefits to continue into the future. Mahalo.

--
Ruth E. Robison, Ph D
International Educator (Retired)
743 Kaumana Drive Bldg B * Hilo, HI 96720-1876 * USA
Phone (808) 935.7991
I support adoption of University of Hawai‘i’s draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a remarkable job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawai‘i and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawai‘i. Mauna Kea Observatories are the most scientifically productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea represents Hawai‘ian culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawai‘i Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. Imua Kilo Hōkū and imua TMT!

Mahalo for your consideration.

Celeste Rogers
91-1097 Pa’aoloulu Way
Kapolei, HI 96707
I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlohōkū and i mua TMT!

Mahalo,

Terry Hamada
Born: Kohala, Hawaii (birth place of King Kamehameha)
Raised: Waimea, with the majestic view of Mauna Kea
'62 Grad of Hawaii Preparatory Academy
Parallel Paths and the TMT Telescope

Graham DeVey, Kihei
August 9, 2019
(January 17 2022 Update)

I’m hopeful we can find parallel paths to success in supporting Hawaiian culture and operating the Thirty Meter Telescope in Hawaii.

My wife and I have lived on Maui 24 years. What keeps us here is the lasting and positive influence of the Hawaiian people on us and the community. We’ve traveled widely, and there are few places in the world where an endemic culture has been so welcoming, so pertinent and important to daily life for all. It’s an ongoing blessing for all of us to learn from Hawaiians.

I was a science teacher at Baldwin High School on Maui for 17 years and taught 3000 or more students—Hawaiian, Haole, Filipino, Japanese, Portuguese, and many mixes of these. In my classroom lessons, I was very careful to share lessons in ways that were parallel to Hawaiian teachings, both in content and method. A native of Chicago, I was unqualified to teach Hawaiian culture and felt that the Hawaiian kupuna were much better for that responsibility, through their knowledge, passion, patience, mana, and ability to nurture the next generations. But I took pride in finding ways to parallel Hawaiian teaching and culture with my own science lessons. Many, many students and families have thanked me for my approach.

Before teaching, I had been a corporate engineer for 19 years, with 200 scientists and engineers reporting to me. Developing the next generations of young technical people became a calling for me and brought me to Maui. While on Maui, I’ve helped lots of youngsters gravitate toward the sciences.

Losing our local talent to the Mainland is a huge drain on our resources and a personal tragedy for me. I work with local tech businesses to help hire and train Hawaii-born workers, who know how to live and thrive here. Years ago, I attended a community hearing regarding a telescope for Haleakala on Maui. A well-meaning, silver-haired Haole woman stood and said, “Jobs jobs jobs! They are lying to us. These telescope people will bring in their own people from the Mainland and overseas, and our kids won’t get the jobs! Our Hawaii kids don’t know how to do this difficult work!” She was actually weeping. I wanted to climb over the table and smack her, wake her up. Yes, our local kids can and will do the work, and our tech companies would prefer to hire them, rather than train outsiders to work in Hawaii for 2-3 years before returning to their own homelands. We can, we will train brilliant students of Hawaii to work here, and technical people of all levels to work alongside them. This is what I devoted 17 years of my own life to support, and I am absolutely not alone.

At this point, many Hawaiians are gathered to oppose building TMT on Mauna Kea. I see many loving faces, people I know well, among the participants. Part of me rejoices to see native Hawaiians coming together, sharing their spirit, uniting as one. It is difficult to apply the Hawaiian teachings of antiquity to a confused new world. But I feel their pride, their joy, their mana in uniting behind a cause.

For me, though, this is a bitter, bitter development and my heart is bruised by the irony that a telescope is the focus of so much cultural upheaval. Perhaps University of Hawaii could have been a better steward of the mountain environment, I truly do not know. What promises were made in the past, and kept or broken, can surely be researched and discussed. From what I know, though, the TMT project has attempted to treat its mountain site with respect, and has tried to be open in negotiating, in good faith, to do what is pono.

I have taken native Hawaiian students to the top of Haleakala to use its telescopes, and these students enhanced the experience of our entire group. One Hawaiian boy, late in the evening, took off his shirt and lay on his back, surrounded by telescopes, feeling the earth beneath him through his skin and absorbing the stars above. He was connecting with many generations, and I was honored to help him find his way there.

So, here we are. We are at an absolutely unique time in terms of opportunity, to find parallel paths to help Hawaiians connect to their culture and to attract locally-grown talent towards astronomy careers in their own homeland. We
must stop accepting the norm of losing our bright youngsters to Seattle, to Silicon Valley, to Wall Street, when we could be helping them use the marvelous TMT telescope to explore, and perhaps challenge or even replace our deepest and most fundamental knowledge of the cosmos, right from Hawaii. I cannot imagine a more rewarding time to work together, honoring and rescuing the past, and preparing the way for educational prosperity for generations to come.

Respectfully submitted,

Graham DeVey  
24 Kilolani Lane, Kihei, HI 96753  
Jan 17 2022
I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

--

Pete Wilson
13-927 Kahukai Street
Pahoa HI 96778
808-557-8108
Mauna Kea lease
1 message

Geoff Nelson <suisuncreek@gmail.com>  To: bor.testimony@hawaii.edu  Mon, Jan 17, 2022 at 7:13 PM

This should be simple. It's essential to keep astronomy here. Good for the economy, world class science, and very environmentally aware. Please.

Geoff Nelson
Suisun Creek Vineyards
Support for TMT!

Aloha,

I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has managed Mauna Kea over the last 20 years and while not perfect, I am not aware of any ill intent on their behalf. They performed exceptionally well with respect to obtaining a permit for the construction of TMT and while it is easy to say ‘no’ because of the loud minority, I urge you to stand up and say ‘yes’ to TMT.

TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. I also support removing antiquated sites on Mauna Kea as well in order to not only show good stewardship but also to keep Mauna Kea in pristine order.

Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is part of Hawaiian culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home.

The presence of astronomy on Mauna Kea is a feather in our Hawaii Island community’s cap as well as for our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Mahalo, Len Gambla
Papa'ikou
Ok, this email from Imua TMT gives me clarity on how to proceed for the upcoming UH Board of Regents meeting on Jan. 20 and how best to respond to keep astronomy and TMT alive on Maunakea:

Aloha TMT Supporters,

We need UH's new Master Plan in place in order to renew UH's Master Lease for Mauna Kea and keep the astronomy industry, including TMT, in Hawaii! The protesters will be attacking the Master Plan at a UH Board of Regents Hearing on January 20, 2022.

Please submit email comments in support of UH's Master Plan here: bor.testimony@hawaii.edu

Please send comments by Wednesday January 19!

If you sent comments previously, please submit again. You can send the exact same comments again. Very little changed in the report. The reason for testifying twice is that at the first hearing in December the Regents could only listen and at this hearing they can vote. Two hearings were required and so we need to submit testimony twice to show community support!

Here is a draft comment to give you ideas. Feel free to use it verbatim or to type your own message from the heart:

I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Further background:

Building TMT is a matter of time. The protesters' game is to delay as long as possible in the hope that we give up. Part of this strategy involves changing the management system of Mauna Kea, especially removing the University of Hawaii as the manager of Mauna Kea because that would create chaos for the astronomy community. The reason for this is that UH holds a Master Lease from the Department of Land and Natural Resources to manage Mauna Kea and all the telescopes have sub-Leases with UH based on that Master Lease. If UH's Master Lease is not renewed, it will create legal ambiguity as to whether the subleases are still good and possibly push the telescopes off Mauna Kea. Therefore, the protesters believe that stopping UH's Master Lease stops TMT. That is not strictly true, but it will create enough risk that we encourage TMT supporters to support renewal of UH's Master Lease.

UH is currently applying for that lease renewal. Part of that process is the creation of a number of plans, including a Master Plan. The UH Board of Regents is holding a hearing to discuss the Master Plan. The protesters are using this opportunity to attack the plan as a way of attacking TMT and destroying the astronomy industry.

The reality is that UH actually does a really good job managing Mauna Kea. Mauna Kea is some of the best managed land in the state.

Please let UH, and Hawaii, know that we support TMT and astronomy on Mauna Kea.

Thank you.

Mike Muszynski
Removal of UH's Master Lease for Mauna Kea
1 message

Robert S. J. Hu <hibigheart@gmail.com>  
To: bor.testimony@hawaii.edu  
Mon, Jan 17, 2022 at 6:49 PM

I support the University of Hawaii's Master Plan because it keeps astronomy on Mauna Kea that includes the Thirty Meter Telescope. We in Hawaii, are proud of Astronomy for our keiki in terms of training, inspiration, and that its continual support benefits the United States of America and our mission to enhance our knowledge of scientific knowledge to protect our world. Please keep this project going.

Sincerely,
Robert S.J. Hu
2008 Hawaii State Teacher of the Year
Now a retired teacher residing in Mililani, HI.
January 17, 2022
Strong support for UH Master Plan for Mauna Kea

Barbarak <barbarak@hawaii.rr.com>
To: bor.testimony@hawaii.edu

Mon, Jan 17, 2022 at 9:58 PM

As a concerned resident of the State of Hawaii, I strongly support the UH Master Plan for Mauna Kea and think the Lease should be in the care of astronomers and leaders from UH. I have read the bill in the state house which would leave the care of the telescopes with a board composed of not a single representative from UH nor a single astronomer. Do not allow that to happen. UH has the ability to properly care for all aspects of Mauna Kea and will continue to take positive steps to make Thirty Meter Telescope a reality here. This will definitely be a huge step toward enhancing scientific research and putting Hawaii at the forefront. No other place can offer what Mauna Kea does. Please vote to move Hawaii forward. Keep UH in charge of Mauna Kea. Thank you

Aloha,
Barbara Krasniewski
Stan Krasniewski
124 Kuulei Road
Kailua 96734
I’m an engineer, and thus a believer of science. Science is humanity’s way of understanding how the universe really works: from the unimaginably small to the incomprehensibly large. Scientists study things as fast as light, as slow as rocks and almost everything in between. Why believe in science? When we follow science to do something, we succeed. Engineers exploit that knowledge and experience to make things for people, from the apparently simple like a pin to the mind-bogglingly complex like the International Space Station. Things so big and so complex that no one person is capable of understanding more than a fraction of a subsystem, so far nothing bigger than a transcontinental railroad, or smaller than an atom.

One of these engineering science projects is planned for Hawaii. The planning has taken 10 years so far and the construction will take about seven more. It will occupy about 0.00004% of this island. Less space relative to Mauna Kea than this is to the rest of the newspaper page. Some people feel this is an affront to their belief that the tiniest blemish to what they consider sacred is unacceptable. They are entitled to their belief. Others say that: they are entitled to their belief but have no right to impose it on everyone else. Who is everyone else: the island population, the state population, the scientific community, or the whole world? Jews and Muslims have found a way to share the much smaller Jerusalem Temple Mount, over the centuries Christians have shared it too. Those of a scientific mind maintain that the whole world stands to benefit if the project goes forward, but admit it’s not possible to predict what the benefit will be. Like Ben Franklin said about newfound electricity “Of what use is a newborn baby?”

The International Telescope Committee (ITC) has handled this badly. They claim that they consulted with cultural practitioners before proceeding but as a layman on those issues I see some serious mistakes. First the name TMT sounds like a disease. It’s just an abbreviation for Thirty Meter Telescope, a name that needs explaining and is often explained wrong. Thirty meters, about 100 feet, is the diameter of the primary mirror. No doubt someday the official name will be for some professor of astronomy. Probably someone most of us never heard of. The least they could have done is to give it a Hawaiian name. Just think how much less resistance there would have been. If it was the Kamehameha Telescope there would be no Kamehameha-Go-Home protest signs. King Kalakaua was interested in astronomy and in 1883 had a telescope installed at Punahou School. Kalakaua Telescope would be hard to protest; Hale Kino Hoku O Kalakaua would be even less likely.

The ITC has emphasized the scientific and commercial benefits, all of which are obvious but has done little to promote the cultural connection to Hawaiians whose lives were governed by the stars. There were Hawaiian Royal Hilo Koku, a title which can be translated as Royal Astrologer or Astronomer. Many heiau also served as observatories. Polynesians achieved celestial navigation long before Europeans and they did it without complex instruments. The images collected will be electronic, not requiring observers to peer through a conventional lens, thus they can be shared with the cultural community as well as academia. They could even be on YouTube.

The ITC published and widely circulated promotional artist’s conceptions that until 2017 all depicted the observatory at the peak of the mountain, when the proposed site on the north face is 500 feet lower. Those misleading images still circulate and are the basis for much protest. It’s not like they have not been told. The ITC failed to engage the Hawaiian community. It has lived up to the popular image of eggheads who study more and more about less and less until they know everything about nothing.
I write in my individual capacity to support adoption of UH’s draft Master Plan because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). From what I have heard, UH has done a progressively better job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT.

TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. In my observations, the science community is very respectful and treats the land well. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work.

Astronomy on Mauna Kea is properly viewed as an extension of the Pacific Islands cultures that brought people to these islands. Astronomy has earned high respect. I believe Papa Mau would have supported continued astronomy on Mauna Kea.

Astronomy on Mauna Kea provides opportunities for our youth to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. As an educator, I hope some of my students will have opportunities associated with astronomy and the TMT.

On a personal note, as an undergraduate I, among others, had the opportunity to work for “big science” in a high energy physics lab exploring the nature of fundamental particles. It greatly improved my academic experience and lead to my life-long involvement in computer science-related work. TMT will make possible many such opportunities for the younger generations in Hawaii.

The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please extend the Master Plan and keep astronomy on Mauna Kea.

Respectfully, E Malama Pono,
Daniel C. (Dan) Smith, PhD
1-808-462-8346, Mobile
I Support Astronomy on Mauna Kea
1 message

Cheryl Tanguay <cheryl.tanguay@gmail.com>                      Mon, Jan 17, 2022 at 11:30 PM
To: bor.testimony@hawaii.edu

I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work.

Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Respectfully submitted,
Cheryl Tanguay
Kailua-Kona, HI 96740
Maunakea is The Sole responsibility of Every Kanaka! We are and Will always be stewards of E Hawaii Au! Kuleana Stewardship is a Kanaka Only Process. The State of Hawaii and The University of Hawaii is of the colonizer Process! The illegal stewards have done the damage far beyond their original responsibility. Celestial Scientist and their Process have disrespected our Maunakea, Maunaloa, Kahoʻolawe, and all of E Hawaii Au! What makes it PONO In this TIME and day for any MASTER Plan to be excepted, by the Kanaka Stewards Who have always been left Out of any MASTER Community Planning of anything, especially Maunakea! I and my entire Ohana Puou Kunewa(HewaHewa Nui) OPPOSE the STATE OF HAWAII, THE UNIVERSITY OF HAWAII BOARD OF REGENTS AND EVERY FOREIGN COUNTRY PARTICIPATING In this or any MASTER Plan to continue with the idea of TMT! You respectfully Do Not have my Consent! You Do Not have consent from Ohana HewaHewa Nui!
Oppose

Your Testimony/Comments

Maunakea is The Sole responsibility of Every Kanaka! We are and Will always be stewards of E Hawaii Au!
Kuleana Stewardship is a Kanaka Only Process. The State of Hawaii and The University of Hawaii is of the
colonizer Process! The illegal stewards have done the damage far beyond their original responsibility. Celestial
Scientist and their Process have disrespected our Maunakea, Maunaloa, Kahoʻolawe, and all of E Hawaii Au!
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BOARD OF REGENTS AND EVERY FOREIGN COUNTRY PARTICIPATING In this or any MASTER Plan to continue
with the idea of TMT! You respectfully Do Not have my Consent! You Do Not have consent from Ohana
HewaHewa Nui! Mahalo For allowing my TESTIMONY!

Actions

Close

Export
**Public Testimony Form - University of Hawaii Board of Regents**

*Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.*

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**Your Testimony/Comments**

As long time residents of the Big Island (since 1999) my wife and I both are strong supporters of going forward with the Thirty Meter Telescope, fully respectful of native Hawaiian rights and concerns and with due diligence in maintaining the site properly. There is no reason science cannot co-exist with religion and cultural practices, as long as both sides respect one another. This is not an oil pipeline or luxury resort built for economic gain. It’s in the pursuit of science and knowledge and, in the long run, wisdom and humility. Thank you.
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<th>Your Name (required) *</th>
<th>Kelly Kraemer</th>
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<td>Alum (PhD, Political Science, 2000)</td>
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<td><a href="mailto:kkraemer@csbsju.wdu">kkraemer@csbsju.wdu</a></td>
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**Your Testimony (pdf or word)**

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**Public Testimony Form - University of Hawaii Board of Regents**

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<td>BOR VI.E. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands — E Ō I Nā Leo (Listen to the Voices)</td>
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<td>Aloha Your opposition to this plan would be greatly appreciated UH has a history of mismanagement of Mauna a Wakea and this plan highlights the continuation of this A sacred place designated as conservation land and a source of our water calls for better management by a better entity chosen by those who truly care for it's preservation and not it's desecration and destruction</td>
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<td>TMT is important to the whole world. While I respect the feelings of the Native Hawaiians who are protesting, TMT will benefit ALL of mankind. Science is imperative to all of us. We cannot dwell in the past and must look ahead.</td>
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E. Kalani Flores <ekflores@hawaii.edu>  
To: bor.testimony@hawaii.edu, David Lassner <david@hawaii.edu>, Bonnie Irwin <bdirwin@hawaii.edu>  

January 17, 2022

FR:  E. Kalani Flores, representing the Flores-Case ʻOhana (08ef80@gmail.com)

RE: Written Comments for Draft Master Plan for the University of Hawaiʻi Maunakea Lands (dated January 11, 2022)

[1 attachment]

Flores-Case Ohana Comments 1-17-22.pdf  
3375K
Awaken with aloha and truth.

January 17, 2022

FR:  E. Kalani Flores, representing the Flores-Case ‘Ohana (08ef80@gmail.com)

RE:  Written Comments for Draft Master Plan for the University of Hawai‘i Maunakea Lands (dated January 11, 2022)

INTRODUCTION

The Flores-Case ‘Ohana provides the following comments once again regarding the Draft Master Plan for the University of Hawai‘i Maunakea Lands (“draft plan”). Despite us submitting comments to the University of Hawai‘i (UH) Board of Regents (BOR), Maunakea Management Board (MKMB), and Office of Mauna Kea Management (OMKM) on several occasions pertaining to Mauna a Wākea as well being a petitioner in two contested case hearings pertaining to the Thirty Meter Telescope (TMT), the University of Hawai‘i (UH) failed to contact us and other Kanaka Maoli (aka Native Hawaiian) cultural practitioners during the initial process of drafting this plan several months ago. We were only contacted by email on October 14, 2021 at the ‘eleventh hour’ when comments were due on October 26th. This extremely late attempt at contact is perceived more as an afterthought or as a formality to state that consultation was attempted. There are no excuses why we and other cultural practitioners and kia‘i were not contacted earlier when the UH system, governmental agencies, elected officials, astronomy organizations, commercial tour operators, etc. were given the opportunity to review earlier pre-publication versions of this draft plan.1 At the time, there was insufficient time of only a few weeks to examine this extensive draft plan and also provide comments. The Flores-Case ‘Ohana met with several authors of the draft plan to get further clarity on certain parts of the plan and also provided oral comments on October 21st. This was followed up with a compilation of

1 See: Appendix A - Summary of Outreach and Consultation
written comments that were initially submitted by October 26, 2021. Additional comments are being submitted at this time along with previously submitted comments.

Despite nearly 1,500 individuals submitting comments regarding the draft plan (dated September 2021), the current draft plan (dated January 11, 2020) included revisions that were primarily “minor copyediting changes” without any substantial changes. Why should members of the public including Kanaka Maoli engage in this process when input and comments are systematically dismissed and ignored?

In addition, the communication between the Center of Maunakea Stewardship (CMS) and members of the public is not timely and quite pathetic. Case in point, when this matter was brought forth for a special BOR meeting on December 16, 2021, CMS only sent us an email regarding this meeting the day before on December 15th as noted in the screenshot of the email below.
The UH needs to comprehend that Kanaka Maoli are not just stakeholders, but are actually “right holders” as it pertains to the natural and cultural resources of Mauna a Wākea and that their efforts of proper consultation are seriously lacking.

GENERAL COMMENTS

I. UH continues a pattern of not listening

The title for this draft master plan, *E Ō I Ka Leo* (Listen to the Voice), is in contradiction to how this plan was drafted with the narratives systematically ignoring decades of community and Native Hawaiian concerns and comments regarding the issues surrounding the mismanagement of Mauna a Wākea by the University of Hawai‘i (UH). This same issue was also identified in the *Mauna Kea Science Reserve Master Plan* (“2000 Master Plan”) as noted below:

*Cultural Sensitivity*: Issues of cultural sensitivity were raised repeatedly. The sensitivity of the plan to Hawaiian cultural values was mentioned and questions were raised as to whether community voices would be heard.

Firstly, the voice of the Mauna Kea observatories is clearly the overriding voice throughout this draft plan. Whereas, the voices of Kanaka Maoli (Native Hawaiian) cultural practitioners were excluded during the initial process of drafting this plan as well as with the current version.

Nearly 1,500 individuals submitted comments to the CMS by October 26, 2021. Likewise, the Flores-Case ‘Ohana engaged in this process and provided written comments via email and also provided comments during a video conferencing meeting. However, the revisions made to the current draft plan were primarily “minor copyediting changes” without any substantial changes despite what was stated in UH News, *Public input requested for new Maunakea Master Plan* (Sept. 12, 2021), as noted in the solicitation below.

*The University of Hawai‘i is seeking broad community feedback on a draft of a new Maunakea Master Plan that will guide land-use decisions on UH-managed Maunakea lands.*

*All public comments/feedback will be taken into consideration as the draft is amended before going to the UH Board of Regents for review and possibly further changes before final approval, which is expected in early 2022.*
A policy including guidelines for consultation with Kanaka Maoli communities and organizations should be included in this draft plan. It’s very apparent that UH administrators, programs, and consultants/contracted firms are not familiar with the process and methods of proper consultation with Kanaka Maoli. Examples of how agencies should engage Kanaka Maoli are included as attachments and/or links in the footnote. Even though some of these procedures are applied at the federal level and in Section 106 actions, they are still applicable to the UH in how to engage and consult with Kanaka Maoli.

Why does the UH ask the public for input and comments/feedback, but is not going to apply any constructive critique and relevant suggestions to this draft plan? This is another example of the systematic pattern of the UH not listening. That’s why the draft plan should more accurately be called, *Hoʻokuli I Nā Leo* (Deaf to the Voices).

**II. UH exemplifies unethical cultural appropriation**

This draft plan is a prime example of unethical cultural appropriation and exploitation of Hawaiian culture through the distortion, and misuse of traditional knowledge, cultural expressions, and Hawaiian terms. The Foreword [pp. x-xiv] has taken ʻōlelo noʻeau and clearly distorted the meanings of these traditional sayings outside of their original cultural context. There is an attempt to promote astronomy and further development on Mauna a Wākea through a western worldview cloaked under these Hawaiian sayings. In addition, Hawaiian phrases and terms are peppered throughout this document in an attempt to give an illusion that this is a Hawaiian plan and to make it more palatable to Hawaiians. These displays of misappropriation of Hawaiian cultural elements are disrespectful and are also considered a form of desecration. Likewise, as noted in UH Mānoa’s guidelines, “Cultural appropriation is a form of intellectual plagiarism.” As an institution of higher learning, the UH administration and programs should be held to the same strict ethical standards it expects of their students.

[see attached specific comments regarding the Foreword]
III. UH fails to acknowledge issues with its management

In this draft master plan, the UH failed to acknowledge and formally apologize for their role as the lessee of the Mauna Kea lands that has resulted in cumulative impacts upon its resources that have been determined to be substantial, significant, and adverse.

[see Flores-Case ‘Ohana detailed comments previously submitted October 26, 2021]

IV. UH fails to uphold its statutory and constitutional obligations

The UH continues to fail their affirmative duty and legal obligations to protect the natural and cultural resources, public land trust, and rights of the public and Kanaka Maoli connected with Mauna a Wākea. The overemphasis of the promotion of astronomy development and activities has overshadowed the protection of the afore-mentioned in this draft plan.

[see Flores-Case ‘Ohana detailed comments previously submitted October 26, 2021]

V. UH fails to be in compliance with its management plans

Before UH approves a master plan for those lands that include the Mauna Kea Science Reserve (MKSR) and the mid-level facilities at Hale Pōhaku, the UH should ensure it’s in compliance with the BLNR approved management plans and conditions of the Conservation District rules. Also, it’s important to maintain compatibility and consistency between this draft plan and previously approved management plans. In addition, this draft plan fails to enforce UH’s compliance with these management plans.

[see Flores-Case ‘Ohana detailed comments previously submitted October 26, 2021]

VI. Adverse impacts upon the sacred piko and resources of Mauna a Wākea

The actions of the UH to advance the overdevelopment of astronomical facilities within an environmentally and culturally sensitive landscape has caused adverse impacts and irreparable harm upon the sacred piko as well as the natural and cultural resources of Mauna a Wākea. This draft plan fails to protect the sacred nature of this piko by stripping all references to this aspect that’s been referenced in various accounts. In fact, the 2000 Master Plan included at least 25 references to this mountain’s sacredness. Whereas, this draft plan reduced it to only one flawed reference as such, “for some the mauna is sacred.”

5

Flores-Case ‘Ohana - Draft Master Plan Comments 2
The sacredness of this mountain is well known and documented in several traditional accounts.

[see Flores-Case ‘Ohana detailed comments previously submitted October 26, 2021; also see pages 29-35 extracted from The Report of the Hui Hoʻolohe, 2018]

VII. Adverse impacts upon ancestral akua, kupua, and kupuna

The actions of the UH to advance the overdevelopment of astronomical facilities within an environmentally and culturally sensitive landscape has caused adverse impacts and irreparable harm upon those akua, kupua, and kupuna of Mauna a Wākea. This draft plan fails to protect them from further development.

[see Flores-Case ‘Ohana detailed comments previously submitted October 26, 2021]

VIII. Adverse impacts upon cultural resources and historic sites

The actions of the UH to advance astronomy overdevelopment within an environmentally and culturally sensitive landscape has caused adverse impacts and irreparable harm upon those cultural resources and historic sites connected to Kanaka Maoli and their practices. This draft plan fails to protect these resources and sites from further development.

[see Flores-Case ‘Ohana detailed comments previously submitted October 26, 2021]

IX. Adverse impacts upon Kanaka Maoli customary and traditional practices

The actions of the UH to advance astronomy overdevelopment within an environmentally and culturally sensitive landscape has caused adverse impacts and irreparable harm upon cultural sites and traditional and customary Kanaka Maoli cultural, spiritual, and religious practices. This draft plan fails to make commitments to protect these practices.

[see Flores-Case ‘Ohana detailed comments previously submitted October 26, 2021]

X. UH has failed to prepare an EIS according to HRS, Chapter 343

The UH has not prepared an Environmental Impact Statement (EIS) for this proposed Master Plan in accordance with Hawai‘i Revised Statutes, Chapter 343. Whereas, a Final EIS was completed prior to the UH BOR adopting the 2000 Mauna Kea Science Reserve Master Plan.
SPECIFIC COMMENTS
[see Flores-Case ‘Ohana detailed comments previously submitted October 26, 2021]

CONCLUDING REMARKS

Members of the Flores-Case ‘Ohana have participated at all levels of the public review process pertaining to Mauna a Wākea such as attending board meetings and hearings, submitting testimony, entering into contested case hearings, and filing legal appeals. Based upon our personal experience, it's very evident that the State (inclusive of the Governor, Attorney General Office, BLNR, DLNR, UH, BOR, OMKM, CMS, their contracted law firms, hearing officers, other agencies and individuals) have taken very adversary positions and actions against Kanaka Maoli cultural practitioners which have resulted in detrimental impacts upon our cultural practices and traditions associated with Mauna a Wākea. Likewise, the State has systematically ignored community and Kanaka Maoli concerns dating back to the 1970’s regarding the overdevelopment of the environmentally and culturally sensitive landscape of this sacred mountain.

The written comments presented in this document highlight significant deficiencies and lack of accountability in this review process. Comments put forth are specific to the items presented and were not intended as an assessment of all aspects of this current draft plan as there was insufficient time and resources to do so. Other parts of this draft plan that aren’t commented upon does not constitute an endorsement or agreement with these sections. We reserve the right to further comment on this draft plan in the future. These comments are submitted on behalf of the Flores-Case ‘Ohana.

The true aspect of stewardship entrusted to the UH for our precious and public lands in conservation districts is to ensure that these significant areas are acknowledged, preserved for present and future generations, and not systematically destroyed. In essence, the astronomy development on the summit of Mauna a Wākea has been conducted as a commercial enterprise under the guise of science, educational, and economic opportunities that has resulted in the cumulative impacts upon the natural and cultural resources being substantial, significant, and adverse due to over 50 years of mismanagement.

Everyone is responsible and accountable for their intentions and their actions in the wao akua, this sacred space known to our kupuna as Mauna a Wākea. On this mauna, one must interact in a manner that is pono, upright in the presence of the ancestral connection that binds us through space and time to teachings, traditions and lifeways that have continued because of the kuleana that has been passed down from one generation to the next.
It is important to remember that many peoples, including Kanaka Maoli, have a reverential relationship with the living Earth as our 'Mother' or 'Grandmother'. The cultural perspective of mālama ʻāina and aloha ʻāina, to care for the land and nature with sincere love and respect, is at the heart of Kanaka Maoli cultural traditions. For those who are listening, what is our ʻāina trying to tell us during these times of change?

Kanaka Maoli and their allies throughout Hawai‘i and the world have risen like a mighty wave and are committed to protecting their beloved Mauna a Wākea from further desecration and destruction. To gain an in-depth understanding of the history and issues surrounding this sacred mountain, one should read, *Reclaiming the Past for Mauna a Wākea’s Future: The Battle Over Collective Memory and Hawai‘i’s Most Sacred Mountain*, by Terina Kamailelauliʻi Faʻagau. (see attachment)

In conclusion, this current draft plan is basically the same as the previous draft version without any substantial changes despite comments submitted by nearly 1,500 community members and organizations. This draft plan fails to restore lōkahi (harmony/balance) on Mauna a Wākea. The manner in which the various versions of this draft plan were orchestrated just reaffirmed that the UH is inept of consulting with Kanaka Maoli and the broader community. Likewise, it’s very evident that the UH is incapable of properly managing these culturally and environmentally sensitive lands of Mauna a Wākea even with this proposed plan. As such, the appropriate action would be to transfer the management of these lands to a non-governmental Native Hawaiian entity.
E Ō I KA LEO (LISTEN TO THE VOICE)
FOREWORD

Mauna Kea, kuahiwi kū ha’o i ka mālie.
Mauna Kea, standing alone in the calm.²

This ‘ōlelo noʻeau (Hawaiian proverbs and poetic sayings) recognizes and expresses the sentiment that Maunakea is a source of inspiration to many people. Steadfast always, the mauna (mountain) compels us to gaze upward in search of the unknown, thereby engendering a sense of wonderment and hope.³

Maunakea is linked to the Hawaiian people, their culture, cosmology, and for some the mauna is sacred. Its resources serve as the source for a diverse range of spiritual, research, educational, recreational, and subsistence experiences that define the significance of the mauna. Its extraordinary blend of topographic and atmospheric qualities make Maunakea the most desirable location for ground-based astronomy in the northern hemisphere, and the exceptional combination of alpine and sub-alpine ecosystems in a tropical environment make it ecologically unique as well. If there is truth to the idea that the nature of “place” shapes who we are as a community, Maunakea certainly stands alone as a preeminent example of this.

The quest to understand their beginnings is an inherent drive in all humans, and it has led virtually all cultures to develop rich stories and beliefs regarding their origins. For early Hawaiians, Maunakea was the origin – the first-born island. For modern astronomy, Maunakea provides a window on the origins of the Universe. Integrating these diverse and rich perspectives is both the purpose and challenge with this plan and thus its name, E Ō I Ka Leo (Listen to the Voice), for it is in listening deeply to the many values attached to Maunakea that the knowledge of who we are will be revealed, and our humanity affirmed.

The mauna stands alone, calm in the midst of all forms of storm. It reminds us that our varied interests, as diverse and sometimes divisive as they may be, are in fact woven as lei (garland) through the innate human drive to understand our beginnings, and it is that lei which connects us all as one community.

Strengthening Connections to Place

He ali‘i ka ʻāina; he kauwā ke kanaka.
The land is a chief; man is its servant.³

Foundational values that guide UH’s stewardship and inform E Ō I Ka Leo derive from key tenets of the Hawaiian worldview, which holds that cultural and natural landscapes are one and the same. In this worldview, land is not a commodity but rather an esteemed elder in the Hawaiian family

²Pukui, 1983, No. 2147
³Pukui, 1983, No. 531

Comment: This is another example of cultural appropriation when Hawaiian sayings are inserted into a document to make it appear "cultural" without any relevance to the content. Recommendation: Delete this ʻōlelo noʻeau.
system. The Hawaiian relationship to the land is one of reciprocity: people serve the land which in turn provides for the people. In this view, it is the collective responsibility of UH, Native Hawaiians, the Hawai‘i Island community, and the astronomy facility staff who benefit from Maunakea’s remarkable viewing conditions, to behave in ways that sustain Maunakea’s gifts of spirit, life, discovery, learning, and connection for future generations. The purpose of E Ō I Ka Leo is to help all fulfill their responsibilities to the mauna and to one another.

Part of this responsibility is to integrate the knowledge and traditions of the ancestors into our plans and practices wherever we can. For example, the Kumulipo (an important Hawaiian creation account) describes Maunakea as the first-born mountain son of Wākea (sky father) and Papa (earth mother), who were also progenitors of the Hawaiian race. Maunakea is symbolic of the piko (umbilical cord) of the island-child, Hawai‘i, and that which connects the land to the heavens (Maly, Piko Kaulana:v). Comment: The reference to the Paupani-a(ʻa)kea is incomplete according to source cited. Also, this is another example of cultural appropriation with the inexact comparison to astronomical qualities. Paupaniākea is another name for Wākea referenced in the Kumulipo. The name may mean “End of the closing up of light” or “Opening up of light” (Beckwith, Hawaiian Mythology:294) which in either case accurately describes some of the unique spiritual and astronomical qualities associated with the summit area. Further, as Pukui and Elbert note ‘Āpapalani refers to the “Legendary upper stratum and abode of the gods [or] chiefs of the highest rank, as ni‘aupiʻo.” (Pukui-Elbert:28). In researching these names Pualani Kanahele notes:

“‘Āpapalani is the space above the earth’s atmosphere where the oxygen is thinner. On the mountain it is where the greenery subsides and disappears, thins out like the oxygen. The space below where the daily rain clouds meet the mountain is ‘Āpapanuʻu. Therefore, we have two nomenclatures, the very top is Paupaniākea and ‘Āpapalani below”.

It is UH’s intent that this Master Plan serve as a framework for aligning land use decisions, management actions, and educational programs in a way that strengthens everyone’s connections to this special place by integrating traditional and contemporary knowledge and practice where possible. Achieving balance in the development and management of the resources can be accomplished only when there is a greater understanding and appreciation of the many values held by the community regarding Maunakea.

History, Voice, and Vision

I ka ʻolelo no ke ola, i ka ʻolelo no ka make.

In language there is life, in language there is death.4

Words can heal, words can destroy.

Historians write from a worldview that is shaped by their backgrounds, experience, and values. In Hawai‘i, for many years this meant that American historians often neglected and even denigrated traditional Hawaiian values and culture. That has changed substantially in recent decades with Comment: This is another example of cultural appropriate when Hawaiian sayings are inserted into a document to make it appear "cultural" without any relevance to the content. Recommendation: Delete this ʻōlelo noʻeau. Comment: What is being done through cultural appropriation that grossly distorts traditional Hawaiian values and culture in this Foreword by the author(s) of this plan is similar to what "American historians" have done.

4 Pukui, 1983, No. 1191
Hawaiian voices increasingly expressed and heard. As a result, historical events and political injustices experienced by the Hawaiian people are now well-documented, as are the devastating impacts those experiences have had on the well-being of Hawaiians. The broadened discussion by voices of indigenous peoples has given rise to a movement that seeks to rectify harm caused by these past injustices. **Comment:** The over-development on Mauna Kea has been echoed by many members of the community consistently dating back to the 1970's - not just by Hawaiians.

The resonance of the native Hawaiian kāhea (call) to compensate for past injustices is clearly reflected in the ongoing conflict over the development of the Thirty Meter Telescope (TMT) and with what is viewed as over-development on Maunakea for astronomy in general. At the same time, other community voices have consistently spoken in support of astronomy on Maunakea as an important element of the island’s future economic and educational base. This has motivated many in the community to pursue a vision for Hawai‘i of a more diversified economy that includes greater support for research, education, and technology and less dependence on tourism.

UH believes that whether one supports or opposes astronomy on Maunakea in general and/or TMT in particular, and regardless of whether one believes that UH is the most appropriate agency to manage the upper reaches of the mountain, if Hawai‘i is to achieve its goals of building a more diverse and sustainable future for this and future generations, the path forward is through a knowledge-based economy inclusive of disciplines grounded in science and technology guided by the values of the community. A central question for Maunakea then becomes “do the values of our community allow for Maunakea to be a place where a component of this future (astronomy) is pursued beyond 2033 when conducted under a comprehensive management plan?”

How one answers that question is a function of the diverse and sometimes conflicting views one holds regarding land use, governance, and stewardship. This diversity of opinion was most recently observed in the findings of the Department of Land and Natural Resources’ evaluation of UH’s implementation of the Maunakea Comprehensive Management Plan, which stated that “…the opinions of members of the public regarding UH stewardship of Maunakea has often depended upon whether they support or oppose telescope development on the mauna.”

Unfortunately, E Ō I Ka Leo cannot resolve past historical injustices and the consequences inflicted upon and experienced by Native Hawaiians because of them. Neither can it resolve the fundamental question of whether State and Federal policy should continue to endorse astronomy on Maunakea. While both are critical topics for the State, these are policy issues that UH alone cannot decide, and their resolution is beyond the scope of this Master Plan. What E Ō I Ka Leo attempts is to incorporate the diverse values held by the community into a framework that supports discourse and decisions leading to a balance of interests and responsibilities and a unifying vision for Maunakea as a unique source of learning.

**Comment:** It's true that this plan cannot resolve all "past historical injustices and the consequences," but UH could start by acknowledging and formally apologizing for their role as the lessee of the Mauna Kea lands that has resulted in cumulative impacts upon its resources that have been determined to be substantial, significant, and adverse. In addition, UH could also acknowledge that the UH Mauna Kea managed lands are within the ahupua‘a of Ka‘ohe, moku of Hāmākua, that were designated as Government Lands of the Kingdom of Hawai‘i as the result of the Mahele Act of 1848.

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Extending the Reach

‘Aʻohe pau ka ʻike i ka hālau hoʻokahi.
All knowledge is not taught in the same school.6
One can learn from many sources.

In 2016, UH collaborated with the astronomy-community in sponsoring the Envision Maunakea Initiative, a series of conversations led by its community partner, Friends of the Future. These conversations identified the aspirations of community members regarding what Maunakea means to them and how they would like to see it stewarded. The intent was to improve UH’s understanding of why Maunakea is important to people and to use this feedback to inform UH and astronomy community’s plans for the future. The conversations were intimate and, in many instances, deeply personal, with the shared experiences documented in The Report of the Hui Hoʻołohe.7

Two key insights revealed by that collaboration have informed this plan. First, all groups agreed that it is a privilege to experience Maunakea, whether that be as a cultural practitioner, recreationalist, tourist, astronomer, commercial tour operator, or other. Maunakea uniformly is described as moving minds and spirit, and lives have been changed because of one’s relationship to the mauna even if for only a single experience. Second, the mauna is the teacher. While each of us brings with us a set of values, a knowledge base, and tools that shape our experience of it, in the end it is the mauna that teaches us both what we came to learn and that which it decides we need to learn.

Maunakea is not just a valuable astronomical resource, it is a unique natural, biocultural, and social ecosystem that has much to teach us about our origins, future, human nature, history, ʻike Hawaiʻi (traditional knowledge), climate, and so much more. E Ō I Ka Leo proposes to broaden the focus of UH’s facilities and resources at Halepōhaku to support the educational and research opportunities that Maunakea offers in fields other than astronomy. The exact nature of the educational opportunities that will be offered are still to be developed, but in concept would be supported by Halepōhaku serving as a multi-disciplinary field station for research and teaching. Facilities and programs offered there would serve as a venue for focused, customized, high-touch, educational programming for college and secondary school students; community, professional, affinity groups; and the general public. It would be a place for integrating multiple disciplines and addressing diverse topics.

Foundational to future educational programming and field work would be building a solid cultural base of ʻike Hawaiʻi and nohona Hawaiʻi (traditional practices) underpinning all offerings and opportunities. CMS and ʻImiloa are partnering to develop this programming in collaboration with other Hawaiian cultural resources across UH and in the community with a common goal of inspiring the intellectual and personal growth of all those who are privileged to visit, learn, and work there.

Comment: The plan fails to disclose that the Envision Maunakea Initiative was a process not open to the general public and that participants were only included by invite.

Comment: In the same manner that this Foreword used Hawaiian accounts inappropriately, it also misrepresented the accounts in The Report of the Hui Hoʻołohe. Firstly, the term "privilege" isn't even found in this report. Instead, several participants make reference to their "experience" as being "profound" and "spiritual." Likewise, participants in this report don't articulate "the mauna is the teacher." In fact, the term "teacher" is only written once on page 16 in a totally different context. The key insights revealed in this report are not what is being presented in this paragraph.

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6 Pukui, 1983; #203
7 Envision Maunakea, 2018
Ancestral Ways, New Beginnings

_Hahai no ka ua i ka ululāʻau._
Rains follow the forest.\(^8\)
Knowing this, Hawaiians hewed only what was needed.

Hawaiians understand how special Maunakea is as both a source of inspiration and for the value of its unique natural resources. Guided by this perspective, this plan helps demonstrate UH’s relationship to Maunakea as a significant cultural and historical landscape where astronomy is a legally permitted use, commitments are honored, and use of its resources are balanced in order to achieve a sustainable future for the diverse values our community ascribes to this special place.

In recognition of this, E Ō I Ka Leo seeks to ʻāwili (weave) the diverse values Maunakea represents, striving to find balance amongst the community’s many approaches to understanding our origins and encouraging people to collaboratively protect this special place. Finding balance is a never-ending, constantly evolving journey that aligns well with UH’s overall purpose. Accordingly, E Ō I Ka Leo establishes a framework for moving forward with the understanding that, as with all sail plans, the navigators must constantly be aware of, adapt, and adjust to changing winds and seas that we encounter during our journey.

\(^8\) Pukui, 1983, #405

*Comment:* This is another example of cultural appropriate when Hawaiian sayings are inserted into a document to make it appear "cultural" without any relevance to the content.

*Recommendation:* Delete this ʻōlelo noʻeau.
At every session, participants referred to Maunakea as “sacred,” and talked about their spiritual connection with it, but they did not speak with a single voice. Some used “sacred” in a literally religious sense: the ways in which their religion declared the mountain, especially the summit, to be sacred, and to be venerated in religious rituals. For example, a number of participants spoke of the upper regions as wao akua, “place of the gods” (as opposed to the lower regions, wao kanaka, “place of ordinary human beings”).

Although some participants described religious ceremonies they performed at lower elevations, overwhelmingly it was the summit that was referred to as “sacred.” When no particular ceremony or practice was described, participants often described it as “special,” or “spiritual.”

Certainly the summit was sacred in the past. Participants spoke of who would be allowed into the sacred zone, and who would not. Participants commonly linked sacredness to behavior, talking about what should or not be done there in the present—what might be called “proper behavior.”

We heard very little “theology,” and it’s not hard to see why. It was clear to us that although some of our participants were well versed in matters of Hawaiian religion, they mainly talked to us about behavior in the sacred areas.
This series of statements speaks to individual behavior—how to act. Other participants spoke about what should be done (or not done), which is a different matter; we treat that elsewhere.

— It is a spiritual place. A place for the gods. Everyone who’s lived here knows that it’s sacred. You know that when you go up there you’re really connecting with your family. You wouldn’t do anything bad or disrespectful. It’s just an unspoken thing that you know.

— Maunakea is a sacred place, like a religion. For us it’s like going to church. We don’t announce we’re going to church, we just go.

— There are realms that don’t belong to us. When we are niele [nosy], we interrupt forces that work together naturally. It is not for humans; it is not our place, not our kuleana. That realm is talking to us.

— Sacred is about experiencing it. The way you interact is different when a place is sacred. You walk lightly, and you feel that on Maunakea. It’s very personal to you. I don’t have to understand your sacredness to understand that it’s important to you.

One participant gave us examples of what can happen in the sacred regions. We heard a few similar stories:

— These things happened in the highest region. One story is of the two convicted felons who, after their visit [to the summit] with me, cried like babies, went home and became outstanding citizens, fathers, husbands and community members. I also informed you about the broken family (father and son) who for the first time hugged each other and cried like babies. The son straightened out his life, married, bought a house and became a good father. He now maintains a good relationship with his father.

Some participants explicitly linked sacredness with exclusion—in other words, the only proper activities were those associated with Hawaiian religious practices. Others were more inclusive. There was disagreement as to whether a summit kapu meant that no one should go there, or that people should only go there if they had a purpose. Although this wasn’t always stated so directly, the notion that visits to the upper regions should be done for serious reasons was commonly expressed.

— Recently during a solstice ceremony, a gentleman from India asked if he could participate. “Is it OK if I do my own practice?” When it was his turn at the ahu, he participated in his language with his practice. Hawaiian practice is to be one with the earth.
Mālama and aloha everything around us that nurtures us into ancestry. Every native person has the same practice, as long as you know what Hawaiian practice is, join us. Allow sacredness to happen in a sacred place.

— Lots of misunderstanding about sacredness. We are talking about the entire mountain. Whatever that person, they have to understand the summit is sacred/spiritual. It is not to keep off, it is to go to communicate with the supreme being.

— When I think of people telling me what should be up there, I think that’s one man’s opinion. As for the akua, they are in a different realm. What we do doesn’t mean anything to them. They will be here long after we’re gone.

Some participants understood that Maunakea is considered sacred by some, but didn’t feel it personally:

— I’m Native Hawaiian and I don’t think it’s sacred; maybe because that was not passed down to me.

Participants often referred to the tension between the sacred and the secular (meaning recreational, scientific, commercial, and other non-religious activities). It was common for someone to describe Maunakea’s sacred nature and then follow up by talking about what, therefore, should not be done—sometimes very generally, and sometimes very specifically. Here are some statements taking up different themes: influences of the outside world, using the mountain’s power for one’s own gain, needing to have a reason for going, and one that was often repeated in other contexts: go there if you have reason to, but leave as soon as you can.

— The mountain is sacred. So why must we encroach? We keep encroaching whether in ocean and on land. Where is the end? To me, beauty is in the natural setting; that’s beauty to me. To me, a lava field is beauty. Why must we alter the land so much? I’ve seen a lot in 77 years. I’ve never spoken like this before and it is time that I speak. Sacredness and mana of the mountain is the most important thing to me.

— Talking to a kupuna, I asked her about the mauna, and she said “Never been there. I don’t need to go there.”

— My granddaughter asked if I was going to the mountain [for the protests]. I said, “No, and, if you go, make sure you know why. If you’re only going to shout or going because someone else is there, that’s the wrong reason.”
— I agree the mountain is very, very powerful. People can use power in not so good ways, and I believe firmly a lot of people are using power from the mauna in a bad way for their own personal gain. Unless people can stop and look at the power as a positive thing, we will be fighting for a long time.

— [There are] ancient springs on Maunakea only the highest could attend to; ali‘i were allowed in those realms. There was a deep reverence...do not stay or dwell...go and leave.

Although there was explicit discussion of sacred sites at Hale Pōhaku, almost all talk of the sacred, not surprisingly, centered on the summit. At every ‘aha kūkā session we encouraged the participants to talk about the entire mountain, not just the summit. But almost invariably the talk returned to the summit regions.

It was mainly the ranchers, hunters, naturalists, and artists who gave us “the rest of the mountain” statements, and although not many of these touched on the sacred as such, a great many of them touched on the spiritual, almost always in a personal sense.

— People have lived here for generations and their mana is still here. It is in the soil. When we eat from the land, we take that in. Rocks, trees, it’s all here. There is energy. I think the connection to Maunakea is, for a lot of people, like it’s almost a fulcrum where it all comes together in a powerful place.

— I think there are people within every religion, as well as people who are nonreligious, who experience the natural world as sacred, whether they use that term or not. In a sense I believe the whole earth is sacred. But there are certain places that are exceptionally powerful—you can feel the energy. Maunakea is one of those places.

— In times past, there was no separation between the “sacred” and the secular. Religion and life were inextricably intertwined. A multiplicity of deities guided daily lives, were revered and were honored frequently by ritual. We seem to have lost much of our familiarity with the natural world, the wonderful outdoors. We proclaim the heights of our mountains “sacred,” and for many they are indeed places where divinity resides.

More commonly, we heard our participants describe their relationship to Maunakea as “spiritual” in a non-religious way. We said earlier that we learned never to anticipate where a participant’s narrative would go, which was one of our joys. Here’s a hunter’s description complete with a beautiful insight.

— [Maunakea is one of the] sources that ground us, nurture us. It’s hard to explain; it’s more than just the clean air, the feeling
you get sitting on a rock, not thinking about hunting. It has a spiritual impact when you’re up there. It is all simplicity and complexity. It’s perfect. That is one of the treasures we have and we really need to share with the world. It’s that place that our kūpuna could recognize and utilize for their spiritual purposes. Aloha ‘āina and mālama ‘āina are intended to be spiritual acts.

An entomology graduate student relates her understanding of how the mountain works:

— The spirituality is definitely not religious for me. I’m on a cinder cone looking at bugs and even though it rained hours ago, you can hear water percolating underground, the breeze in your face . . . I cannot explain it . . . that’s my definition of spirituality.

Many participants spoke of the quiet, the peace. For example,

— I think it’s the peace, quiet, nature, being close to nature, feeling the cold, connected to the elements and exposed to the elements. There is something we find in nature that makes us feel alive. That is the spiritual side for me.

Some artists spoke of spirituality in these ways:

— As a writer, and what I guess one would call a “nonreligious mystic,” I feel a strong spiritual connection with Maunakea. It is the inspiration for much of my work, even when it does not appear literally in a poem, and an important part of my spiritual practice. I offer my own spirit’s deepest attention to this place. I write poems about the plants, the changing light, the austere, silent spirit of the mountain. Even when the poems are not “about” Maunakea, they aspire to express its unique spiritual integrity, clarity, and space. What I feel when I am on the top is that Maunakea is in connection—in conversation—with the whole universe. It feels unbounded, expansive, full of light, weightless.

From an observatory support staff person, who chose not to talk about his technological life:

— I view the mountain mostly as an artist first, vision and visual artist. When I go up there, especially alone, and park at Pu’u Huluhulu and feel the breeze for a few minutes…it’s not religious. It is respectful to ask permission and then to feel that cold kiss on the cheek; I know my day is going to be OK.
From an artist-turned-astronomy student:

— As an artist, I see comfort in the serenity and natural beauty of Maunakea, as it offers a strange unifying balance between the heavens and our seemingly insignificant selves. The distance from civilization adds to a warm feeling of controlled isolation, which I personally find to be a valuable distraction from everyday stress and chaos. The mountain’s respectable, grand size allows me to experience a new found strength, persistence, balance, and fervor directly resulting from the realization of how weak I am in the grand scheme of the Earth alone, and ultimately in the eyes of the universe. In both ways, Maunakea is sacred, as it allows us to ground ourselves while reaching out to touch the heavens, the realm of the gods and our own creation.

Some participants reported profound experiences that flowed from simple acts, such as stopping on the Saddle Road before dawn and getting out of the car:

— For me one of the most spiritual experiences was on the side of the Saddle Road; I pulled over at 5 AM— I was traveling with a colleague—he jumped out and was speechless—and he talks a lot—speechless. It was what the world’s best planetarium aspires to be: the stars around the perfectly clear sky, still, quiet. It really made you think about how we are so small.

The same person later said,

— If I had to pick one thing that’s most significant—and I had no idea until I went up—it was the silence, such a profound silence. You think you know silence until you go up—your thoughts and your breath—quiet like nothing I ever experienced before or after, the quiet up there.

These notions of sanctity, of spirituality were sometimes intertwined with feelings of cosmic connection, being part of a bigger whole, being close with nature, and feelings of wonder. Some expressed feelings of being laid bare, being exposed to the universe. And for some, the feelings seemed to stem from things that were wholly metaphysical, such as the mana of previous generations imbued in the rocks and land itself.

Interestingly, there was something of a dichotomy in the ways these feelings led people to regard summit access. For some, the sanctity of the summit meant it should be kapu except for religious purposes. One or two went so far as to say even they should not be permitted. For others, the feelings of wonder and connection led them to believe that as long as access itself did not threaten the summit, it was a place that all of mankind could share for its mutual betterment.
We heard what can only be called prescriptions: *Know why you’re going there*, and *If you go there, do what you have to do and leave*. As we will see in the next section, these can be brought to bear on Maunakea’s issues.
Reclaiming the Past for Mauna a Wākea’s Future: The Battle Over Collective Memory and Hawai‘i’s Most Sacred Mountain

Terina Kamailelauli‘i Fa‘agau*

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* J.D. Candidate, Class of 2021, William S. Richardson School of Law. Firstly, my deepest gratitude to the protectors of Mauna a Wākea. I would also like to extend my thanks to the APLPJ editors as well as the many kumu and professors who have provided invaluable guidance, especially Professors Melody Kapilialoha MacKenzie, D. Kapua‘ala Sproat, and Eric K. Yamamoto. Finally, mahalo piha to my ‘ohana to whom I owe everything, and to Jason Kanoa Richards for his steadfast love and support.
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I. UNDERSTANDING THE RELATIONSHIP BETWEEN PAST, PRESENT, AND FUTURE

The ‘ōlelo noʻeau (proverb) “I ka wā ma mua, ka wā ma hope” illustrates how Kānaka Maoli (Native Hawaiians)1 orient themselves temporally. “Ka wā ma mua,” literally translated as “the time in front,” describes the time that precedes the present (i.e., the past).2 Likewise, “ka wā ma hope” means “the time in back,” the time coming after the present (i.e., the future).3 Kānaka Maoli appreciate that they “stand[] firmly in the present, with [their] back[s] to the future, and [their] eyes fixed upon the past, seeking historical answers for present-day dilemmas.”4 Recollections of the past, however, “are largely constructed in the present.”5 While looking to history6 can provide insight for the present and into the future, understandings of history depend on “who tells it, how it is told, which stories are shared, the nuances and complexities, [and] the language used.”7

1 “Native Hawaiian,” “Kanaka Maoli,” or “Maoli,” as used in this article, refers to individuals that can trace their ancestry back to the peoples inhabiting the Hawaiian Islands prior to the arrival of Captain James Cook in 1778, regardless of blood quantum. “Kanaka” is the singular, while “Kānaka” is the plural. MARY KAWENA PUKUI & SAMUEL H. ELBERT, HAWAIIAN DICTIONARY 127 (1986) [hereinafter HAWAIIAN DICTIONARY].


3 KAME’ELEIHĪWA, NATIVE LAND, supra note 2, at 22; Wilson-Hokowhitu & Meyer, supra note 2, at 1.

4 KAME’ELEIHĪWA, NATIVE LAND, supra note 2, at 22.


6 “History” is traced back to the Greek “histōr,” meaning “wise man” or “judge.” HISTORY, ONLINE ETYMOLGY DICTIONARY, https://www.etymonline.com/search?q=history&source=ds_search (last visited Feb. 21, 2021). For the purposes of this article, “history” refers to a story, narrative, or relation of incidents (true or false) of the past. See id.

7 Melody Kapilialoha MacKenzie & D. Kapua’ala Sproat, A Collective Memory of Injustice: Reclaiming Hawai’i’s Crown Lands Trust in Response to Judge James S.
And as those social understandings of the past evolve, so do the solutions for present-day problems.8

Traditionally, Kānaka Maoli fixed their eyes on “ka wā ma mua” by looking to their history and ancestral knowledge preserved through mo’okū‘auhau (genealogies), mele (songs), and mo’olelo (stories).9 But near the end of the 19th century, many Kānaka worried their ancestral knowledge would be erased, leaving future generations lost without the cultural kahua (foundation) Native Hawaiians relied upon since time immemorial.10 As American businessmen seized control over the archipelago and Hawai‘i’s native population declined due to foreign-introduced disease, “non-native historians developed and promoted [a] narrative” that failed to “acknowledg[e] . . . [Americans’] hostile takeover of an indigenous sovereign” and instead centered “around sugar planters, the economy, and land and power in Hawai‘i.”11 Prevailing for nearly a century after the 1893 illegal overthrow of the Hawaiian Kingdom, colonial narratives developed and promoted by foreign historians centered around shifting economic and political power in Hawai‘i.12 This “history” crafted by non-natives suppressed Native Hawaiians’ historical accounts, along with their collective memory of the injustice that took place in Hawai‘i.13

Burns, 39 U. Haw. L. Rev. 481, 482 (Summer 2017).

8 See id.


10 SILVA, STEEL-TIPPED PEN, supra note 9, at 7–8.


12 MacKenzie & Sproat, supra note 7, at 483–84.

13 Id. The modern Hawaiian sovereignty movement galvanized Kānaka Maoli’s pursuit of redress for the colonization’s injuries. Julian Aguon, NATIVE HAWAIIANS AND INTERNATIONAL LAW, in NATIVE HAWAIIAN LAW: A TREATISE 352, 360–61 (2015). To get at the heart of the issue, Kānaka Maoli worked to reconstruct history and correct the inaccurate collective memory that was told, and prevailed, for so long. See MacKenzie & Sproat, supra note 7, at 484–85 (citing HAUNANI-KAY TRASK, FROM A NATIVE DAUGHTER: COLONIALISM AND SOVEREIGNTY IN HAWAI‘I 1–24, 31–50 (2004)); KAME‘ELEIWIWA, NATIVE LAND, supra note 2, at 3 n.7 (describing the shift in Native Hawaiian consciousness and the politicization, identification, and capitalization of “Native” during the Hawaiian sovereignty movement). Native Hawaiians began to “expand the law’s narrow framing of
Which aspects of history are told, and how they are told, determine social understandings of justice and how that “justice” will be accomplished. Collective memory—a powerful tool wielded by colonizers for centuries—can be reclaimed and deployed by Kānaka and other Indigenous People to undergird justice claims. Kānaka Maoli today are deliberately looking to the past—through stories, songs, genealogies, and chants—to understand how they can shape and determine their future. They continue the effort to recover parts of history left out of colonizers’ narratives. And while the courts often tell a different version of “history,” Native Hawaiians have persisted in making these recovered narratives public and changing the way others understand what justice for Native Hawaiians requires.

injustice and focus on historical facts to more fully portray what happened and why it was wrong.” Hom & Yamamoto, supra note 5, at 1757. History was more than a way for Hawaiians to look to the past and remember the ways of their ancestors. Id. It became “a catalyst for mass mobilization and collective action aimed at policymakers, bureaucrats, and the American conscience.” Id.

14 Hom & Yamamoto, supra note 5, at 1764.

15 Id. at 1764–65. For instance, the 1993 Apology Resolution’s recognition of the illegal overthrow of the Hawaiian Kingdom bolstered Native Hawaiians’ claims to the Crown and Government Lands of the Hawaiian Kingdom. MacKenzie & Sproat, supra note 7, at 520–21. A result of the Great Māhele in 1848, King Kamehameha III held 2.5 million acres, sixty-percent of the kingdom’s lands, with chiefs holding the remainder of the land. Id. Kamehameha III then divided his lands into two. Id. First, he established the Government lands, about 1.5 million acres, that were “‘set apart forever to the chiefs and people’” of the kingdom. Id. Kamehameha III retained the remaining land, subject to the rights of native tenants, “for himself and his heirs and successors[]” Melody Kapilialoha MacKenzie, Historical Background, in NATIVE HAWAIIAN LAW: A TREATISE 2, 12–14 (2015). These lands were “taken by the United States upon annexation of Hawai‘i as a territory following the 1893 overthrow.” Hom & Yamamoto, supra note 5, at 1766–67 (citing Melody K. MacKenzie, Historical Background, in NATIVE HAWAIIAN RIGHTS HANDBOOK 3, 12 (Melody Kapilialoha MacKenzie ed., 1991)). Upon statehood in 1959, Hawai‘i’s Government and Crown Lands were transferred from U.S. control to the State of Hawai‘i by the 1959 Admission Act. Melody Kapilialoha MacKenzie, Public Land Trust, in NATIVE HAWAIIAN LAW: A TREATISE 76, 79 (2015). These former Government and Crown Lands are subject to the Public Land Trust, which imposes on the state specific fiduciary obligations of due diligence and undivided loyalty in ensuring that trust benefits are maximized for Native Hawaiian and public beneficiaries. See id.; HAW. CONST. art. XII.

16 See Hom & Yamamoto, supra note 5, at 1759–60. For instance, Noenoe K. Silva uses nineteenth and twentieth century texts written by Kānaka in ‘Ōlelo Hawai‘i (Hawaiian language) to examine the gaps left in the historical record authored primarily by non-native outsiders and illuminate the history of Native Hawaiians’ resistance to American imperialism. NOENOE K. SILVA, ALOHA BETRAYED: NATIVE HAWAIIAN RESISTANCE TO AMERICAN COLONIALISM 15 (2004) [hereinafter SILVA, ALOHA BETRAYED].

17 SILVA, ALOHA BETRAYED supra note 16, at 15.

18 See id.; Hom & Yamamoto, supra note 5, at 1759–60.
In October 2018, the Hawai‘i Supreme Court published the decision *In re Contested Case Hearing re Conservation Dist. Use Application (CDUA) Ha-3568 for the Thirty Meter Telescope at the Mauna Kea Sci. Res. (“Mauna Kea II”)* (2018). On the heels of protracted administrative trials (contested case hearings) and earlier litigation, the court’s *Mauna Kea II* decision affirmed the state’s Board of Land and Natural Resources’ ("BLNR’s” or “the Board’s”) grant of a Conservation District Use Permit (“CDUP” or “the Permit”) for the development of the Thirty Meter Telescope (“TMT”) on Maunakea. Many assumed that the court’s ruling finally “clear[ed] the way for TMT to begin construction.” But when developers sought to break ground on the TMT in July 2019, several hundred Kia‘i (guardians) gathered at the base of the Mauna Kea Access

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22 BLNR administrative rules require that “[n]o land use(s) shall be conducted in the conservation district unless a permit or approval is first obtained from the department or board.” HAW. CODE R. § 13-5-6(d) (2009).

23 *Mauna Kea II*, 143 Haw. at 384, 431 P.3d at 757. All names for the same mountain, “Mauna Kea,” “Maunakea,” and “Mauna a Wākea” are used interchangeably throughout this article. “Mauna Kea” (white mountain) describes the mountain’s snow-covered peak. “Maunakea,” as one word, is short for “Mauna a Wākea” (mountain of Wākea). Consistent with Native Hawaiian tradition, “[t]he University of Hawai‘i Hilo School of Hawaiian Language recommends the one-word spelling[]” *Mauna Kea or Maunakea?*, UNIV. OF HAW. INST. FOR ASTRONOMY, https://www2.ifa.hawaii.edu/newsletters/article.cfm?a=690&n=55 (last visited Feb. 21, 2021). The ‘Ōiwi (Native) place-name “Maunakea” is used throughout this article “to remember and honor the mana, the spiritual and cultural power, that resides in places and the persons . . . associated with those places.” See DETOURS: A DECOLONIAL GUIDE TO HAWAI‘I 16 (Hōkūlani K. Aikau & Vernadette Vicuña Gonzalez eds., 2019); HAWAIIAN DICTIONARY, supra note 1, at 280.


25 MARY KAWENA PUUKI & SAMUEL H. ELBERT, HAWAIIAN DICTIONARY 146 (rev. & enlarged ed. 1986). Behind the movement to protect Maunakea are “self-described ‘protectors, not protestors’ or Kia‘i Mauna (guardians of the mountain).” Noelani Goodyear-Ka‘ōpua, *Protectors of the Future, Not Protestors of the Past: Indigenous Pacific Activism and Mauna a Wākea*, 116 S. ATL. Q. 188–89 (2017). In this article, “Kia‘i” and “Kia‘i Mauna” are used synonymously to refer to protectors holding space on
Road to halt the contentious project’s construction, which they have been successful in doing for nearly two years as of this writing.26

The present conflict engulfing TMT is the culmination of a decades-long battle over the summit of Maunakea.27 This conflict, however, is not simply a battle over a sacred mountain, but a battle over the collective memories of Maunakea and Kānaka Maoli and the injustices committed against them.28 The Hawai‘i Supreme Court majority and TMT stakeholders and supporters recall memories altered by their “hopes and desires” to justify their approval and support for the project.29 On the other hand, Kia‘i, other Kānaka Maoli, and their allies remember and retell a competing collective memory of injustice, one that “integrates the ancestral with claims of right” to Maunakea.30 These present-day constructions of the past will determine the future of Maunakea and other Kānaka Maoli struggles for justice.31 The prevailing collective memory of “ka wā ma mua” will inform what will be done “ka wā ma hope.”32

This article unpacks the incomplete “history” of injustices in Hawai‘i and on Maunakea—as depicted by BLNR’s approval of TMT’s CDUP and reinforced by the Mauna Kea II majority—that the Hawai‘i Supreme Court and TMT supporters deployed to rationalize and clear the way for the telescope’s development.33 Further, this article explains how the prevailing collective memory of injustice will determine the fate of the TMT on Maunakea and shape narratives of justice for Native Hawaiians “ka wā

26 HPR News Staff, Latest Developments as TMT Construction Preparations Begin on Mauna Kea, HAW. PUB. RADIO (July 15, 2019), https://www.hawaiipublicradio.org/post/latest-developments-tmt-construction-preparations-begin-mauna-kea#stream/0. In March 2020, one of two countries using public funds to finance the TMT, Japan suspended its yearly funding, “citing the stalemate over [the project’s] construction on Mauna Kea.” Ku‘uwehi Hiraishi, Japan Suspends TMT Funding Citing Mauna Kea Stalemate, HAW. PUB. RADIO (Mar. 3, 2020), https://www.hawaiipublicradio.org/post/japan-suspends-tmt-funding-citing-mauna-kea-stalemate#stream/0. In response to the suspension, Kia‘i delivered a letter to the Consulate General of Japan reaffirming their stance on protecting the mountain from the TMT. Id. Kia‘i Lanakila Mangauil urged Japan to divest money from the project and instead “reinvest back into their own communities and help their own people.” Id.

27 See infra Parts III, V, VI.


29 Id. at 1761.

30 See id. at 1761–62.

31 Id.

32 See infra Parts II, VII.

33 See infra Part V.
ma hope.” Part II explores collective memory and explains its power and potential for justice struggles in Hawai‘i with an example from Rice v. Cayetano (2000). Part III examines the cultural and historical significance of Maunakea to Hawai‘i and Native Hawaiians as well as the history of Western astronomy on the mountain’s summit. Part IV provides the legal background of this battle over Maunakea and outlines the State of Hawai‘i’s affirmative duty to protect Native Hawaiian traditional and customary rights. Parts V and VI illuminate the recent and ongoing battle over the collective memory of injustice of Maunakea. Part V closely examines the Mauna Kea II majority and dissenting opinions and their effects on public perception surrounding Maunakea and justice for Native Hawaiians. Part VI then brings light to Native Hawaiians’ oft-ignored familial, spiritual, and legal claims to Maunakea—with examples from Kia‘i’s testimony before BLNR, the court, and the public—to combat the narrative that has paved the way for the approval of the TMT. Finally, Part VII concludes this article by looking to “ka wā ma hope” and contemplating the future of Maunakea.

II. COLLECTIVE MEMORY’S ESSENTIAL ROLE IN SHAPING NARRATIVES OF JUSTICE FOR KĀNAKA MAOLI

Kānaka Maoli identity and understanding of the present derive from mo‘olelo. Native Hawaiian Professor and Scholar Lilikalā Kame‘eleihiwa explained that “every aspect of the Hawaiian conception of the world is related by birth, and as such, all parts of the Hawaiian world are one indivisible lineage . . . Hawaiians patterned their behavior after the ancestral example found in their genealogy.” That past informed their future. But since Western contact, the “historical portraits” often used to describe Hawai‘i were crafted primarily by non-native voices that reflect Eurocentric views.

Since “Western views [of history] have [largely] predominated,” those narratives play a significant role in Native Hawaiians’ lives. Eric K.

34 See infra Parts V–VI.
36 See KAME‘ELEIHIWA, supra note 2, at 1 (describing how “Hawaiian identity is, in fact, derived from” the mo‘olelo and “cosmogonic genealogy” of the Kumulipo); Nakanelua, supra note 9, at 198–99 (“[U]nderstanding Mo‘o [and mo‘olelo] as a paradigm, the foundation of Maoli understanding of law, culture, and society, is critical to the way Kānaka create and re-create community identity.”).
37 KAME‘ELEIHIWA, supra note 2, at 2.
38 Id.
39 Id. at 3.
40 Id. at 4.
Yamamoto, Fred T. Korematsu Professor of Law and Social Justice at the William S. Richardson School of Law, also recognized how historical narratives impacted Kānaka’s sense of identity: “‘Who we were and what happened’ are integrally connected to how Native Hawaiians were sometimes pejoratively described by white American missionaries (savages and pagans), businessmen (incompetents), and politicians (a dying race), and later by racial immigrant groups (lazy and uneducated).”41 Equally important is the way these predominating narratives or stories determine what justice entails for Native Hawaiians.42 As succinctly put by Columbia University Professor Edward Said:

[Stories are] the method colonized people use to assert their own identity and the existence of their own history. The main battle in imperialism is over land, of course; but when it came to who owned the land, who had the right to settle and work on it, who kept it going, who won it back, and who now plans its future—these issues were reflected, contested, and even for a time, decided in narrative.43

Understanding the inherent power in narratives and how they are framed, Dr. Kame‘eleihiwa questioned the flawed accounts peddled by non-native Westerners:

[H]ow can anyone write an honest history? Moreover, how is it possible to write an accurate, or even approximate, replay of life when writing the history of a people from the viewpoint of another completely distinct culture, or from another completely different time?44

Professor Yamamoto observed that, akin to Native Hawaiians, other groups also understand how the past informs present and future constructions of justice and redress.45 Those groups seeking social justice “tend to define injustice more broadly” than the “progressive lawyers” whose ideas of injustice are framed within the narrow confines of legal doctrine that “narrows public imagination and debate.”46 To achieve mass mobilization and collective action, social justice groups must “expand the law’s narrow framing of injustice and focus on historical facts to more fully portray what

41 Hom & Yamamoto, supra note 5, at 1760.
43 Id.
44 KAME‘ELEIHIWA, supra note 2, at 5–6.
45 Hom & Yamamoto, supra note 5, at 1757.
46 Id.
happened and why it was wrong.” As Professor Yamamoto noted, however, both “progressive lawyers” and social justice groups often fail to address the crux of how collective memory operates.

A. Understanding Collective Memory

More than historical facts and events simply “retrieved from a brain storehouse,” memories are “constructed and continually reconstructed.” Memories are always being reshaped “by complex interactions among people and their social environments.” Both individuals and social groups “often subconsciously choose what to remember in ways that reflect their desires, hopes, and the cultural norms of their social environment.”

Moreover, memories of the past are framed within the context of culture. These culturally-framed memories are conveyed and perpetuated through narratives.

Narrative structures derive from purposeful constructions of collective memory and “shape how society constructs and relates to individual and group identity claims.” “Direct experiences, cultural forms, institutional practices, and political ideology generate the underlying, or structural, narratives.” These narratives serve as a lens through which groups understand history and frame their relationship of the past to the present. But “this lens is constructed,” and thus “remembering’ the past is neither innocent nor objective.” Historian Peter Burke’s observation illustrates how “historical memory is selective”:

A way of seeing is a way of not seeing, a way of remembering is a way of forgetting, too. If memory were only a kind of registration, a “true” memory might be possible. But memory is a process of encoding information,

47 Id.
48 Id.
49 Id. at 1760.
50 Id.
51 Id.
52 Id. at 1761.
53 Id.
54 MacKenzie & Sproat, supra note 7, at 488; see Hom & Yamamoto, supra note 5, at 1761 (citing Craig R. Barclay, Autobiographical Remembering: Constraints on Objectified Selves, in Remembering Our Past: Studies in Autobiographical Memory 67, 94 (David C. Rubin ed., 1996)).
55 Hom & Yamamoto, supra note 5, at 1762.
56 Id.
57 Id.
storing information and strategically retrieving information, and there are social, psychological, and historical influences at each point.\textsuperscript{58}

Figuring out “what happened and who we were” goes beyond factual discovery and is “an act of historical and political construction.”\textsuperscript{59} The daughter of Holocaust survivors, writer Eva Hoffman observed that the understanding of any event is “shaped by contemporaneous values and ideological pressures.”\textsuperscript{60} For instance, historian Peter Novick examined how “America’s preoccupation with the Holocaust . . . is motivated as much by political as moral concerns.”\textsuperscript{61} The Holocaust “has been treated as a political issue and deliberately used for political ends.”\textsuperscript{62} Therefore, to effectively use collective memory to understand present-day justice struggles, a “lawyerly approach”—digging historically to find out what happened and applying those facts to show a violation of established rights norms—will not suffice.\textsuperscript{63} Instead, “[t]he digging we must do is not only into the documentary archives, but also into the archives of mind, spirit, and culture—then and now.”\textsuperscript{64}

Since “framing justice is about social memory,”\textsuperscript{65} social justice lawyers and activists often aim to refute inaccurate historical narratives and take a more active role in constructing group memories “as we go, within a context of not only rights norms but also larger societal understandings of injustice and reparation.”\textsuperscript{66} Collective memory allows groups demanding justice to dismantle the inaccurate narratives—told and retold by individuals, institutions, and nations—that “refram[e] shameful past acts” and deflect blame and responsibility.\textsuperscript{67}

\textsuperscript{58} Id. (quoting Peter Burke, \textit{History as Social Memory}, in \textit{MEMORY: HISTORY, CULTURE AND THE MIND} 97, 103 (Thomas Butler ed., 1989)).

\textsuperscript{59} Id. at 1760.

\textsuperscript{60} See id. at 1762 (citing Eva Hoffman, \textit{The Uses of Hell}, N.Y.R. BOOKS 19 (Mar. 9, 2000)).

\textsuperscript{61} Id. at 1763.

\textsuperscript{62} Hoffman, supra note 60.

\textsuperscript{63} Hom & Yamamoto, supra note 5, at 1764.

\textsuperscript{64} Id.

\textsuperscript{65} Id. at 1756.

\textsuperscript{66} Id. at 1764.

\textsuperscript{67} Id. at 1758.
B. Collective Memory’s Power and Potential for Justice Struggles in Hawai‘i

For Kānaka, recounting “what happened” in Hawai‘i’s past remains difficult for several reasons.\textsuperscript{68} Many stories traditionally passed down between generations of Kānaka Maoli were lost when the native population was decimated by foreign-introduced disease.\textsuperscript{69} With America’s increased presence in Hawai‘i, Western narratives and institutions predominated, suppressing Hawaiian language and culture.\textsuperscript{70} And, as Professor Yamamoto explained,

Making the task of recounting even more difficult is the present-day reality that native Hawaiians are building their own new understandings of ‘what happened’ and ‘who we were’ partly in order to claim ‘what is rightfully ours.’ This linkage of events to identity and then to rights implicates contemporary notions of nationhood.\textsuperscript{71}

Other scholars, including Dr. Kame‘eleihiwa, similarly recognized and emphasized how history is tied to identity, which are tied to rights claims and justice.\textsuperscript{72} Unpacking and examining “history”—especially when inscribed into law—thus becomes a crucial task because of collective memory’s use as a strategic tool that justifies upholding or denying rights to certain groups as well as promoting or thwarting notions of justice.\textsuperscript{73} Professor Yamamoto outlines five strategic points to translate collective memory into practical strategy that can be deployed to realize the power and potential of collective memory for justice struggles.\textsuperscript{74} First,

\begin{thebibliography}{99}
\bibitem{68} Id. at 1759–60.
\bibitem{69} \textit{Silva, Aloha Betrayed}, supra note 16, at 3; see supra note 11 and accompanying text.
\bibitem{70} \textit{Kame‘eleihiwa}, supra note 2, at 5–6. “[W]ithin a century of foreign occupation ʻōlelo Hawai‘i became an endagered language.” Katrina-Ann R. Kapā‘anaokalāokeola Nākoa Oliveira, \textit{E Ola Mau ka ʻŌlelo Hawai‘i: The Hawaiian Language Revitalization Movement, in A Nation Rising: Hawaiian Movements for Life, Land, and Sovereignty} 79 (Noelani Goodyear-Ka‘ōpua et al., eds., 2014). The illegal overthrow of the Hawaiian Kingdom marked a “devastating blow[] dealt to the Kanaka people.” \textit{Id.} at 80. By 1896, three years after the overthrow, the Republic of Hawai‘i established English as the medium of instruction in schools and “effectively banned ʻōlelo Hawai‘i-medium education.” \textit{Id.}
\bibitem{71} Hom & Yamamoto, supra note 5, at 1760.
\bibitem{72} See \textit{Kame‘eleihiwa}, supra note 2, at 7–8; Hom & Yamamoto, supra note 5, at 1764–65.
\bibitem{73} See Hom & Yamamoto, supra note 5, at 1777.
\bibitem{74} \textit{Id.} at 1764.
\end{thebibliography}
“justice claims of ‘right’ start with struggles over memory.”\textsuperscript{75} “Collective memories differ depending on locale, group experiences, and cultural norms.”\textsuperscript{76} Since different groups remember the past differently, they often disagree on what injustice looks like and what justice entails.\textsuperscript{77} Therefore, justice depends upon “critically engag[ing] the dynamics of group memory injustice.”\textsuperscript{78}

Second, the “[g]roup memory of injustice is characterized by the active, collective construction of the past.”\textsuperscript{79} Memory is not composed of a recollection of past events.\textsuperscript{80} Instead, it involves present-day constructions that are built and altered, not simply found.\textsuperscript{81} Collective memory “emerges from interactions among people, institutions, media, and other cultural norms.”\textsuperscript{82}

Third, “[t]he construction of collective memory implicates power and culture.”\textsuperscript{83} Decisionmakers have the power to decide which memories ought to be acknowledged, and those prevailing memories shape justice claims.\textsuperscript{84} “[S]truggles over memory are often struggles between colliding ideologies, or vastly differing world views.”\textsuperscript{85} Challenges to the prevailing historical narratives are met with “fierce opposition by those in power” who “seek[] totally to discredit the developing memory proffered by outsiders” or who “seek[] to partially transform [an] old memory . . . into a new memory . . . that justifies continued hierarchy.”\textsuperscript{86}

Fourth, “[t]hese contests over historical memory regularly take place on the terrain of culture—of which legal process, and particularly civil rights adjudication, is one, but only one, significant aspect.”\textsuperscript{87} Memories of past events, persons, and interactions are culturally-framed—“they are subject to socially structured patterns of recall, they are often triggered by

\textsuperscript{75} Id.

\textsuperscript{76} MacKenzie & Sproat, supra note 7, at 493.

\textsuperscript{77} See id.; Hom & Yamamoto, supra note 5, at 1764.

\textsuperscript{78} Hom & Yamamoto, supra note 5, at 1764.

\textsuperscript{79} Id.

\textsuperscript{80} Id.

\textsuperscript{81} Id.

\textsuperscript{82} Id.

\textsuperscript{83} Id. at 1765.

\textsuperscript{84} Id.

\textsuperscript{85} Id.

\textsuperscript{86} Id.

\textsuperscript{87} Id.
social stimuli and they are conveyed through communal language."\(^{88}\) Legislators, judges, and other decisionmakers “determine[] which cultural practices, images, and narratives formally frame the memories. And those memories in turn legitimate future understanding of and action on justice claims.”\(^{89}\)

Finally, “it is always important for those outsiders to conceive of law and legal process as contributors to—rather than as the essence of—larger social justice strategies.”\(^{90}\) Activists seeking justice have dual goals: “to achieve the specific legal result and to contribute to construction of social memory as a political tool.”\(^{91}\)

Together, these strategic points “underscore collective memory’s powerful role in justice struggles in Hawai‘i and beyond.”\(^{92}\) They call attention to the ongoing battle over collective memory of injustice and the strategic import of deploying collective memory to bolster justice claims.\(^{93}\) In courts in particular, judges hold power to shape collective memory, which, when inscribed into case law, legitimizes “socio-legal or cultural narratives, or stories, about groups, institutions, situations and relationships.”\(^{94}\) The “prevailing, or master, narrative provides a principle lens[] through which groupings of people in a community see and interpret events and actions.”\(^{95}\)

Thus, the battle over the memory of Maunakea poses major implications for not only Maunakea but also Native Hawaiians themselves.\(^{96}\) The battle over Maunakea—both in and outside of the courtroom—illustrates these five strategic points and collective memory’s significant role in the struggle for justice for Kānaka Maoli.\(^{97}\)

Professor Yamamoto deployed \textit{Rice v. Cayetano} (2000) as an example to illustrate how collective memory can perpetuate injustice, and the controversial majority opinion authored by Justice Anthony Kennedy is representative of the types of narratives and collective memories told by

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\(^{88}\) Id. at 1761.

\(^{89}\) Id. at 1765.

\(^{90}\) Id.

\(^{91}\) Id.

\(^{92}\) Id.

\(^{93}\) Id.


\(^{95}\) Yamamoto et al., supra note 94 (“Court rulings have reinforced such master narratives, and harsh societal actions have been justified them.”).

\(^{96}\) See Hom & Yamamoto, supra note 5, at 1766.

\(^{97}\) See id.
non-natives that Native Hawaiians have sought to correct.\(^9\) In 1978, a result of the Constitutional Convention, Hawai‘i voters established the Office of Hawaiian Affairs (‘OHA”) and its Board of Trustees comprised of and elected by Native Hawaiians.\(^9\) Catalyzed by the efforts of Native Hawaiian Convention participants who “saw the convention as an opportunity to further the goal of self-determination,” \(^1\) Hawai‘i’s diverse peoples overwhelmingly approved the 1978 state constitutional amendment creating OHA and its indigenous Hawaiians-only voting structure.\(^1\) A unique governing entity independent from the state’s executive branch, OHA holds broad powers to “acquire, hold, and manage property; to enter into contracts and leases; to manage and invest funds; and to formulate public policy relating to Hawaiian affairs.”\(^1\)

In 1996, Harold Rice, a rancher from Hawai‘i Island, sued then Hawai‘i Governor Ben Cayetano to invalidate OHA’s voting process and claimed that it was nothing more than a special privilege for a racial minority in violation of the Fifteenth and Fourteenth Amendments.\(^1\) The U.S. Supreme Court agreed, in part, with Rice’s argument and struck down the voting system.\(^1\) The majority concluded the state’s “denial of [Rice’s] right to vote to be a clear violation of the Fifteenth Amendment.”\(^1\)

How was the Court able to reconcile the history of injustice in Hawai‘i with its invalidation of a program clearly intended to rectify injustice? As Professor Yamamoto elucidates, “the Court majority generated a remarkable narrative reminiscent of the familiar tale of how Western culture and law, more or less naturally, ‘civilized’ the native savage

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\(^9\) See id.


\(^1\) MacKenzie, supra note 99, at 273. Convention delegates intended for OHA to bolster Hawaiian self-determination and self-government, similar to the way Native Americans had been able to do in cooperation with the federal government. Id. at 274.

\(^1\) Hom & Yamamoto, supra note 5, at 1767.

\(^1\) MacKenzie, supra note 99, at 275 n.83.

\(^1\) See Rice v. Cayetano, 528 U.S 495, 499 (2000).

\(^1\) Id.; MacKenzie, supra note 99, at 284. Both the Hawai‘i District Court and the 9th Circuit Court of Appeals upheld OHA’s voting system limiting registration to Hawaiians. See generally Rice v. Cayetano, 146 F.3d 1075 (9th Cir. 1998); Rice v. Cayetano, 941 F. Supp. 1529 (D. Haw. 1996).

\(^1\) Rice, 528 U.S at 499.
Justice Kennedy’s majority opinion contorted history and, in effect, what was required to achieve justice in Hawai‘i. The majority’s narrative euphemized the impacts of Western colonists in nineteenth century Hawai‘i. It framed a narrative that it claimed was only a “neutral” and “uncontroversial” recounting of past events. Characterizing “white American missionaries and businessmen [not] as foreign settlers but rather as natural heirs of Hawai‘i,” the majority intimated that there were no negative effects of U.S. colonization. All things considered, there was no injustice for OHA to remedy.

The majority’s inaccurate retelling of Hawai‘i’s history and its “dissonant framing of the ‘injustice’” has effectively left other laws and programs intended to benefit Native Hawaiians vulnerable to legal challenges and potential invalidation. A devastating blow to Native Hawaiian self-determination:

106 Hom & Yamamoto, supra note 5, at 1773.

107 See Rice, 528 U.S. at 498–511. Justice Kennedy detailed, and analogized, the histories of the voting structure in Hawai‘i and the events surrounding the Fifteenth Amendment. Id. at 511–14. Despite the vast dissimilarities between those histories, Justice Kennedy then likened OHA’s voting scheme to pre-Reconstruction voting restrictions and an Oklahoma voting law that was struck down for its “subtle” attempt to limit voting to white citizens. Id. The majority found that OHA’s voting structure “[rested], in the end, on the demeaning premise that citizens of a particular race are somehow more qualified than others to vote on certain matters.” Id. at 523. Justices Stephen Breyer and David Souter’s concurrence went further and opined that OHA’s electorate does not resemble that of a federally recognized Indian Tribe and that “there is no ‘trust’ for native Hawaiians here.” Id. at 524–37 (Breyer, J., concurring).

108 Hom & Yamamoto, supra note 5, at 1773.

109 Id. at 1772.

110 Id. at 1775. For instance, the Court characterized (pre-contact) life in Hawai‘i as:

[N]ot “idyllic” because there was internecine warfare and. . . kings could order the death or sacrifice of any subject.” . . . [T]he majority blandly described often greedy Western encroachment as a “story of increasing involvement of westerners in the economic and political affairs of the Kingdom.” . . . [T]he Court intimated that the overthrow was justified by Queen Lili‘uokalani’s undemocratic actions . . . [T]he majority alluded to the “Chinese, Portuguese, Japanese, and Filipino” migrations to Hawai‘i and how these immigrants faced, and overcame, discrimination.

Id. at 1773–74.

111 See id. at 1775.

112 Id. at 1771.

113 See id. Authored by Justice John Paul Stevens’ and joined by Justice Ruth Bader Ginsburg, the dissenting opinion criticized the majority’s holding for failing to understand the significance of Hawaiian history and “rest[ing] largely on the repetition of glittering generalities that have little, if any, application to [Hawai‘i’s] compelling history.”
Rice and the collective memory it legitimates distort progressive civil rights and erase human rights. They twist a history of white racial dominance into a justification for present-day equality for Freddy Rice... By narrowly framing history to legitimate its decision, the Supreme Court generated precedent for forthcoming cases that undermines the principle of justice through reparation.114

This example demonstrates that, more than a tool for “retrieving group histories[,]” collective memory of injustice is “construc[ed] as we go, within a context of not only rights norms but also larger societal understandings of injustice and reparation.”116 Professor Yamamoto’s analysis of Rice is but one example evincing the power of collective memory for Native Hawaiians seeking to rectify wrongs perpetuated by revisionist histories and colonial narratives.117

III. KA PIKO KAULANA O KA ‘ĀINA: THE FAMOUS SUMMIT OF THE LAND

A. The Significance of Maunakea to Hawai‘i and Kānaka Maoli

Mauna a Wākea’s allure is uncontested—people from Hawai‘i and abroad admire the mountain’s beauty. But Kānaka Maoli’s connection to Maunakea is unique from those of other locals, astronomers, or tourists. That connection—Maunakea’s historical and cultural significance to Kānaka—is embedded in their many stories, songs, genealogies and

Rice v. Cayetano, 528 U.S 495, 527–28 (2000) (Stevens, J., dissenting). Justice Stevens based his dissent on Congress’ analogous treatment of Native Americans and Native Hawaiians and the reality that OHA’s trustee system and electorate “violate[d] neither the letter nor the spirit” of the Fourteenth and Fifteenth Amendments. Id. at 538. Native Hawaiians’ legal status and OHA’s technically being an “arm of the state” should not have precluded the state from implementing OHA’s voting scheme, especially given that Native Hawaiians’ lack of “any vestigial native government” was “a possibility which history and the actions of [the United States] deprived them.” Id. at 535. The dissenters accosted the majority’s flawed collective memory. See id. They understood that, through OHA’s implementation and voting scheme, Kānaka Maoli sought neither “privileges [n]or handouts.” See Hom & Yamamoto, supra note 5, at 1775.

114 See Hom & Yamamoto, supra note 5, at 1777.


116 Id.; Hom & Yamamoto, supra note 5, at 1764.

117 See, e.g., Nakanelua, supra note 9; MacKenzie & Sproat, supra note 7.
Most notably, the Kumulipo, “an oli of our beginnings” and “arguably the most important literary work in the Hawaiian canon[,]” traces Kānaka Maoli’s lineage directly back to Maunakea.

Traditionally passed down through generations orally, the Kumulipo imparts the story of Papa (earth mother) and Wākea (sky father) from whom the islands were born and all Kānaka Maoli descended. Wākea and Papa bore their first human daughter, Hoʻohōkūkalani. Hāloanaka—Wākea and Hoʻohōkūkalani’s first child—was born prematurely, buried in the earth, and grew into the first kalo (taro) plant. Wākea and Hoʻohōkūkalani then delivered a second son, Hāloa, who became the first Kanaka, aliʻi nui (high chief), and the progenitor of all Kānaka Maoli.


As McDougall explains:

A 2,102-line mele koʻihonua (creation and genealogical chant), the Kumulipo provides an evolutionary account of creation and traces the beginnings of the Kanaka Maoli concept of the universe, from degrees of darkness to the births of plants and animals, to the births of the gods from whom came the first Kānaka. Although the Kumulipo is not the only moʻokūʻauhau, nor is it the only one relating the creation of the universe, the Kumulipo is thought to be most complete and best preserved.

The Kumulipo was first transcribed in 1889 for King Kalākaua. Several translations of the Kumulipo were subsequently produced, including one by Queen Liliʻuokalani in 1897. The most popularly used translation today was provided by Martha Warren Beckwith in 1951. Though often used and cited to, some scholars have criticized Beckwith’s version as being translated through a primarily Western lens.

With over 300 varieties in Hawai‘i, kalo, or taro, has been a staple of Maoli diets “from earliest times to the present.” HAWAIIAN DICTIONARY, supra note 1, at 123.

Because the union of Papa and Wākea resulted not only in Maunakea’s birth but also the birth of the Native Hawaiian people, Native Hawaiian scholar Leon Noʻeau Peralto attributes Maunakea as “the birthplace of a Kanaka Maoli consciousness.” Emalani Case, I ka Piko, To the Summit: Resistance from the Mountain to the Sea, 54 J. PAC. HS. 166, 174 (2019) (citing Leon Noʻeau Peralto, Mauna a Wākea: Hānau Ka Mauna, the Piko of Our Ea, in A Nation Rising: Hawaiian Movements for Life, Land, and Sovereignty 233, 234 (Noelani Goodyear-Kaʻōpua, Ikaika Hussey, & Erin Kahunawaikaʻala Wright, eds. 2014)).
Before Hoʻohōkūkalani’s birth, Papa and Wākea bore their first-born mountain son, Mauna a Wākea.128 A mele hānau (birth chant) composed for Kauaikaoauli (Kamehameha III) recounts Maunakea’s creation and divine origins:

O hanau ka Mauna a Wakea,
O puu aʻe ka Mauna a Wakea.
O Wakea ke Kane, o Papa, o Walinuu ka wahine.
Hanau Hoohoku, he wahine,
Hanau Hāloa he ‘lii
Hanau ka Mauna, he keiki Mauna na Wakea

*Born is the Mauna a Wākea,*
*The mountain of Wākea buds forth.*
*Wākea is the male, Papa Walinuʻu is the female.*
*Born is Hoʻohōkū, a female,*
*Born is Hāloa, a chief,*
*Born is the Mauna, a mountain-child of Wākea.*129

Imbued with “multiple layers of kaona, or veiled meaning,” these genealogical stories shape Native Hawaiians’ connection to ‘āina (land)130 and to Maunakea.131 By “blur[ing] the boundaries and break[ing] down hierarchies between humans and nonhumans,” the Kumulipo, along with accompanying mele and moʻolelo, teaches that “we are all interconnected and genealogically part of the ‘āina.”132

The Papa and Wākea lineage teaches the fundamental lessons, traditions, and responsibilities of Mālama ‘Āina (caring for the land) and Aloha ‘Āina (loving the land).133 It conveys the Maoli understanding that

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128 Peralto, *supra* note 127, at 233 (citing He Kananae No Ka Hanau Ana O Kauaikaoauli, KA NAʻI AUPUNI (1906)).
129 Id.
132 See McDOUGALL, *supra* note 118, at 95.
133 See KAMEʻELEIHIWA, *supra* note 2, at 25. A longtime member of the Protect Kahoʻolawe ʻOhana, Professor Davianna Pōmaikaʻi McGregor describes “Aloha ʻĀina” as having:

[T]he different layers of meaning: It is the practice of caring for the land and the resources of the land. It is the practice of honoring the
“[b]oth the [‘āina] and Kanaka are instilled, at birth, with particular kuleana [privileged responsibilities] to each other.”

Kānaka Maoli’s familial relationship to the land is the foundation of Native Hawaiians’ “desire [not] to conquer his elder female sibling, the ‘Āina, but to take care of her, to cultivate her properly[.]” This responsibility is reciprocated: “[s]o long as younger Hawaiians love, serve, and honor their elders, the elders will continue to do the same for them, as well as to provide for all their physical needs.”

As described by Native Hawaiian Scholar and Professor Emalani Case, Native Hawaiians understand themselves as “belonging to” the ‘āina, including Maunakea, rather than having “possession of” it.

More than a genealogical record, these ancestral teachings “firmly establish our history and belonging to the pae ‘āina (archipelago), with all of the kuleana, or privileged responsibilities, associated with this familial belonging.” With ‘āina as an ancestor, pono (balance, perfect order)

spiritual life force of those natural resources and honoring them through worship or through gifting, but also through a demeanor and manner that is respectful of those resources. And then at certain key political points it has meant that those who are aloha ‘āina are people who are nationalists and have a strong sense of patriotism for Hawai‘i and the land of Hawai‘i and Hawai‘i Pae ‘Āina.


Peralto, supra note 127, at 234. “Kuleana” translates to “right.” It also translates to both “privilege” and “responsibility.” HAWAIIAN DICTIONARY, supra note 1, at 179.

KAME‘ELEIWIHA, supra note 2, at 25. “[T]he kalo plant, which was the main staple of the people of old, is also the elder brother of the Hawaiian race, and as such deserves great respect.” Id.

Id. For “it is the ‘Āina, the kalo, and the Ali‘i Nui who are to feed, clothe, and shelter their younger brothers and sisters, the Hawaiian people,” Id.

Case, supra note 127, at 180.

McDOUGALL, supra note 118, at 94.

HAWAIIAN DICTIONARY, supra note 1, at 340. Dr. Kame‘eleihiwa describes pono as “denot[ing] a universe in perfect harmony.” KAME‘ELEIWIHA, supra note 2, at 25. Richard Kekuni Blaisdell further elaborates on this pono relationship between Kānaka Maoli and ‘āina:

[W]e are lōkahi with everything in our cosmos, inherently, because we have the same parents and therefore we are all siblings, and therefore, we must respect, revere, everything in our environment, and that is why we cannot destroy and pollute, contaminate, because to do this is to hurt ourselves. That is the essence of being Kanaka Maoli. In our thinking and action, the greatest virtue is to maintain proper pono, that is proper relationships, harmony within ourselves and others with everything in
exists so long as the land takes care of Kānaka Maoli and Kānaka Maoli take care of the land.140

While Native Hawaiians understand that all land must be taken care of, Maunakea also has particular significance to Kānaka Maoli because of its divine origin.141 As the piko (naval) of Hawai‘i, the summit of Mauna a Wākea is “where Kanaka Maoli can be closest to Wākea, the ancestor whose domain is the sky”142 and “where heaven, earth, and stars find union.”143

Moreover, the summit of Maunakea, with an elevation of 13,803 feet,144 is a wahi pana (storied place)145 that lies within wao akua (space of the gods).146 Pono required that Kānaka respect the bounds of wao akua and refrain from developing structures within or altering the landscape of the cosmos.

MCDougall, supra note 118, at 95 (quoting Aloha Quest: Kumulipo/Hawaiian Cosmos (KFVE television broadcast Dec. 9, 1999)).

140 See Steele, Professor Jon Osorio, supra note 130.

141 Case, supra note 127, at 168.

142 Id. Piko is also translated to mean the “summit or top of a hill or mountain.” HAWAIIAN DICTIONARY, supra note 1, at 328. “Mauna Kea can be considered the piko ho‘okahi, the single navel, which ensures spiritual connections, genealogical connections, and the rights to the regenerative powers of all that is Hawai‘i. It is from this ‘world navel’ that the Hawai‘i axis emerges.” KEPĀ Maly & ONAONA Maly, MAUNA KEA, KA PIKO KAULANA O KA ‘ĀINA (MAUNA KEA, THE FAMOUS SUMMIT OF THE LAND) ii (KUMU PONO ASSOCIATES, LLC 2006). For more information on piko, see id. at i–ii (describing the significance of piko and explaining how Native Hawaiian understandings of piko provide a better understanding of the importance of Mauna a Wākea as a “piko o ka moku” (navel of the island)).

143 Maly & Maly, supra note 142, at i (“Not just any heaven, but Wākea, not just any earth, but Papahānaumoku, and not just any constellation . . . but Ho‘ohōkūkalani, whose children descend and return to the stars.”).

144 Measured from sea level, Maunakea stands as the tallest mountain in the Pacific. See Flores-Case ‘Ohana’s Proposed Findings of Fact, Conclusions of Law, and Decision Order, A Contested Case Hearing Re Conservation Use Application HA-3568 for the Thirty Meter Telescope at Mauna Kea Science Reserve 46 ¶ 341 (May 30, 2017) [hereinafter Flores-Case Proposal]. From its base on the ocean floor to its peak, Maunakea is nearly 33,000 feet tall, making it the tallest mountain in the world. See id.

145 Wahi pana are sacred or “legendary” places. HAWAIIAN DICTIONARY, supra note 1, at 377.

146 Case, supra note 127, at 168; see Flores-Case Proposal, supra note 144, at 23–24. Ku‘ulei Kanahele explains that wao akua might be equated with conservation lands—places that should be left alone by humans. MAUNA KEA LUC: Ku‘ulei Kanahele On Wao Akua (Oct. 25, 2019), BIG ISLAND VIDEO NEWS (Oct. 28, 2019), https://www.youtube.com/watch?v=riDPV5199yCM. In contrast, Kānaka resided in and subsisted off of wao kanaka and the resources it provided. Id. Although typically translated to “god(s),” “akua” can be better understood as elements, and, in accord with that thinking, the elements (e.g., winds, waters, lava) and all other resources (e.g., plants, animals) are physical manifestations of the akua. Id.
summit area of Maunakea. Thus, while tradition indicates that people traveled across Maunakea with great frequency, the upper elevations and summit area were kapu (sacred).\textsuperscript{149} Kānaka Maoli often prayed or honored akua at the summit and “actively nurture[ed] and maintain[ed] our relationship to our ancestors, thereby renewing our sense of responsibility to them” and to the ‘āina.\textsuperscript{150} Maunakea’s summit was left untouched by Kānaka Maoli “on purpose because [it was] reserved for honouring the spiritual connection between Kanaka and ‘āina.”\textsuperscript{151}

Sitting atop an aquifer, Maunakea is also integral in “collecting waters that sustain life[.]”\textsuperscript{152} Kaʻohe, the ahupuaʻa (district)\textsuperscript{153} in which the summit sits, is aptly named after ‘ohe (bamboo) for the way it collects water.\textsuperscript{154} Kānaka Maoli know Kaʻohe as “the place that we will find water, always.”\textsuperscript{155} They understand that Waiau (the lake), Poliʻahu (the snow),

\textsuperscript{147} See Mauna Kea LUC, supra note 146; Steele, Professor Jon Osorio, supra note 130. Because Native Hawaiians understood akua to be literal elements, respecting wao akua was also an act of conservation or sustainability of their environment upon which they depend. See Mauna Kea LUC, supra note 146; Steele, Professor Jon Osorio, supra note 130.

\textsuperscript{148} MALY & MALY, supra note 142, at 453, 456.

\textsuperscript{149} See Case, supra note 127, at 172, 180. What is sacred “is ultimately a conversation of a relationship between humans and all of creation.” Id. at 173. Native Hawaiian Scholar and Professor Emalani Case discusses the intricacies and difficulties involved in discussions about Maunakea and sacredness:

To talk about Mauna Kea, therefore, is to talk about spirit. It is to use words like ‘sacred’ and to draw on emotions born of connection and relationship that are too often disregarded in academic discourse. Further, it is to use stories that are frequently categorized as ‘myth’, a category that has not served Indigenous peoples well as myths tend to be read as fantastical or make-believe. The relegation of Indigenous beliefs to the realm of the mythical, or even the spiritual, is further complicated by the fact that conservations of what Indigenous peoples consider ‘sacred’ must sometimes occur in court rooms . . . and in written testimonies. This can be problematic—or as Winona La Duke explains, quite ironic—because, in those spaces, ‘what is sacred to Native Americans [or other Indigenous peoples] will be determined by the government that has been responsible for doing everything in its power to destroy Native American [and other Indigenous] cultures’.

\textit{Id.} at 172 (quoting \textit{WINONA LA DUKE, RECOVERING THE SACRED: THE POWER OF NAMING AND CLAIMING} 11 (2005)).

\textsuperscript{150} Id. at 180.

\textsuperscript{151} Id.

\textsuperscript{152} Goodyear-Kaʻōpua, \textit{Protectors of the Future}, supra note 25, at 189.

\textsuperscript{153} HAWAIIAN DICTIONARY, supra note 1, at 9.


\textsuperscript{155} Id.
Kahoupokāne (the springs), and Lilinoe (the mist)—akua and waters of Maunakea—“give continued life through a healthy water supply.” Even today, “their wellbeing is stewarded by kānaka practitioners.” Maunakea is thus not only an elder but also a valuable water resource that must be “safeguard[ed] for future generations.”

These stories and names of Maunakea elucidate Kānaka Maoli’s connection—physical, spiritual, genealogical, and ecological—to ʻāina, including the mountain itself. They are the bases for, and help to make sense of, Kānaka Maoli’s responsibility to care for and protect the land and its natural resources. And they illuminate Maunakea’s centrality in Native Hawaiians’ understanding of themselves and the universe encompassing them.

B. Western Astronomy’s Occupation of Maunakea

Although Native Hawaiians intentionally left Maunakea undisturbed as a space reserved for akua, colonizers “strategically used the appearance of emptiness to justify their claims to land.” These early claims became astronomers’ basis for increased development of observatories on the summit of Maunakea. Western astronomers at work on observatories atop Haleakalā, Maui’s tallest peak, admired

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157 Kiyuna, supra note 156.

158 Case, supra note 127, at 171; Goodyear-Kaʻōpua, Protectors of the Future, supra note 25, at 189.

159 Case, supra note 127, at 180.

160 See id.


162 Similar to Maunakea, the summit of Haleakalā is both a wahi pana (storied place) and a sacred site for Native Hawaiians. The Haleakalā summit falls within those lands “ceded” to the United States upon annexation and later transferred to the State of Hawai‘i upon its 1959 admission into the United States. Haleakalā Crater, SACRED LAND FILM PROJECT (Sept. 1, 2008), https://sacredland.org/haleakala-crater-united-states/\text%20Holy%20site%20or%20wahi,spiritual%20wisdom%20and%20meditation.
Maunakea for its height and sought to use its summit that was unobstructed by cloud cover. Astronomers have since continued to praise Maunakea’s summit as “the finest [astronomical observing sight] in the world.”

In 1953, University of Hawai‘i Professor Walter Steiger made it his “goal to establish a solar observatory on the top of” one of Hawai‘i’s highest peaks. Soon after, Governor John Burns released funds to begin the construction of an access road to Maunakea’s summit, where astronomers housed the first telescope in 1964. The mountain quickly became renowned as “a truly superb site, the finest [many astronomers] had ever seen.”

Over the following decade, in Steiger’s words, “the spectacular developments on Mauna Kea began.” These developments were catalyzed, in part, as an effort to attract investors and revitalize Hilo’s economy after the county was devastated by a tsunami. In 1968, the Board of Land and Natural Resources approved a 65-year lease to the University of Hawai‘i for the lands referred to as the Mauna Kea Science Reserve, which included all lands above the 12,000-foot level of the mountain. In the same year, astronomers established the first observatory on Maunakea on Pu‘u Poli‘ahu.

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163 Steiger, supra note 161.


165 Steiger, supra note 161.


167 Steiger, supra note 161.

168 Id.

169 See Dickerson, supra note 166. In order to quickly attract astronomers and investors, the University of Hawai‘i rented land on Maunakea for only one dollar per year. See id.

170 1998 AUDIT, supra note 161.

171 Steiger, supra note 161. Steiger recalled the development of the first observatory proposed by John Jefferies in 1968: the 88-inch telescope “was a well-conceived plan” that was “a terrible blow to Dr. Kuiper, who felt ‘his mountain’ was ‘stolen’ from him . . . Regardless of the outcome, [Kuiper] must be acknowledged as the discoverer of Mauna Kea as a superb astronomical site.” Id.
In 1969, the University established the Institute for Astronomy (“IfA”) to facilitate research and education on astronomy. As more astronomers began work on the mountain, more foreigners began claiming Maunakea as their own. Failing to turn a profit, the observatories atop Maunakea have also seldom employed Native Hawaiians, with most positions being outsourced to organization and university investors. Moreover, the observatories gave rise to longstanding controversy within the local community because of the University’s mismanagement and its failure to consult with Native Hawaiians.

By 1974, three telescopes were in operation after being constructed without the appropriate Conservation District Use Permits, and three more telescopes were planned for development. Local groups, including conservationists, formed a coalition to challenge increased development on Maunakea’s summit. In response to these concerns, Governor George Ariyoshi issued a memorandum directing BLNR Chairman Sunao Kido and the Department of Land and Natural Resources (“DLNR”) to “develop and promulgate . . . a Master Plan for all of Mauna Kea[,]” assemble an advisory group to provide input for the plan, and incorporate the planning under lease to the University.

State and federal agencies, individual scientists, representatives from conservation organizations, and community members sought to weigh in on DLNR’s plan for Maunakea. But by 1976, the Department had not

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172 1998 AUDIT, supra note 161, at 8; see Steiger, supra note 161.

173 See 1998 AUDIT, supra note 161, at 8; Steiger, supra note 161.

174 Dickerson, supra note 166.


176 WILLIAM S. RICHARDSON SCHOOL OF LAW ENVIRONMENTAL LAW CLINIC, UNDERSTANDING MAUNA KEA: A PRIMER ON CULTURAL AND ENVIRONMENTAL IMPACTS 1 (2020) [hereinafter UNDERSTANDING MAUNA KEA].


179 Memorandum from Acting-Governor, supra note 178.

180 See Memorandum from Staff Planner Randal Jackson, Recreation Planning to Bd. Land Nat. Res. (July 20, 1976).
held any public hearings concerning the Mauna Kea Plan.\textsuperscript{181} Several members of the Mauna Kea Advisory Committee, the group assembled by DLNR to advise the plan, pushed for public hearings and the fencing off of certain areas for preservation.\textsuperscript{182} Most notably, the Committee unanimously agreed that the number of observatories on the summit should be limited to the six that were already approved.\textsuperscript{183} Former County of Hawai‘i Mayor Herbert T. Matayoshi also “strongly urge[d] that the number of telescopes be limited to the number presently on Mauna Kea.”\textsuperscript{184}

Many of the comments in DLNR’s 1976 Report on Community Comments for a Mauna Kea Plan reflect the same concerns echoed today regarding Maunakea’s future.\textsuperscript{185} For instance, community members sought to ensure the preservation of the forests and Native Hawaiian ecosystems on Maunakea and did not want to see any more development “scar the mountain.”\textsuperscript{186} One comment took issue specifically with astronomers’ argument that the telescopes provided employment opportunities and recalled IfA founding director John Jefferies’ assertion that the telescopes “offered good jobs[.].”\textsuperscript{187} In response to Jefferies’ remark, the commenter asked, rhetorically, “but for whom?”\textsuperscript{188}

In 1977, BLNR published its Mauna Kea Plan, “a set of broad guidelines to be reviewed and updated from time to time[,]” which ignored the recommended six-telescope limit on Maunakea.\textsuperscript{189} And, while many Hawai‘i Island locals recognized the scientific significance of the observatories, the community remained

[C]oncerned about the natural beauty of the mountain and about its historic and cultural heritage. Sites such as Puu Poliau [sic], home of the Hawaiian Goddess of Snow, and Lake Waiau atop the summit, “regarded by Hawaiians as a

\textsuperscript{181} See id.

\textsuperscript{182} Id.

\textsuperscript{183} Id.

\textsuperscript{184} Letter from Managing Director John Keppeler, County of Hawai‘i, to Chariman Christopher Cobb, Bd. Land Nat. Res. (Sept. 16, 1976); BIANCA ISAKI, SHELLEY MUNEOKA, & KUU LEI HIGASHI KANAEHELE, KU KIA‘I MAUNA: HISTORICAL AND ONGOING RESISTANCE TO INDUSTRIAL ASTRONOMY DEVELOPMENT ON MAUNA KEA, HAWAI‘I 2–3 (2019).

\textsuperscript{185} Memorandum from Staff Planner Randal Jackson, Recreation Planning to Bd. Land Nat. Res. (July 20, 1976).

\textsuperscript{186} See id.

\textsuperscript{187} Id.

\textsuperscript{188} Id. (emphasis added).

\textsuperscript{189} Plans Drawn for Majestic Mauna Kea, HAW. TRIB.-HERALD B-2 (Jan. 27, 1980). At the time, no limit on the number of observatories was placed by BLNR. Id.
sacred place and a cultural tie with the past,” should not be obliterated by haphazard development. And the rarefied atmosphere on the mountain’s higher slopes and summit surrounding unique Hawaiian ecosystems should not be unreasonably disturbed in the name of progress or scientific development.190

Members of the Waimea Hawaiian Civic Club191 also worried that the mountain would become overcrowded by “outsiders who do not have good ‘mana’o’ (thoughts) about preserving the valuable history of the mountain.”192 One member hoped to prevent “irreversible effects such as full-scale erosion of the mountain itself, not to mention the devastating effect it has on the existing historical sites.”193

Largely ignoring these concerns, IfA researchers sought to expand “astronomy as an enterprise on Mauna Kea” and aspired “to develop an academic program matching the excellence of our sites[.]”194 And while BLNR developed subsequent management plans,195 concerns over Mauna Kea’s mismanagement were never adequately addressed or resolved.196

By the late 1990s, Mauna Kea’s summit housed thirteen telescopes.197 And in 1998, the State Auditor published a scathing report detailing the state’s failure to adequately manage the natural and cultural

190 Id.
191 The Waimea Civic Club is a part of the Moku o Keawe (Hawai’i Island) Council within the Association of Hawaiian Civic Clubs, a not-for-profit organization that advocates for improved welfare of Native Hawaiians. The oldest Hawaiian community-based advocacy movement and governed by an 18-member volunteer Board of Directors, the Association of Hawaiian Civic Clubs is a federation of individual Hawaiian Civic Clubs located across Hawai’i and the continental United States. Our Organization | Ka ‘Ahahui, ASS’N HAWAIIAN CIVIC CLUBS, https://aohcc.org/our-organization/.
193 Id.
194 Id.
195 For a list and details of these management plans, see 2009 MANAGEMENT PLAN, supra note 164, SUB-PLANS—MAUNA KEA CULTURAL RESOURCES MANAGEMENT PLAN (CRMP) & MAUNA KEA NATURAL RESOURCES MANAGEMENT PLAN (NRMP), at 1-16–1-18.
196 1998 AUDIT, supra note 161, at 23. For instance, while historic preservation was an initial concern upon the signing of the University’s 1968 lease, the issue was only first addressed in 1983 in the state’s complex development master plan. Id. The plan, however, “did not adequately address preservation.” Id.
197 See id. at 2.
resources on Maunakea.\textsuperscript{198} The Auditor found that the University’s sole focus on developing Maunakea for astronomical research “overshadowed” the University’s obligation “to provide reasonable assurance of protection for the summit’s natural resources.”\textsuperscript{199} Plans developed by the University that outlined protection controls “were submitted late and were weakly implemented.”\textsuperscript{200}

The State Auditor traced Maunakea’s management problems (e.g., neglecting historic preservation, damage to historic sites) back to the University’s “limited approach to protection[.]”\textsuperscript{201} The cumulative “substantial, significant, and adverse”\textsuperscript{202} impacts on Maunakea’s natural, historical, and cultural resources spanned back to the building of the first three telescopes without CDUPs starting in 1986—including fluid and fuel spills (1979, 1982, 1995, 1996, 2004), the failure to adequately dispose of trash (1995), damage to historic sites (1991), habitat destruction (1996), and sewage overflows and spills (1998–2004, 2008).\textsuperscript{203} As the Auditor concluded in its 1998 report:

\[\text{[L]ittle was done to protect [Maunakea’s] natural resources.}\]

\[\text{The university, as the leaseholder, should have provided sufficient protection to the natural resources and controlled public access and use . . . The Department of Land and Natural Resources, in its role as landlord, should have overseen the university’s activities and enforced permit conditions and regulations in protecting the State’s interests.}\]

\[\text{Neither state agency has been proactive in maintaining the conservation district.}\]

In 1999, the University’s Board of Regents held committee meetings on the proposed draft of the 2000 Mauna Kea Master Plan for the

\textsuperscript{198} See Summary, in 1998 Audit, supra note 161 (“[M]anagement of the Mauna Kea Science Reserve is inadequate to ensure the protection of natural resources.”); UNDERSTANDING MAUNA KEA, supra note 176.

\textsuperscript{199} See 1998 Audit, supra note 161, at 15.

\textsuperscript{200} See id. at 18.

\textsuperscript{201} See id. at 21.


\textsuperscript{203} See UNDERSTANDING MAUNA KEA, supra note 176 (listing examples of cultural and environmental impacts on Mauna kea between 1968 and 2019).

\textsuperscript{204} 1998 AUDIT, supra note 161, at 34–35.
construction of more telescopes on Maunakea’s summit. At those meetings, Native Hawaiians “gave impassioned testimony about the sacredness of Mauna Kea, their opposition to further development, and their great distrust of the [U]niversity and the astronomy community.” After thirty years of astronomy on Maunakea, “it was the first time [the Board of Regents] heard such testimony firsthand.” In the decades that followed, Native Hawaiians continued to challenge further development of Maunakea’s summit.

Native Hawaiian practitioner and then-Regent Nainoa Thompson brought to light the broader justice issues that the Maunakea controversy reflected, explaining that “[t]his is really about abuse of the native people being subject to racism and disrespect. This is an opportunity for a real turning point, a defining moment.” The same sentiment has been emphasized in recent years as the controversy over Maunakea has made international headlines. Protectors of the sacred mountain emphasize that “the movement we are witnessing today is not new . . . It has been at least a century in the making, from the first arrival of colonialism in Hawaiian lands.” For Native Hawaiians, the continued development on these lands “is fundamentally indistinguishable from earlier colonization activities.”

IV. THE STATE’S AFFIRMATIVE DUTY TO PROTECT NATIVE HAWAIIAN TRADITIONAL AND CUSTOMARY RIGHTS

Shaped by a culture unique to Hawai‘i, the state’s laws are comprised of special legal protections for Hawai‘i’s people, land, and natural resources. Both inspired by and affirming Native Hawaiian tradition and custom, the state’s laws—in the Constitution, Hawai‘i Revised Statutes

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206 Id.

207 Id.

208 See generally ISAKI ET AL., supra note 184 (detailing the decades of Native Hawaiian resistance against development on Maunakea).

209 Kreifels, supra note 205.


212 Leandra Swanner, Instruments of Science or Conquest? Neocolonialism and Modern American Astronomy, 47 HIST. STUD. NAT. SCI. 293, 296 (2017); see infra Parts V.C–VI.
“HRS”), and case law handed down from the Hawai‘i Supreme Court—
include intentionally-crafted legal protections for Native Hawaiian
traditions and customs.213 The State of Hawai‘i has an affirmative duty to
protect Native Hawaiians’ traditional and customary rights,214 and these
rights are a protected public trust purpose under Hawai‘i’s public trust
doctrine.215

A. Native Hawaiian Traditional and Customary Rights

Notwithstanding the onset of drastic changes to Hawai‘i’s cultural
and political landscape as a result of American colonization, “[a]ncient
Hawaiian usage [] survived the transition from communal land tenure to a
Western system of private property rights[,]”216

A landmark result of the 1978 Constitutional Convention, the duty
to protect traditional and customary rights was codified into the Hawai‘i
Constitution as Article XII, section 7, which provides: “[t]he State
reaffirms and shall protect all rights, customarily and traditionally
exercised for subsistence, cultural and religious purposes and possessed by
ahupua’a tenants who are descendants of native Hawaiians who inhabited
the Hawaiian Islands prior to 1778, subject to the right of the State to
regulate such rights.”217 “Against the backdrop of rising consciousness
now known as The Hawaiian Renaissance,”218 delegates to the Convention
intended that the provision “encompass all rights of Native Hawaiians
such as access and gathering.”219 In an effort to rectify some of the wrongs
committed against Native Hawaiians since the 1893 overthrow of the
Hawaiian Kingdom, delegates sought to codify these rights that were “an
integral part of the ancient Hawaiian civilization and are retained by its
descendants.”220

213 See, e.g., HAW. CONST. art. XII, § 7; HAW. REV. STAT. ANN. §§ 1-1, 7-1 (West
2019).

214 HAW. CONST. art. XII, § 7; HAW. REV. STAT. ANN. §§ 1-1, 7-1 (West 2019).

215 HAW. CONST. art. XI, § 1; D. KAPUA’ALA SPROAT, OLA I KA WAI: A LEGAL
PRIMER FOR WATER USE AND MANAGEMENT IN HAWAI‘I 7 (Dec. 2009) [hereinafter
SPROAT, OLA I KA WAI].

216 See David M. Forman & Susan K. Serrano, Traditional and Customary Access

217 HAW. CONST. art. XII, § 7.

218 A. U‘ilani Tanigawa Lum, Accessing Traditional Kīpuka: Protecting the
Storehouse of Knowledge Through the Rule of Law, 20 ASIAN-PAC. L. & POL’Y J. 69, 77–
78 (2019) (internal quotations omitted).

PROCEEDINGS OF THE CONSTITUTIONAL CONVENTION OF HAWAII OF 1978 at 637, 640
(1980).

220 Id.; Forman & Serrano, supra note 216, at 786–87 (“[I]n November 1978, state
voters approved [the] amendment to the Hawai‘i Constitution that sought to provide further
HRS section 1-1 provides further protections for Native Hawaiian traditional and customary practices:

The Common law of England, as ascertained by English and American decisions, is declared to be the common law of the State of Hawaii in all cases, except as otherwise expressly provided by the Constitution or laws of the United States, or by the laws of the State, or fixed by Hawaiian judicial precedent, or established by Hawaiian usage[.]

Section 1-1 codifies the doctrine of custom into Hawai‘i’s common law. Although Native Hawaiian traditional and customary rights are not expressly referenced in the statute, the Hawai‘i Supreme Court has cited that the Hawaiian usage exception in section 1-1 is a basis for protecting those rights.

HRS section 7-1 also protects Native Hawaiian traditional and customary gathering rights “on the premise that they ‘were necessary to insure the survival of those who, in 1851, sought to [continue to] live in accordance with the ancient ways.’”

The Hawai‘i Supreme Court has protected Native Hawaiians’ traditional and customary rights on the basis of HRS section 1-1, section 7-1, and Article XII, section 7. Authored by the Hawai‘i Supreme Court’s first Native Hawaiian justice, Chief Justice William S. Richardson (“CJ Richardson”), Kalipi v. Hawaiian Trust Co. (1982) was the first of his court’s landmark decisions that would uphold protections for Native Hawaiian traditional and customary rights. CJ Richardson’s “opinions

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221 HAW. REV. STAT. ANN. § 1-1 (West 2019) (emphasis added).

222 In English law, the doctrine of custom describes “an ancient rule of law for a particular locality, as opposed to the common law of the country. It has its origin in the Anglo-Saxon period, when local customs formed most laws affecting family rights, ownership and inheritance, contracts, and personal violence.” The Editors of Encyclopedia Britannica, Custom, BRITANNICA (Feb. 4, 2018), https://www.britannica.com/topic/custom-English-law.

223 See HAW. REV. STAT. ANN. § 1-1 (West 2019).


225 Tanigawa Lum, supra note 218, at 89 (quoting Kalipi v. Hawaiian Trust Co., 66 Haw. 1, 8, 656 P.2d 745, 750 (1982)).

226 See id. at 89; Ka Pa’akai O Ka ‘Āina v. Land Use Comm’n, 94 Haw. 31, 7 P.3d 1068 (2000).

227 Kalipi, 66 Haw. 1, 656 P.2d 745 (affirming that pursuant to Article XII, section 7 of the state constitution that Hawai‘i courts are obligated to preserve and enforce Native Hawaiian traditional and customary rights).
reflect his humble background, his commitment to a more open society with equal opportunity for Hawai‘i’s multi-ethnic population, and his strong belief in looking to Hawai‘i’s rich past as a source of today’s law.”

Reflecting on his court’s approach, and exemplifying “i ka wā ma mua, ka wā ma hope,” CJ Richardson explained,

While the [Native Hawaiian] culture had largely been displaced, nevertheless many of the underlying guiding principles remained. We set about returning control of interpreting the law to those with deep roots and profound love for Hawai‘i . . . [W]e made a conscious effort to look to Hawaiian custom and tradition in deciding our cases[.]

CJ Richardson “broke new ground” for traditional and customary rights with his 1982 Kalipi decision, which held that HRS section 7-1 “assure[s] that lawful occupants of an ahupua‘a may, for the purposes of practicing native Hawaiian customs and traditions, enter undeveloped lands within the ahupua‘a to gather those items enumerated in the statute[.]

By recognizing that gathering rights are also protected by HRS section 1-1 and Article XII, section 7 of the Hawai‘i State Constitution, the Richardson court in Kalipi “set the foundation for more recent cases affirming traditional and customary rights[,]” such as Pele Defense Fund and PASH. In Pele Defense Fund, the court broadened the black letter of the law to better reflect native practices by concluding that Native Hawaiians’ exercise of traditional and customary rights was not limited to practitioners’ ahupua‘a of residence. Native Hawaiians’ traditional and customary rights, the court held, should not be “narrowly construed or ignored by the court.” In Public Access Shoreline Hawaii v. Hawai‘i County Planning Commission (“PASH”) (1995), the Hawai‘i Supreme Court reaffirmed Native Hawaiians’ traditional and customary rights under Article XII, section 7 and held that the state is “obligated to protect the reasonable


229 Id. at 6–7 (quoting William S. Richardson, Spirit of Excellence Award Acceptance Speech at the ABA Spirit of Excellence Awards Luncheon (Feb. 10, 2007)).

230 Id. at 9, 11.

231 Kalipi, 66 Haw. at 7–8, 656 P.3d at 749.

232 MacKenzie, Ka Lama Kū, supra note 228, at 11–12.


234 See id. at 619–20, 837 P.2d at 1271.
exercise of traditional and customary rights to the extent feasible under Hawai‘i’s laws.\textsuperscript{235} 

\textit{Ka Pa’akai O Ka ‘Āina v. Land Use Commission} ("Ka Pa’akai") (2000) then introduced the analytical framework state agencies must use to operationalize their fiduciary duty under Article XII, section 7.\textsuperscript{236} \textit{Ka Pa’akai} also clarified that the provision requires that agencies “actively research and consider the cultural, historical, and natural resources of a subject property as they relate to Native Hawaiian rights when determining what restrictions should be placed on land use.”\textsuperscript{237} This decision “is monumental for its recognition of the State’s ‘affirmative duty . . . to preserve and protect traditional and customary Native Hawaiian rights’ and for providing the framework for agencies to employ when evaluating competing interests” of these rights against the “ever-growing private property interests[.]”\textsuperscript{238}

\textbf{B. Traditional and Customary Rights as a Protected Public Trust Purpose}

Hawai‘i’s public trust doctrine, codified as Article XI, section 1 of the state constitution, also protects Native Hawaiians’ traditional and customary rights.\textsuperscript{239} The public trust doctrine, articulated in Hawai‘i law, is rooted in and is consistent with Native Hawaiian custom and tradition, and the Maoli values upon which the public trust doctrine was founded have been upheld and elevated in Hawai‘i long before Article XI, section 1’s codification into state law.\textsuperscript{240} "Based on ancient tradition, custom, practice

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\textsuperscript{236} \textit{Ka Pa’akai O Ka ‘Āina v. Land Use Comm’n}, 94 Haw. 31, 7 P.3d 1068 (2000); Forman & Serrano, \textit{supra} note 216, at 799.

\textsuperscript{237} Forman & Serrano, \textit{supra} note 216, at 804. The three-part framework requires findings of fact and conclusions regarding:

(1) the identity and scope of “valued cultural, historical, or natural resources” in the petition area, including the extent to which traditional and customary native Hawaiian rights are exercised in the petition area

(2) the extent to which those resources—including traditional and customary native Hawaiian rights—will be affected or impaired by the proposed action; and

(3) the feasible action, if any, to be taken by the LUC to reasonably protect native Hawaiian rights if they are found to exist.

\textit{Id.} at 799 (quoting \textit{Ka Pa’akai}, 94 Haw. at 35, 7 P.3d at 1072).

\textsuperscript{238} Tanigawa Lum, \textit{supra} note 218, at 82.

\textsuperscript{239} \textit{HAW. CONST.} art. XI, § 1.

\textsuperscript{240} \textit{SPROAT, OLA I KA WAI}, \textit{supra} note 215, at 7 ("[C]ases and laws from the Kingdom of Hawai‘i, along with Hawaiian custom and tradition, firmly established the
That “private ownership of land had no place in early Hawaiian thought” directly shaped and continues to inform the development of law and policy in Hawai‘i. For instance, in 1978 the Constitutional Convention amended the state’s constitution “to clarify the policy of the State with regard to resources” and promote the protection of Hawai‘i’s natural resources. Since then, the constitution has required that:

For the benefit of present and future generations, the State and its political subdivisions shall conserve and protect Hawaii’s natural beauty and all natural resources, including land, water, air, minerals and energy sources, and shall promote the development and utilization of these resources in a manner consistent with their conservation and in furtherance of the self-sufficiency of the State.

All public natural resources are held in trust by the State for the benefit of the people. (principle that natural resources, including water, were not private property, but were held in trust by the government for the benefit of the people.”).

See In re Ashford, 440 P.2d 76, 77 (1968) (citing Keelikolani v. Robinson, 2 Haw. 514 (1862)) (“Hawaii’s land laws are unique in that they are based on ancient tradition, custom, practice and usage.”)

See NATIVE HAWAIIAN LAW: A TREATISE 9 (MELODY KAPIILALOHA MACKENZIE ET AL. EDs., 2015).

See TRANSLATION OF THE CONSTITUTION AND LAWS OF THE HAWAIIAN ISLANDS, ESTABLISHED IN THE REIGN OF KAMEHAMEHA III 11–12 (1842) (quoting THE CONSTITUTION OF 1840) (“Exposition of the Principles on Which the Present Dynasty is Founded. The origin of the present government, and system of polity, is as follows. Kamehameha I, was the founder of the kingdom, and to him belonged all the land from one end of the Islands to the other, though it was not his own private property. It belonged t the chiefs and people in common, of whom Kamehameha I was the head, and had the management of the landed property.”); THE DECLARATION OF RIGHTS OF 1839 (“Protection is hereby secured to the persons of all the people, together with their lands, their building lots and all their property and nothing whatever shall be taken from any individual”). Accordingly, the Hawai‘i Supreme Court has held that “[t]he public trust, by its very nature, does not remain fixed for all time, but must conform to changing needs and circumstances.” In re Waiāhole Combined Contested Case Hearing, 94 Haw. 97, 135, 9 P.3d 409, 447 (2000) [hereinafter Waiāhole I].


Id. The former constitutional provision that was deleted and replaced by Article XI, section 1 read: “The legislature shall promote the conservation, development and
According to the Convention’s Committee on Environment, Agriculture, Conservation and Land, the language “For the benefit of present and future generations” was included because the Committee felt it important to “affirm[] the ethical obligations of this generation toward the next” and ensure that the law is “consistent with the concept that the Constitution should provide for the future.”\(^\text{246}\) Article XI, section 1, as held by the Hawai‘i Supreme Court, “adopt[s] the public trust doctrine as a fundamental principle of constitutional law in Hawai‘i.”\(^\text{247}\) Thus far, the court has affirmed that public trust purposes were intended to include: environmental protection, traditional and customary Native Hawaiian rights, appurtenant rights, domestic water uses, and reservations for the Department of Hawaiian Homelands.\(^\text{248}\)

Native Hawaiian traditional and customary rights are protected as a public trust purpose under Hawai‘i’s public trust doctrine, as outlined by the watershed case In re Waiāhole Combined Contested Case Hearing ("Waiāhole I") (2000).\(^\text{249}\) In Waiāhole I, the Hawai‘i Supreme Court held that the public trust exacts a “dual mandate of: 1) protection and 2) maximum reasonable and beneficial use” of waters, a public trust resource.\(^\text{250}\) Further, public trust purposes “have priority over private commercial uses, which do not enjoy the same protection.”\(^\text{251}\) Since “use consistent with trust purposes [are] the norm or ‘default’ condition,” the state’s balancing between public and private purposes “must begin with a presumption in favor of public use, access, and enjoyment.”\(^\text{252}\) Moreover, Waiāhole I established the state’s “affirmative duty . . . to protect public trust uses whenever feasible.”\(^\text{253}\) In Kauai Springs, Inc. v. Planning Comm’n of Kaua‘i (“Kaua‘i Springs”) (2014), the court further recognized and affirmed the “separate and enduring public rights in trust resources” that remain “superior to any private interest.”\(^\text{254}\)

Utilization of agricultural resources, and fish, mineral, forest, water, land, game and other natural resources.”\(^\text{Id.}\)

\(^\text{246}\) Id

\(^\text{247}\) Waiāhole I, 94 Haw. at 132, 9 P.3d at 444.

\(^\text{248}\) Id. at 137–39, 9 P.3d at 449–51.

\(^\text{249}\) Id.; In re Wai‘ola o Moloka‘i, Inc., 103 Haw. 401, 430–31, 83 P.3d 664, 693–94 (2004) [hereinafter Wai‘ola] (“We have consistently recognized the heightened duty of care owed to native Hawaiians.”); SPROAT, OLA I KA WAI, supra note 215, at 8.

\(^\text{250}\) Waiāhole I, 94 Haw. at 139, 9 P.3d at 451; Sproat, OLA I KA WAI, supra note 215, at 7–8.

\(^\text{251}\) SPROAT, OLA I KA WAI, supra note 215, at 8.

\(^\text{252}\) Waiāhole I, 94 Haw. at 142, 9 P.3d at 454.

\(^\text{253}\) Id. at 141, 9 P.3d at 453.

\(^\text{254}\) Kauai Springs, Inc. v. Planning Comm’n of Kaua‘i, 133 Haw. 141, 173, 324
Pursuant to the state’s laws and the unique principles underlying them, the state has a duty to “conserve and protect [Maunakea’s] natural beauty and all [its] natural resources.” Moreover, the state’s public trust doctrine protects Native Hawaiian traditional and customary rights on the summit of Mauna a Wākea. The majority’s narrative and holding, however, hold neither BLNR nor the University accountable for their repeated failures to adequately protect Maunakea and its resources, including Kānaka Maoli’s traditional and customary rights.

V. (Re)Shaping Ka Wā Ma Mua: The Battle over Collective Memory of Injustice Shrouding Maunakea

The most recent controversy concerning Maunakea, the proposed TMT, threatens to further desecrate Maoli lands and curtail Native Hawaiians’ protected rights. In 2008, the TMT International Observatory, LLC (“TIO”) consulted with the University of Hawai‘i to assess the development of the TMT on Maunakea, chosen for its pristine atmospheric conditions. Following a 2010 Final Environmental Impact Statement (“EIS”), TIO submitted Conservation District Use Application (“CDUA”) HA-3568 for the TMT in the same year.

Maunakea, with its thirteen existing telescopes, is already home to more astronomical observatories than any other mountain peak in the world. If built, the proposed TMT would tower over Hawai‘i Island as the largest building on the isle. The structure, planned to be built within the conservation district, would occupy over five acres of land just 600 feet below the summit ridge.
The contentious project, like other telescopes and observatories before it, was met with resistance by Kānaka Maoli “working to assert and protect their genealogical connections to elements and deities of the mountain against an expanding footprint of astronomical observatories and telescopes.”\(^{263}\) Kiaʻi Mauna, protectors of Maunakea, explained that the eighteen-and-a-half story structure would desecrate the sacred summit, which had already suffered substantial, adverse impacts from the existing observatories that occupied the summit area.\(^{264}\) They also argued that BLNR, by approving the TMT’s permit application, violated its constitutional duty to protect Native Hawaiian traditional and customary rights.\(^{265}\) In 2011, the Board approved the TMT’s Conservation District Use Permit (“CDUP” or “permit”), despite strong Maoli-led opposition and without holding an administrative trial or contested case hearing that would determine the rights of Native Hawaiians in the matter.\(^{266}\)

In April 2015, thirty-one Kiaʻi Mauna were arrested for “‘trespassing’ on government property and ‘obstructing’” the access road to the summit in an effort to halt the TMT’s construction.\(^{267}\) Meanwhile, in the courts, grassroots community group Mauna Kea Anaina Hou and other Kiaʻi\(^{268}\) challenged the permit, contending that BLNR “put the cart before the horse” by prematurely approving the CDUP.\(^{269}\) The Board claimed, on the other hand, that the approval was a preliminary decision and that the construction of the TMT was stayed pending the outcome of a contested case hearing.\(^{270}\) The Hawaiʻi Supreme Court ruled in favor of the Kiaʻi petitioners, holding that the CDUP was invalid and ordering a new contested case hearing for the CDUA.\(^{271}\)

The following year, the state legislature passed a statute allowing contested cases regarding conservation districts to be directly appealed to the Hawaiʻi Supreme Court.\(^{272}\) In 2016, as ordered by the *Mauna Kea I*
court, BLNR began its second contested case for the TMT before a new Hearing Officer, former Judge Riki May Amano, who concluded that the permit should be granted.\textsuperscript{273} In accord with Hearing Officer Amano’s recommendation, BLNR again approved the TMT’s CDUA and granted its permit.\textsuperscript{274}

In February 2018, Native Hawaiian cultural practitioners appealed to the Hawai‘i Supreme Court, where they argued that the permit approval violated BLNR’s public trust duties and its duty to protect Native Hawaiian traditional and customary rights and practices.\textsuperscript{275} By October 2018, the court majority published its decision that affirmed that BLNR properly issued the telescope’s CDUP.\textsuperscript{276}

Less than a year later, on July 10, 2019, Hawai‘i State Governor David Ige and TIO announced that the TMT’s construction would begin on July 15, 2019.\textsuperscript{277} Hundreds of Kia‘i Mauna, anticipating the beginning of construction, convened again on Maunakea to block vehicles carrying construction equipment for the TMT from reaching the summit.\textsuperscript{278} In an emotional confrontation for Kia‘i and local law enforcement officers, police arrested thirty-three kūpuna (elders) who had placed themselves on the frontline.\textsuperscript{279} Kia‘i were unshaken and maintained their presence, with thousands of other Kānaka and their allies convening—along the access

Revised Statutes § 183C-9 to make final decisions and orders from contested cases concerning conservation districts directly appealable to this court. 2016 Haw. Sess. Laws Act 48, §§ 2 & 14 at 76, 82.” \textit{Mauna Kea II}, 143 Haw. at 387 n.4, 431 P.3d at 760 n.4.


\textsuperscript{274} \textit{Mauna Kea II}, 143 Haw. at 387, 431 P.3d at 760.

\textsuperscript{275} See id. at 395, 431 P.3d at 768.

\textsuperscript{276} Id. at 409, 431 P.3d at 782. In an unprecedented maneuver, first published its decision without Justice Michael D. Wilson’s dissent. See id. at 379, 431 P.3d at 752.


\textsuperscript{279} KITV Web Staff, 33 Kupuna Arrested for Protesting on Mauna Kea, KITV4 ISLAND NEWS (July 17, 2019), https://www.kitv.com/story/40804841/33-kupuna-arrested-for-protesting-on-mauna-kea.
road, at rallies on neighboring islands, and across the world—in support of protecting Maunakea.280

Mauna Kea II reignited a public battle over the story of Maunakea.281 The majority opinion, contrasted against Kānaka Maoli’s ancestral claims and their kuleana to Maunakea, also highlights an even broader centuries-long battle over the collective memory of Hawai‘i that will play an integral role in determining the future of Maunakea and the future of Kānaka Maoli and their struggles for justice.282

As “outsiders” in a foreign legal system, Native Hawaiians’ memories have often been ignored.283 And, in effect, their justice struggles are inadequately addressed by Hawai‘i’s courts and by state agencies and their departments.284 Despite protections explicitly guaranteed by the Hawai‘i State Constitution, as made apparent by Mauna Kea II, the state has yet to “fully embrace[. . .] its trust responsibility” to Native Hawaiians.285 In an uphill battle against a whitewashed, popularized narrative, Kānaka Maoli have fought for decades to reshape collective memory to reflect a more complete story of Mauna a Wākea.286 By bringing typically “forgotten” events back to the forefront, Native Hawaiians deployed collective memory as a tool in a struggle over justice for Maunakea—a struggle to protect against the state-sanctioned desecration of Kānaka Maoli’s ancestral land, to prevent further destruction of a sacred ancestor, and to preserve the mountain and its resources for the generations to come. Before BLNR, the state supreme court, and the general public, Kia‘i sought to reshape mainstream narratives told about Maunakea, and Kānaka generally, in a valiant effort to protect their sacred mountain and bolster other justice claims.

The majority for Mauna Kea II, on the other hand, employed a brief, selective “history” of Maunakea to justify affirming BLNR’s approval of the TMT.287 It told a historical narrative that, deliberately or not, removed

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281 See, e.g., Tribune Herald Staff, supra note 279; Lam, supra note 280; see generally Mauna Kea II, 143 Haw. 379, 363 P.3d 752.

282 See Hom & Yamamoto, supra note 5, at 1765.

283 See id.

284 See id.


286 See infra Parts V–VI.

287 See generally Mauna Kea II, 143 Haw. 379, 431 P.3d 752.
Native Hawaiians from the centuries-old story of Maunakea. A narrative that relieved the state of its public trust obligations and disemboweled Native Hawaiians’ constitutionally protected traditional and customary rights. A narrative that is in lockstep with other colonizers’ accounts of Hawai’i’s history—one that begins with and revolves around Western contact and its ostensible benefits gifted to Kānaka Maoli.

A. The majority’s “history” of Maunakea is almost entirely void of Native Hawaiians and obscures Kānaka Maoli’s deep-seated connections to Mauna a Wākea.

By integrating ‘ike kūpuna (ancestral insight) with current claims of right, Kia’i petitioners told an “ancestral” collective memory—a “genealogy preserved orally over generations through chants.” Kia’i consistently reiterated what Kānaka Maoli have known since time immemorial: Mauna a Wākea is sacred. And through oli and mo’olelo, they told stories of their familial connection to the ‘āina and to Mauna a Wākea. These stories, Kia’i urged, “are not myths but rather teaching tools[,]” about Native Hawaiians’ kuleana to care for the ‘āina, including Maunakea, for future generations, just as Kānaka Maoli have always done.

Kia’i explained that Maoli identity has always been intimately tied to Maunakea and its well-being. “It is clear that to many Hawaiians,
Mauna Kea is more than a mountain; it is the embodiment of the Hawaiian people. Kānaka testified about their genealogy—extending back to Papa and Wākea—that imparts upon them a responsibility as stewards to protect the ‘āina—in this case, Maunakea—consistent with and in furtherance of Native Hawaiian tradition.

The Mauna Kea II majority, however, relegated Kānaka Maoli’s experiences to a short paragraph providing a vague, “objective” overview of what “some Native Hawaiians consider” Maunakea to be. The majority opinion opened by appearing to acknowledge Maunakea’s spiritual significance to Native Hawaiians. The one-paragraph summary ended as quickly as it began, and it failed to capture the tremendous significance Maunakea holds for Kānaka Maoli, traditionally and to this day. By failing to convey Native Hawaiians’ deep-rooted, genealogical connection to Maunakea, the majority limited Native Hawaiians’ claims of right to the sacred mountain.

Providing no further explanation aside from a simple definition, the majority stated that Maunakea is “wao akua (the place where gods reside)[.]” “Before Western contact[,]” the majority writes, “the summit area was considered kapu (taboo) to all but the highest chiefs and priests, and unavailable to the general public.” This account did not attempt to relay the complexities of kapu or wao akua and how they function together. Instead, it mirrored Westerners’ descriptions that “few Hawaiians travelled to the summit area of Mauna Kea” making it “largely unknown even to the native populations.” The court’s collective memory of injustice, though it does make mention of Native Hawaiians, also simultaneously erases Native Hawaiians from its narrative of Maunakea.

297 Flores-Case Proposal, supra note 144, at 23 FOF 183 (quoting MALY & MALY, supra note 142, at 1).

298 Pisciotta Testimony, supra note 295, at 2, 5, 7; Flores Testimony, supra note 293, at 18; Rios Testimony, supra note 293, at 1–2.


300 Id.

301 Id. at 384–85, 431 P.3d at 757–58.

302 See id.

303 Id. at 384, 431 P.3d at 757.

304 Id. at 385, 431 P.3d at 758.

305 See id.


Nowhere in the opinion did the majority clarify that kapu was neither just a set of restrictions nor a prohibitive system. It did not include that kapu was a “code of conduct” for Kānaka that facilitated this Indigenous society’s creation and implementation of conservation practices; or, that the kapu marked the sacred and required Kānaka to understand their relationship to those hallowed sites (e.g., areas marked as wao akua) and entities. The Board and, subsequently, the majority ignored testimony that explained the Mauna’s holy status, which:

[W]as known from the remote times of the ancient ones. It is for this reason that amongst the countless ancestors of Kanaka Maoli and numerous ali‘i (chieftly) dynasties that lived in these islands, they never built any large heiau (temples) on the summit in this realm that is considered kapu . . . so as not to create a physical and/or spiritual disturbance, disconnection, or imbalance between man and his akua, and between man and his environment.

Instead, the majority’s framing of kapu plays into the Western caricature of a punitive system that restricted maka‘āinana (common people) from freedoms that only privileged ali‘i (chiefs) could enjoy. The majority, therefore, completely misunderstood and mischaracterized Native Hawaiians’ relationship to Maunakea. By the court’s account, Native Hawaiians seem to have benefited from the increased access to the

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308 See generally id.
310 See Mauna Kea LUC, supra note 146; Steele, Professor Jon Osorio, supra note 130; Charles Kekuewa Pe‘ape‘a Makawalu Burrows, Hawaiian Conservation Values and Practices, in CONSERVATION BIOLOGY IN HAWAII 203, 205 (1989) (Kapu was “used as a conservation measure to protect the over-exploitation of natural resources.”).
311 Interview with Jamaica Heolimeleikalani Osorio, Assistant Professor, University of Hawai‘i Department of Political Science, in Mānoa, Haw. (Feb. 18, 2020).
312 Flores Testimony, supra note 293, at 18 (emphasis removed).
313 See HAWAIIAN DICTIONARY, supra note 1, at 224.
314 See Rice v. Cayetano, 528 U.S. 495, 500 (2000) (“Kings or principal chieftains, as well as high priests, could order the death or sacrifice of any subject.”). Dr. Jamaica Heolimeleikalani Osorio explained that the state and others local to Hawai‘i are “accustomed to think of kapu as obstructions, as something tell you to keep out,” and it has often been used contemporarily to keep Native Hawaiians out of their homelands. Interview with Jamaica Heolimeleikalani Osorio, Assistant Professor, University of Hawai‘i Department of Political Science, in Mānoa, Haw. (Feb. 18, 2020).
summit, which was once “forbidden,” via roads built for the observatories.\textsuperscript{316} 

Opposite the majority, in order to accurately reflect Native Hawaiians’ history on Maunakea, Kia‘i underscored the significance of wao akua and kapu. Within wao akua, Kia‘i explained, Maunakea’s summit is an especially sacred landscape.\textsuperscript{317} And while select ceremonial and spiritual practices take place at the summit, Kia‘i emphasized that many Native Hawaiians refrain from entering into that sacred space all together as a practice of reverence.\textsuperscript{318} Even more than a cultural practice, Kia‘i urged, Kānaka Maoli’s sacred conduct on the summit is a kuleana—a birthright borne from the familial connection between Kānaka and their elder Mauna a Wākea.\textsuperscript{319}

The court’s framing obscures Native Hawaiians’ genealogical connection and deep-seated relationship with the mountain. The absence of physical “evidence” of Native Hawaiian practices occurring on the summit was construed by the court as indicative that there were no cultural or spiritual practices that ever took place there.\textsuperscript{320} By twisting wao akua and kapu, the majority construed Kānaka Maoli’s physical absence from the summit to intimate that since Native Hawaiians were traditionally restricted from physically accessing the summit, then they could not have a legitimate claim today.\textsuperscript{321} But, as Kia‘i asserted, the court’s “use it or lose it” justification reinforces a colonial lens incompatible with Maoli culture and worldviews.\textsuperscript{322} The court’s approach blatantly ignores kapu and wao akua, some of the very Native Hawaiian customs that influenced current state law and that the state is obligated to protect.\textsuperscript{323} Both BLNR and the court failed to recognize that revering wao akua and the sacred mountain—by not building structures or frequenting the areas—is a cultural and spiritual practice in and of itself.\textsuperscript{324}

\textsuperscript{316} See id.


\textsuperscript{318} Id. at 105–07.

\textsuperscript{319} Id.

\textsuperscript{320} See id.

\textsuperscript{321} See id.

\textsuperscript{322} See id.

\textsuperscript{323} See id.

\textsuperscript{324} See generally id. (affirming BLNR’s findings of fact and conclusions of law); BLNR TMT Decision, supra note 202 (finding no relevant Native Hawaiian traditions and customs warranting state protection).
court threatens any traditions or customs that risk being misinterpreted—or misconstrued, intentionally or not—by the state, and it dangerously reaffirms the colonial-borne court system’s grasp over Native Hawaiians’ fragile rights. 325

The remainder of the majority’s opinion, aside from stating that archaeological research reveals the existence of an adze quarry on the southern slopes of the mountain, treated Native Hawaiians and their interests in the Mauna as peripheral, and Native Hawaiians are mentioned only as an afterthought. 326 After its scant overview of the “history” of Maunakea before Western contact in 1778, the majority skipped forward two-hundred years to post-statehood in 1968, offering a collective memory of Maunakea that barely mentioned Native Hawaiians at all. 327

The majority overviewed the establishment of the Mauna Kea Science Reserve and then listed all twelve observatories built between 1970 and 2002. 328 It details the “direct” and “obvious benefits” of the TMT and the twelve already-existing observatories on the mountain’s summit. 329 The majority’s emphasis on the already-existing observatories implies that the next “natural” step is building the TMT, another “advanced world-class telescope.” 330 By the majority’s account, the TMT is just one more telescope that should take its rightful place next to the other thirteen already occupying Maunakea. 331

The erasure of Native Hawaiians from the majority’s “history” of Maunakea justifies the state’s continuing exclusion of Native Hawaiians from making decisions on matters regarding the summit. 332 The majority, intentionally or not, evoked the same collective memories deployed by Justice Kennedy’s majority opinion in Rice v. Cayetano and the late Justice Burns’ “The Crown Lands Trust: Who Were, Who Are, the Beneficiaries?”,

325 See Mauna Kea II, 143 Haw. 379, 396–97, 431 P.3d 752, 769–70; BLNR TMT Decision, supra note 202.

326 See Mauna Kea II, 143 Haw. at 385, 431 P.3d at 758.

327 See id. at 396–97, 431 P.3d at 769–70.

328 Id.

329 Id. at 402, 431 P.3d at 775.


331 Mauna Kea II, 143 Haw. at 385, 431 P.3d at 758. The twelve observatories on Maunakea house a total of thirteen telescopes. Id.

332 See id. at 402, 431 P.3d at 775.

333 See id.

334 See id.
both of which told narratives also justifying undermining Native Hawaiians’ rights and justice claims.\textsuperscript{335}

The majority actively ignored, and thus rendered insignificant or irrelevant, Maoli testimony and well-established Native Hawaiian traditions and customs.\textsuperscript{336} The erasure of Native Hawaiians from the majority’s narrative of Maunakea effectively threatens Native Hawaiians’ constitutionally protected traditional and customary rights.\textsuperscript{337} The brief “history” provided by the majority as a background to \textit{Mauna Kea II} sets up the rest of the court’s analysis that, also through skewing “history” and suppressing Native Hawaiians’ collective memory of injustice, minimized the state’s duty to protect natural and cultural resources on public and conservation district lands and cuts away at Native Hawaiians’ protected rights enshrined in Hawai’i’s Constitution.\textsuperscript{338}

\subsection*{B. The majority ignored decades of the University and DLNR’s mismanagement of Maunakea and the significant, substantial and adverse impacts to the summit.}

To justify the majority conclusion that BLNR did not violate its constitutional duty to protect the summit and traditional and customary rights by permitting the TMT, the majority glossed over the decades of UH’s mismanagement of the mountain;\textsuperscript{339} ignored the long-term substantial, adverse impacts to public trust lands, resources, and purposes that it concedes the observatories have effected;\textsuperscript{340} and applied a framework that allows the state to ignore the cumulative impacts to conservation and public trust lands.\textsuperscript{341}

For the first time, in \textit{Mauna Kea II}, the Hawai’i Supreme Court explicitly held that state-managed conservation district lands “are public resources held in trust for the benefit of the people pursuant to Article XI, Section 1.”\textsuperscript{342} Despite the majority’s concession that the telescopes’ cumulative effects already caused substantial, adverse impacts, the majority nonetheless held that the “use of the land by TMT is consistent with conservation and in furtherance of the self-sufficiency of the State.”\textsuperscript{343}
Therefore, the court concluded, “the TMT comports with Article XI, Section 1 public trust principles and . . . the BLNR met its duties as trustee under [Article XII, Section 4] public land trust.”

The majority justified this conclusion by evading details of the state’s mismanagement of Maunakea’s natural and cultural resources and by ignoring its own case precedent regarding public trust lands. Using what Justice Wilson’s dissent called “the degradation principle,” the majority concluded that TMT alone would not cause substantial, adverse impacts and thus the board met its Article XI, section 1 trust responsibilities and would instead benefit Hawai‘i and Native Hawaiians.

Embracing their kuleana to mālama ‘āina, Kia‘i told a collective memory of decades of harm caused by already-existing and poorly-managed observatories on Maunakea. Kia‘i’s testimony and stories, when taken collectively, created an extensive list of the University’s mismanagement and the lasting injuries to Maunakea’s summit. Since the 1960s, the predominating story of Maunakea is one that elevates its potential for stargazing—as the best astronomical site in the world. Kānaka Maoli, however, have sought to uncover the deleterious impacts to Maunakea and Native Hawaiians caused by the astronomical “progress” that the Mauna became renowned for.

Kānaka Maoli detailed a number of egregious mistakes by the University since the first telescope’s establishment on Maunakea: allowing the development telescopes without permits and others “without permit conditions or controls to ensure implementation of management plans[;]” refusing to establish a limit to telescopes against the suggestions of the Mauna Kea Advisory Committee, many members of the public, state leaders, and Native Hawaiians, and prioritizing astronomical research over its obligation to protect the summit’s resources. Unlike the Mauna Kea I majority, Kia‘i stressed the scathing 1998 Auditor’s Report and the University’s blatant disregard of the audit’s criticisms and

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344 Id. (originally stating that “BLNR met its duties as trustee under Article XI, Section 1 public land trust”) (emphasis added)). Public land trust duties are codified under Article XII of the state’s constitution. HAW. CONST. art. XII, § 4.

345 See id.

346 Id. at 422, 431 P.3d at 795 (Wilson, J., dissenting) (“BLNR concludes that the degradation to the summit area has been so substantially adverse that the addition of TMT would have no substantial adverse effect.”).


348 See id. at 2; Plans Drawn for Majestic Mauna Kea, HAW. TRIB.-HERALD B-2 (Jan. 27, 1980).

349 Flores-Case Proposal, supra note 144, at 120–21.
recommendations intended to safeguard the Mauna’s natural, historical, and cultural resources.\textsuperscript{350}

Kia’i told a collective memory of injustice that sought also to hold the Department of Land and Natural Resources and its Board accountable for their complicity in Maunakea’s mismanagement.\textsuperscript{351} They drew from several critical reports from the Hawai’i State Auditor to demonstrate that even the state itself recognized the Department and Board’s failures as lessor to provide oversight of the University’s actions on the mountain.\textsuperscript{352} Kia’i cited that, according to a 1998 audit, DLNR “failed to define its relationship with the university, allowing the institution to oversee its own activities and not provide a mechanism to ensure compliance with lease and permit requirements.”\textsuperscript{353} Citing a later audit report from 2005, Kia’i underscored that this matter had “been previously brought to the attention of DLNR and its board for several decades.”\textsuperscript{354} According to the 2005 audit, which Kia’i quoted, “[t]he lack of oversight by the department allow[ed] the university and its sublessees unchecked discretion on the use of Mauna Kea and le[ft] cultural and natural resources at risk for further damage.”\textsuperscript{355}

Demonstrating the state’s readiness to undermine its public trust duties and protections for Native Hawaiians’ rights, Kia’i drew attention to a previous controversy with “issues . . . almost identical” to those in \textit{Mauna Kea II}.\textsuperscript{356} In 2004, despite the 1998 audit’s critical findings, the Department of Land and Natural Resources permitted the development of the NASA/Keck Outrigger Telescopes project near the summit without a comprehensive management plan.\textsuperscript{357} Native Hawaiians and other

\textsuperscript{350} Ward Testimony, \textit{supra} note 347; see Flores Testimony, \textit{supra} note 293, at 4; 1998 \textit{Audit}, \textit{supra} note 161, at 15.

\textsuperscript{351} See, e.g., Flores Testimony, \textit{supra} note 293; Ward Testimony, \textit{supra} note 347.

\textsuperscript{352} Flores Testimony, \textit{supra} note 293, at 4.

\textsuperscript{353} Ward Testimony, \textit{supra} note 347 (“The Legislative Auditor addressed the accumulation of impacts that have resulted in the findings of significant, adverse and substantial cumulative impacts to the natural and cultural resources of Mauna Kea in 1998: ‘(DLNR) has failed to define its relationship with the university, allowing the institution to oversee its own activities and not provide a mechanism to ensure compliance with lease and permit requirements.’”).

\textsuperscript{354} Flores Testimony, \textit{supra} note 293, at 4 (quoting \textit{STATE OF HAWAI’I AUDITOR, FOLLOW-UP AUDIT OF THE MANAGEMENT OF MAUNA KEA AND THE MAUNA KEA SCIENCE RESERVE, REPORT NO. 05-3 30 (Dec. 2005) [hereinafter 2005 \textit{AUDIT}]}).

\textsuperscript{355} \textit{Id}.

\textsuperscript{356} See Pisciotta Testimony, \textit{supra} note 295, at 3.

\textsuperscript{357} Ward Testimony, \textit{supra} note 347; \textit{Timeline of Mauna Kea Legal Actions Since 2011, KAHEA} (Sept. 10, 2016), http://kahea.org/issues/sacred-summits/timeline-of-events; see \textit{HAW. CODE R. § 13-5-39(b) (2011)} (“The department or board may require the preparation of a comprehensive management plan where it finds that further development may lead to significant natural, cultural, or ecological impacts within the conservation
conservation groups, including many of the Kia'i that challenged the TMT in *Mauna Kea I*, intervened to challenge the permit. Petitioners challenging the “Outrigger” project endeavored to hold the state accountable to its responsibility to preserve and protect the summit and to comply with its own administrative rules. NASA eventually pulled its funding for the project but only after its federal environmental impact statement, created as a result of the litigation, had acknowledged the adverse and significant impacts of three decades of astronomy on the cultural and natural resources of Maunakea.

Recent events, pertaining specifically to the TMT’s development, also reveal the state’s evasion of its public trust duties and its duty to affirmatively protect Native Hawaiians’ rights. For instance, prior to BLNR’s consent to sublease to TIO, the Board allowed TIO to take possession of the proposed site to grade, excavate, and bore into Maunakea’s summit. “Th[ose] activities, between August and October 2013, resulted in irreparable harm and damage to th[e] unique and pristine geological and cultural landscape” of Maunakea. Moreover, Kia’i emphasized the Board’s attempt to evade due process and expedite the TMT project, which came to a head in *Mauna Kea I*. By “putting the cart before district.”).

358 Pisciotta Testimony, *supra* note 295, at 3. The project “sought to construct four (4) to six (6) smaller ‘outrigger’ telescopes placed around the existing two (2) KECK observatories that sit on Kukahau’ula (the summit).” *Id.* After the Hearing Officer concluded that the project lacked the required BLNR-approved management plan, BLNR remanded the decision for re-review and the Hearing Officer changed his position. *Id.* On appeal to the state district court, Mauna Kea Anaina Hou and other petitioners were successful, and the court voided the CDUP issued for the KECK project. *Id.* Later, a federal Environmental Impact Assessment case, the Office of Hawaiian Affairs sued NASA on behalf of Mauna Kea Anaina Hou “for failing to complete a full EIS for the Outrigger Telescopes Project . . . After the Third Circuit Court vacated [the project’s] CDUA, NASA eventually pulled their funding for the project.” *Id.*

359 Ward Testimony, *supra* note 347, at 3. Judge Glenn Hara overturned the board’s decision to approve the development and directed the development of a management plan. *Id.* A result of Judge Hara’s decision and order, the University developed a Comprehensive Management Plan which was approved by the board in 2009. *Id.* at 4. Deborah Ward, in testimony to BLNR, criticized the 2009 Comprehensive Management Plan for its reliance on a 2000 Management Plan that “has neither been scrutinized nor approved by the BLNR, yet it is referenced as the determining document for future development.” *Id.* at 4; *see* 2009 MANAGEMENT PLAN, *supra* note 164, at 37, 3-8 (describing the 2000 Mauna Kea Science Reserve Master Plan and its approval by the University Board of Regents).


361 Flores-Case Proposal, *supra* note 144, at 69.

362 *Id.*

363 *See id.* at 145 (“BLNR has a pattern of executing actions that are comparable to ‘putting the cart before the horse[].’”).
the horse,” the Board revealed its willingness to forfeit its statutory and constitutional obligations to further the project.\footnote{See id.}

Since the first concerns regarding TMT’s permit application arose over a decade ago, Kia‘i urged the state to fulfill its statutory and constitutional obligations as outlined by \textit{Ka Pa‘akai} by rejecting the TMT’s CDUA.\footnote{Id. at 69.} Kia‘i also criticized the University and the TMT’s lack of meaningful consultation with Native Hawaiians regarding the project.\footnote{Id. at 83 (“It was not only the lack of quantitative lack of consultation with Native Hawaiian cultural practitioners, but also the types of questions that were asked and the kids of information that were provided in the asking of the questions.”).}

Rather than “trigger[ing] high levels of cultural conversations, consultation, engagement, [and] decisionmaking” among Native Hawaiians, TMT stakeholders, and the state,\footnote{Id. at 81.} the TMT’s proposal to build on sacred land was “rubber stamped” by the state.\footnote{Id. at 2 (“There’s an underlying perception that these types of projects are typically ‘rubber stamped’ and pushed through the existing State permitting process due to political pressures and/or business influences despite very apparent noncompliance with State laws.”).}

As Maoli practitioner and Kia‘i Kalani Flores explained, the lack of accountability for state decisionmakers thus leaves the burden on the public, specifically Kānaka Maoli, to adequately protect Maunakea.\footnote{Id.} By remaining “engaged in the process,” Flores and his ‘ohana (family) and others seek to fulfill their “civil responsibilities,” or kuleana, to protect Maunakea.\footnote{See id.}

The majority glossed over the the mismanagement of the MKSR and the irreplaceable natural and cultural resources located within the reserve.\footnote{See \textit{Mauna Kea II}, 143 Haw. 379, 385, 431 P.3d 752, 758 (2018).}

The opinion conceded that:

Construction of these observatories and roads has had significant cumulative adverse impacts on cultural, archaeological, and historic resources in the MKSR. The observatories have also had significant cumulative adverse impacts on gelogy, soils, and slope stability in the MSKR because they significantly modified the preexisting terrain, the tops of certain pu‘u were flattened to accommodate observatory foundations, and some materials were removed
from the pu‘u were pushed over their sides, creating steeper slopes more susceptible to disturbance.\textsuperscript{372}

The opinion then mentioned the 2000 MKSR Master Plan adopted by the University’s Board of Regents in response to “significant criticism raised” in the 1998 Audit of the Management of Mauna Kea and the Mauna Kea Science Reserve.\textsuperscript{373} The majority, however, did not describe the “significant criticism.”\textsuperscript{374} Nor did it include any of the criticisms outlined in the three audits that followed in 2005, 2014, and 2017.\textsuperscript{375} Instead, by avoiding all audits’ criticisms, the majority trivialized the already significant, adverse impacts that it admitted the TMT would exacerbate.\textsuperscript{376}

The majority did not include the first audit’s finding that the University’s focus on developing Maunakea to “enhance[] the university’s prestige and that of its astronomy program . . . overshadowed the university’s commitment to provide reasonable assurance of protection for the summit’s natural resources,” or that a subsequent audit found the same.\textsuperscript{377} The majority did not consider that, even when the University outlined plans for resource management and protection, “many of these plans were submitted late and were weakly implemented” due, in part, to “the university’s lack of commitment and the Department of Land and Natural Resources’ failure to enforce plans.”\textsuperscript{378} These failures “compounded the problem of inadequate environmental protection.”\textsuperscript{379} The 1998 Audit repeated that Maunakea’s stellar reputation as “a premier location for astronomical research” came at the expense of the University’s and DLNR’s neglect of the mountain’s natural resources, but the majority failed to include any information about these audits beyond the fact that one was published in 1998.\textsuperscript{380}

\textsuperscript{372} Id. at 385–86, 431 P.3d at 758–59.
\textsuperscript{373} Id. at 386, 431 P.3d at 759.
\textsuperscript{374} Id.
\textsuperscript{375} Id.
\textsuperscript{376} See id.
\textsuperscript{377} 1998 Audit, supra note 161, at 15; see 2005 Audit, supra note 355 (“The University of Hawai‘i has taken some positive steps toward strengthening the protection of Mauna Kea’s natural and cultural resources by implementing the 2000 Mauna Kea Science Reserve Master Plan. However, the university has not dealt with certain significant management issues, such as resolving jurisdictional issues with the Department of Land and Natural Resources and monitoring conservation district use permits. Such issues, if left unaddressed, increase the likelihood of harm to the science reserve’s vulnerable environment.”).
\textsuperscript{378} 1998 Audit, supra note 161, at 18.
\textsuperscript{379} Id.
\textsuperscript{380} See Mauna Kea II, 143 Haw. at 386, 431 P.3d at 759.
In its opinion, the majority referred to the 2000 Master Plan’s goals and the establishment of the Office of Mauna Kea Management (“OMKM”), which were created to help better effectuate those goals of protecting the right to exercise traditional cultural practices and preserving natural resources and landscapes.\(^{381}\) The majority mentioned the Master Plan’s goals but not how those goals were effectuated, if at all.\(^{382}\) And it did not provide any updated information regarding the state’s implementation of the 20-year old plan or the subsequent 2009 Comprehensive Management Plan.\(^{383}\)

In addition to emphasizing the Master Plan’s goals, the majority highlighted DLNR’s and TMT’s mitigation measures and plans that would “lessen the impacts of the TMT.”\(^{384}\) The court determined that, on balance, the TMT would be consistent with conservation and in furtherance of the state’s self-sufficiency.\(^{385}\) In the majority’s view, “[t]he TMT Project does not involve the irrevocable transfer of public land to a private party” and, as a condition of the TMT’s decommissioning plan, “the land [will one day] . . . be restored.”\(^{386}\)

As a text that constructs collective memory of injustice and inscribes it into law, the majority’s opinion perpetuates a narrative that ignores astronomy’s cumulative impacts on the summit while exaggerating its benefits, especially as they concern Native Hawaiians. By ignoring the state’s decades-long mismanagement of Maunakea, the majority shirked the legal obligation of the state to ensure protection of natural and cultural resources as required by Article XI, section 1 of the constitution.\(^{387}\) Rather than recognizing and taking into consideration the significant adverse impacts the previous observatories already caused, the majority ignored all that history, and instead looked only at the specific impacts the TMT itself would have in one specific area.\(^{388}\) It removed the TMT from the rest of the history of observatories on the summit and viewed the TMT’s impacts in isolation.\(^{389}\) Overall, the majority masked the state’s numerous

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\(^{381}\) Id.

\(^{382}\) Id.

\(^{383}\) See id.

\(^{384}\) Id. at 405, 431 P.3d at 778.

\(^{385}\) Id.

\(^{386}\) Id. at 401, 431 P.3d at 774 (“The TMT is to be decommissioned at the end of its anticipated 50 year useful life or at the end of the lease, whichever comes first, pursuant to the Decommissioning Plan.”).

\(^{387}\) See id.

\(^{388}\) See id.

\(^{389}\) See id.
shortcomings and promoted the TMT as a benefit to the state with few, if any, negative implications. 390

1. Justice Wilson challenged the majority’s indefensible use of the “degradation principle.”

The collective memory of injustice that Native Hawaiians sought to recast more closely parallels Justice Wilson’s dissent, which criticized the majority for its use of the “degradation principle.” 391 Similar to Kia‘i, Justice Wilson recognized the significance of including the entire history of damage to the summit. 392 Both Native Hawaiians and Justice Wilson sought to portray the full extent of astronomy’s impacts on Maunakea more accurately. 393 Justice Wilson’s dissent sheds light on the court’s own precedent and past events omitted or obscured by the majority’s analysis. 394 Throughout his opinion, Justice Wilson consistently criticized the majority’s reliance on “the degradation principle,” a principle contrary to Hawai‘i law. 395 He pointed to the state’s duties to Kaho‘olawe to illuminate the danger of the majority’s incorporation of the degradation principle into its legal analysis. 396

Whereas the majority proposed that there was no precedent for BLNR or the court to follow concerning management of public trust resources on Maunakea, Justice Wilson turned to the state’s management of Kaho‘olawe as an example of the state’s obligation toward protecting Hawai‘i’s lands and natural resources. 397 By bringing this context forward, Justice Wilson explained that the state’s approval of the TMT is inconsistent with its constitutional duties under Article XII, section 7 and Article XI, section 1. 398

Justice Wilson recalled that, like Maunakea, Kaho‘olawe had been “severely degraded.” 399 However severe the damage already inflicted upon a public trust resource, the state still maintained the “duty to preserve and rehabilitate in perpetuity.” 400 The interpretation put forth by the majority—

390 See id.
391 See id. at 421–34, 431 P.3d at 794–807 (Wilson, J., dissenting).
392 See id.
393 See id.
394 Id.
395 Id. at 421–22, 431 P.3d at 794–95.
396 Id. at 422 n.2, 431 P.3d at 795 n.2.
397 Id.
398 See id. at 422, 427–28, 431 P.3d at 795, 800–01.
399 Id. at 422 n.2, 431 P.3d at 795 n.2.
400 Id.
that “the passage of time and the degradation of natural resources can justify unacceptable environmental and cultural damage”—renders null the state’s duty to protect conservation district lands and other public lands and resources.\footnote{Id. at 422, 431 P.3d at 795.} According to Justice Wilson, the state’s duty is “potentially undermined or extinguished under the new degradation principle.”\footnote{Id. at 422 n.2, 431 P.3d at 795 n.2.} Letting the degradation principle inform its opinion, the majority:

[R]enders inconsequential the failure of the State to meet its constitutional duty to protect natural and cultural resources for future generations. It renders illusory the public trust duty enshrined in the Constitution of the State of Hawai‘i and heretofore in the decisions of this court to protect such resources. And its policy of condoning continued destruction of natural resources once the resource value has been substantially adversely impacted is contrary to accepted norms of the environmental rule of law.\footnote{Id. at 423, 431 P.3d at 796.}

The dissent further criticized the majority for its failure to recognize and consider the intent of the existing legal framework concerning public trust lands and resources within conservation districts—“to conserve, protect, and preserve the important natural resources of the state through appropriate management and use to promote their long-term sustainability and the public health, safety, and welfare.”\footnote{Id. at 433, 431 P.3d at 806; see HAW. CONST. art. XI, §§ 1, 9; HAW. CONST. art. XII, § 7; HAW. REV. STAT. § 183C-1 (1978); HAW. CODE R. § 13-5-30(c)(4) (2011).} In its analysis and application of the law, the majority also ignored the Constitutional Convention delegates’ intent that the 1978 amendments expressly set forth the state’s obligation to conserve and protect all public lands and natural resources, including Native Hawaiians’ traditional and customary rights.\footnote{See Mauna Kea II, 143 Haw. at 411–12, 413 P.3d at 784–85 (Pollack, J., concurring). Justice Richard W. Pollack, however, in his concurring opinion, did consider the 1978 Constitutional Convention and delegates’ express intent regarding Article XI, section 1. Id. (“[T]he principle that public land is a natural resource within the meaning of article XI, section 1 has long been established under our law.”).} Based on the foregoing, Justice Wilson warned that as a result of the majority’s flawed analysis, “one of the most sacred resources of the Hawaiian culture loses its protection because it had previously undergone substantial adverse impact from prior development of telescopes.”\footnote{See id. at 422, 431 P.3d at 795 (Wilson, J., dissenting).}
2. The majority’s narrow collective memory relieved the state of its constitutionally mandated duties.

Although Justice Wilson’s dissenting opinion did not refute the entire flawed history embraced by the majority, his opinion, focused on the degradation principle, purposefully portrayed a fuller picture of Maunakea’s past and criticized the majority for its failure to fully weigh the TMT’s implications.407 On the other hand, by failing to acknowledge the University’s and BLNR’s grave failures, thereby neglecting to hold the state accountable, the majority opinion resulted in the curtailment, or dilution, of Native Hawaiians’ rights despite their being guaranteed by the constitution and statutes.408

By the majority’s logic, the cumulative past is irrelevant. Thus, although the astronomical development on Maunakea has “resulted in substantial, significant and adverse impacts,” the court concluded TMT was still permissible because even if the TMT would exacerbate the already substantial, significant, and adverse impacts on the summit, the impacts of the TMT alone would only be “incremental” in comparison to the overall damage already done.409 Following this logic, the majority held that the TMT would not adversely impact cultural resources.410 If applied to future cases, the majority’s reasoning allows for the state to ignore or dismiss its constitutional duties to Native Hawaiians and the general public if public trust and conservation lands are deemed to have already suffered enough “substantial, significant and adverse impacts[].”411

In addition to artificially separating the TMT’s impacts from the history of all the existing observatories, the majority also failed to acknowledge the significance of the University’s history of mismanagement of the Mauna and its resources.412 In essence, the court ignored the state’s entire past of mismanagement mistakes.413 Separating the present (TMT) from the past (thirteen existing telescopes and the University’s past behavior) effectively deemed the cumulative past irrelevant in determining

407 Id. at 421–34, 431 P.3d at 794–97.
408 See id. at 386, 395–98, 400–02, 431 P.3d at 759, 768–71, 773–75.
409 The court, citing Kilakila III, explains that “BLNR does not have license to endlessly approve permits for construction in conservation districts, based purely on the rationale that every additional facility is purely incremental.” Id. at 403–04, 431 P.3d at 776–77. But this rationale, which the court appears to refute is exactly the logic it deploys to justify permitting the TMT. See id.
410 Id. at 404, 431 P.3d at 777.
411 See id. at 403, 431 P.3d at 776.
412 See id. at 386, 395–98, 400–02, 431 P.3d at 759, 768–71, 773–75.
413 See id.
what justice entails for Native Hawaiians and Maunakea.\textsuperscript{414} It concealed the genuine justice concerns shared by Kānaka Maoli and allowed for the majority to cast TMT as purely a benefit to the state and Native Hawaiians.\textsuperscript{415}

Justice Wilson’s critical dissent brought into focus the entire impact of the area and considered the actual and potential implications of the observatories, including TMT, on Maunakea.\textsuperscript{416} He began to tell a story more in line with Native Hawaiians’ collective memory of injustice by comparing the state’s history with and duty to Maunakea to those of Kaho‘olawe.\textsuperscript{417} Justice Wilson’s consideration of the TMT’s impacts to the entire summit, as well as his recognition of the University’s mismanagement and lack of accountability, revealed, in part, the injustice that Native Hawaiians remember and that the majority’s opinion masks.\textsuperscript{418}

Opposite the majority, the dissent’s more complete account of history and its criticism of the “degradation principle” attempted to reinforce and uphold the state’s constitutional duties under Hawai‘i law.\textsuperscript{419}

3. The majority ignored traditions and customs exercised everywhere but within the exact footprint of the TMT project.

Chief Justice Richardson’s seminal decisions upheld that the state’s “resources should be held for the benefit of the public[.]”\textsuperscript{420} In \textit{Mauna Kea II}, however, the majority abandoned CJ Richardson’s legacy of protections for Native Hawaiian traditional and customary rights that were based on his pursuit of “justice for Hawai‘i’s native people and, indeed, for all people in our homeland.”\textsuperscript{421}

The court’s selective approach to history that undermined Native Hawaiians’ claim to Maunakea is captured by a single sentence that contends: “various Native Hawaiian traditional and customary practices are derived from these beliefs, which have also led to related contemporary cultural practices.”\textsuperscript{422} The court’s separation of “related contemporary” cultural practices from “traditional and customary” ones created a dichotomy that never existed and does not accurately reflect Native

\begin{itemize}
  \item \textsuperscript{414} See id.
  \item \textsuperscript{415} See id.
  \item \textsuperscript{416} \textit{Id.} at 422, 431 P.3d at 795 (Wilson, J., dissenting).
  \item \textsuperscript{417} \textit{Id.}
  \item \textsuperscript{418} See id.
  \item \textsuperscript{419} \textit{Id.}
  \item \textsuperscript{420} MacKenzie, \textit{Ka Lama Kū, supra} note 228, at 6.
  \item \textsuperscript{421} See id. at 15; \textit{Mauna Kea II}, 143 Haw. at 395–98, 431 P.3d at 768–71.
  \item \textsuperscript{422} See \textit{Mauna Kea II}, 143 Haw. at 385, 431 P.3d at 758.
\end{itemize}
Hawaiian cultural practices. Moreover, this superficial distinction between traditional and contemporary stands “contrary to legal understandings that Hawaiian cultural practices must evolve in contemporary times to support a living culture.”

The court’s framing of cultural practices lends to the narrative, “a tired colonial trope, representing Indigenous Peoples as mere vestiges of a quickly fading and increasingly irrelevant past.” In essence, the court legitimizes the colonial narratives that cast Native Hawaiian culture as antithetical to progress and modernity. Moreover, the court’s mischaracterization of Native Hawaiian culture sets up the framework for the rest of its analysis that, in effect, invalidates Native Hawaiians cultural practices on Maunakea.

Just as the court majority narrowed the scope of time in its evaluation of “history” and TMT’s potential impacts, it similarly narrowed the scope of physical space evaluated such that the TMT would appear not to affect Native Hawaiian traditional and customary rights on Maunakea. This narrowed scope further justified the majority’s conclusion the state did not violate its obligations under Article XI, section 1, Article XII, section 7, and HRS section 1-1 when it approved the TMT’s CDUP. In doing so, the majority’s conclusion ignored the Native Hawaiian principles that are the very foundation of Hawai‘i’s unique legal system that this state boasts. Further, Mauna Kea II departed from longstanding precedent and curtails the specific protections for Native Hawaiians’ rights incorporated into state law.

Departing from Chief Justice Richardson’s precedent and legal legacy, the Mauna Kea II majority constricted its focus to look only at the

423 See id.; KIYUNA, supra note 156, at 7.
424 KIYUNA, supra note 156, at 7 (“Although Hawai‘i case law establishes that practitioners must demonstrate that a particular practice existed prior to 1892, this does not mean that traditional and customary rights are frozen in time and cannot take on new forms. Indeed, in the Declaration on the Rights of Indigenous Peoples, the United Nations affirmed that Native peoples retain the right to ‘practice and revitalize their cultural traditions and customs[,] . . . includ[ing] the right to maintain, protect, and develop the past, present, and future manifestations of their cultures.’”).
426 See generally Rice v. Cayetano, 528 U.S. 495 (2000); Burns, supra note 335; Avis Kuuipoleialoha Poai, Tales from the Dark Side of the Archives: Making History in Hawai‘i without Hawaiians, 39 U. HAW. L. REV. 537 (2017) (analyzing “the histories that have been told about Native Hawaiians by attorneys, judges, and scholars”).
427 See Mauna Kea II, 143 Haw. at 385, 431 P.3d at 758.
428 Id. at 395–98, 431 P.3d at 768–71.
429 See MacKenzie, Ka Lama Kū, supra note 228, at 6.
specific area that TMT would occupy. By narrowing its scope and considering the proposed observatory site in isolation, the majority constricted the Ka Pa‘akai analysis to conclude that there was no evidence that the site was used to store or bury artifacts, that ahu or lele (sacrificial altars or stands) existed, or that mele or hula were performed there. This constricted focus on the specific site proposed for the TMT Observatory conveniently narrowed the scope so much so that it excluded Native Hawaiians—along with their well-documented cultural traditions and customs—from the analysis. Doing such contradicted Kalipi and subsequent precedents that consistently upheld Native Hawaiians’ rights.

The majority cited the evidence—testimony, research studies, plans, and impact assessments—provided by BLNR to examine the extent of cultural practices that took place on Maunakea. The majority acknowledged the cultural practices of Native Hawaiians on the Mauna’s summit by summarizing some of BLNR’s findings that:

Native Hawaiian cultural practitioners on Mauna Kea conduct their practices at the summit of Mauna Kea (Pu‘u Wēkiu), Lake Waiau, Pu‘u Līlīnoe, or Kūkahau‘ula. Cultural practices at Mauna Kea include solstice and equinox observations on Pu‘u Wēkiu, burial blessings, depositing of piko (umbilical cord) near Lake Waiau as well as collection of its water for use in healing and ritual practices, the giving of offerings and prayers at the ahu lele (sacrificial altar or stand), behind the visitor center adjacent to Hale Pōhaku, and


432 HAWAIIAN DICTIONARY, supra note 1, at 8, 201.

433 Mauna Kea II, 143 Haw. at 396, 431 P.3d at 769.

434 See id.

435 See Ka Pa‘akai, 94 Haw. at 47–49, 7 P.3d at 1084–86; Nā Wai ʻEhā, 128 Haw. at 248–49, 287 P.3d at 149–50; Wai‘ola, 103 Haw. at 424, 426, 83 P.3d at 687, 689; Mauna Kea II, 143 Haw. at 396, 431 P.3d at 769; see also Native Hawaiian Amici Brief, supra note 431, at 8–12.

monitoring or observing the adze quarry, or observing stars, constellations, and the heavens.\textsuperscript{437}

Despite acknowledging the many Native Hawaiian practices that take place atop Maunakea, the majority quickly turned around to conclude that none of those practices were relevant in assessing the TMT’s impact on cultural resources or traditional and customary practices.\textsuperscript{438}

The majority, in accord with BLNR’s assertions, narrowed its analysis to what it called the “relevant area,” which included only the proposed TMT Observatory site area and the Access Way.\textsuperscript{439} Thus, the court concluded that there were no Native Hawaiian cultural practices, artifacts, or structures found in the “relevant area.”\textsuperscript{440} The majority noted that there were ahu erected in the vicinity of the project but wrote those off as irrelevant because they were not within the narrowly construed “relevant area,” as well.\textsuperscript{441}

With little explanation, the majority further concluded that the two ahu constructed on the Access Way by Kia’i in 2015 to protect Maunakea “did not constitute a traditional and customary right or practice.”\textsuperscript{442} The majority did not discuss whether Native Hawaiians were consulted to reach this conclusion, or whether this practice—of building ahu to protect sacred land—was a tradition or custom.\textsuperscript{443} The majority also did not fully consider or address the cultural practice of refraining from going to Maunakea’s summit in wao akua.\textsuperscript{444} The majority ignored these factors, and instead constructed a narrative that the apparent absence of Kānaka from the “relevant area” justified denying Native Hawaiians’ claims to Maunakea and permitting continued development on Maunakea.\textsuperscript{445}

Even where the majority took a broader approach and recognized that Native Hawaiian cultural practices did indeed take place on Maunakea, the court emphasized that those practices have “coexisted” alongside the astronomy facilities at the summit.\textsuperscript{446} The majority did not include that, for decades preceding TMT’s conception, Kānaka and others urged to halt any

\textsuperscript{437} Id. at 396, 431 P.3d at 769.
\textsuperscript{438} Id.
\textsuperscript{439} Id.
\textsuperscript{440} Id.
\textsuperscript{441} Id.
\textsuperscript{442} Id.
\textsuperscript{443} Id. at 395–98, 431 P.3d at 768–71.
\textsuperscript{444} See id.
\textsuperscript{445} See id.
\textsuperscript{446} Id. at 397, 431 P.3d at 770.
further development of telescopes on Maunakea. Nor did it include Native Hawaiians’ early concerns that the mountain would become “overcrowded” by outsiders who do not share the same concerns regarding protection of the natural and cultural resources or “preservation of the valuable history of the mountain.” The majority also omitted the many state officials’ statements admitting the University’s and state’s failures on Maunakea, including Governor Ige’s concession that “[w]hether you see it from a cultural perspective or a natural resource perspective, we [state officials] have not done right by a very special place.”

On the contrary, the majority assumed that since previous observatories had “co-existed” alongside “Native Hawaiian uses,” the TMT would not “curtail or restrict” any Native Hawaiian practices. The majority conveniently forgot Native Hawaiians’ vehement opposition to development on Maunakea at the turn of the 21st century, or that astronomers had previously resigned from or declined work at observatories on Maunakea in response to the mistreatment of Indigenous resources and issues by other astronomers. These “forgotten” stories refute the majority’s flawed memory of Native Hawaiians coexisting with and consenting to the already-existing facilities on the mountain.

With the majority’s inscription of its flawed narrative into law, the court constructed and legitimized a “memory” of Maunakea devoid of Native Hawaiians. The opinion adds to the Western-produced historical accounts and narratives that minimize Native Hawaiians’ presence in Hawai’i’s history. The erasure of Native Hawaiians and their cultural practices from Maunakea supports the state’s and court’s presumption that no harm would be done by the TMT. “Limiting the analysis of Native

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447 See id. at 385, 431 P.3d at 758. In 1976, members of the local community and state and city officials recommended that the BLNR cap the number of telescopes on the mountain to those six already existing facilities. Letter from Managing Director John Keppeler, County of Hawai‘i, to Chairman Christopher Cobb, Bd. Land Nat. Res. (Sept. 16, 1976).

448 Bean & Duquette, supra note 192.


450 *Mauna Kea II*, 143 Haw. at 402, 431 P.3d at 775.


452 See Flores Testimony, *supra* note 293; Rios Testimony, *supra* note 293; Pisciotta Testimony, *supra* note 295.

453 See generally *Mauna Kea II*, 143 Haw. 379, 431 P.3d 752.

454 See generally *id*.

455 Native Hawaiian Amici Brief, *supra* note 431, at 12.
Hawaiian rights only to the TMT site” in the way the majority did “emasculates the law and not only deprives these rights fundamental justice, but essentially erases them from recognition.”

In its narrow analysis of traditional and customary rights on Maunakea, the majority perpetuated the narrative—often proffered by those who take issue with Kānaka Maoli’s “recent” mobilization to protect Maunakea—that traditional and customary practices have “co-existed” on the summit alongside astronomy for decades. In an act of erasure of Native Hawaiians, the *Mauna Kea II* majority concluded that since previous observatories had been “compatible” and “co-existed” with Native Hawaiian practices, so would the TMT.

Native Hawaiians, publicly and through formal testimony, have sought to counter these narratives that falsely assume the compatibility of astronomical structures on sacred land and the ability for such developments to co-exist with Native Hawaiian culture. Rather than remembering past observatories as compatible with the land and land-based cultural practices, Kia’i’s stories reminded us that Kānaka Maoli consented neither to the existing observatories nor the TMT, nor did any of the telescope developers meaningfully consult with Native Hawaiians or involve Kānaka in the processes of developing these projects.

Native Hawaiians seeking to protect Maunakea criticized that these developments never “co-existed” but have actually threatened cultural practices. And petitioners urged that the need for the *Mauna Kea II* case only existed because of the state’s unwillingness to listen to and recognize petitioners’ claims that observatories never co-existed with Native

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456 *Id.*

457 Kealoha Pisciotta testified that the movement to protect Maunakea gained traction in the past decade as a result of “the perfect storm.” Pisciotta Testimony, supra note 295, at 4. After decades of legal challenges, public hearings, and heartfelt testimonies, Kia’i used media to disseminate their message and start reshaping the public consciousness across Hawai’i. *Id.*

458 *Mauna Kea II*, 143 Haw. at 302, 431 P.3d at 775.

459 See *id.* (finding that the TMT met the permit requirement under HAR § 13-5-24(c)(5) that “[t]he proposed land use . . . shall be compatible with the locality and surrounding areas”).

460 See *id.* at 302–03, 431 P.3d at 775–76.


462 *Id.*

463 *Id.* at 1–4; Ward Testimony, supra note 347, at 14, 17–18.
Hawaiian traditions and customs on Maunakea. Kealoha Pisciotta lamented, “Native Hawaiians have watched the University repeatedly erect telescopes on Mauna Kea over and against their protests and patient explanations of the site’s sacred importance.” Others also recall their efforts over the past decades to “remed[y] the habitat loss, the repeated pollution accidents, the introduction of multiple alien predators and weeds, the permanent and irreversible alteration of the geologic terrain.” Time and again, however, Kia‘i’s pleas have fallen on the state’s deaf ears.

In its unprecedented approach, the majority limited the scope of its analysis to the TMT’s specific footprint and curtailed protections for Native Hawaiian traditional and customary rights. The court’s narrative not only shapes how we remember history but also influences how history will be evaluated under the law, and how the law will apply to future cases. The court’s formalist approach ignored the broader context of this issue as well as the real-life impacts the court’s decision would inflict. This formalist approach separates legal rules from their political and social implications and is particularly easy for courts to employ. By stripping away the surrounding context, courts—and other decisionmakers—can readily replicate unjust laws as well as the stories (i.e., collective memories), flawed or not, that originally justified them. The history transcribed by the court and the majority’s conclusion in Mauna Kea II illuminate the importance of collective memory in struggles for justice. The controversy over Maunakea is a testament to the court’s power and readiness to “filter and twist, recall and forget ‘information’ in reframing shameful past acts (thereby lessening responsibility)” to also define and enact “justice” in a way that does not actually redress Native Hawaiians’ rights claims.

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464 See Ward Testimony, supra note 347, at 5.
466 Ward Testimony, supra note 347, at 5.
467 See id.
469 Legal formalism is “a theory that legal rules stand separate from other social and political institutions. According to this theory, once lawmakers produce rules, judges apply them to the facts of a case without regard to social interests and public policy. In this respect, legal formalism differs from legal realism.” Legal Formalism, LEGAL INFO. INST., https://www.law.cornell.edu/wex/legal_formalism.
470 See id.
471 See Yamamoto et al., supra note 94, at 21; Hom & Yamamoto, supra note 5, at 1764–65.
472 See Mauna Kea II, 143 Haw. at 302–03, 431 P.3d at 775–76.
473 See Hom & Yamamoto, supra note 5, at 1758.
The state’s intentional exclusion of the surrounding area ignored a history of Native Hawaiian customs and traditions involving Maunakea. Consequently, by looking only at the “application area” and holding that Native Hawaiian practitioners did not meet their burden to show the summit was essential for traditional and customary practices, the majority subverted the Ka Pa‘akai analysis and weakened protections for Native Hawaiians traditional and customary rights. This approach is contrary to the court’s analysis in Ka Pa‘akai, Na Wai ‘Ehā, and Wai‘ola, all three of which affirmed the state’s affirmative duty to adequately consider and protect Native Hawaiians rights.

The majority’s legal conclusions derived, in large part, from the history the court itself constructed. Thus, by putting blinders on to avoid the surrounding summit area, the court relieved the state of its public trust duties, including the obligation to protect traditional and customary rights. The court’s holding that BLNR met its constitutional duties—despite the actual and potential implications of its decision (i.e., ignoring relevant cultural practices; limiting the scope of analysis in a way that favors development; irreversible damage to the summit environment and natural resources)—absolved the state of its duty all together.

The majority abandoned the well-documented intent of Constitutional Convention delegates who sought to protect the “integral part[s] of ancient Hawaiian civilization” that are “retained by its descendants.” And opposite its own precedent, the court “narrowly construed” and “ignored” Native Hawaiians rights enshrined in Article XII, section 7. The court’s problematic framing of present-day cultural

474 See Mauna Kea II, 143 Haw. at 302–03, 431 P.3d at 775–76.
475 Hearing Officer Amano Proposal, supra note 273, at 242 COL 346. Misinterpreting the state’s affirmative duty to protect traditional and customary rights, Hearing Officer Amano incorrectly concluded that “Petitioners and Opposing Intervenors have not established by reliable, probative, substantial and credible evidence that their practices—whether characterized as contemporary, customary or traditional—will be adversely affected by the TMT Project.” Id.
476 Mauna Kea II, 143 Haw. at 322, 431 P.3d at 795 (Wilson, J., dissenting).
478 See generally Mauna Kea II, 143 Haw. 379, 431 P.3d 752.
479 See id. at 395–98, 431 P.3d at 768–71.
480 See id.
482 See id.; see also Pele Def. Fund v. Paty, 73 Haw. 578, 619–20, 837 P.2d 1247,
practices as separate from those practiced by earlier Kānaka distorted the way traditions and customs have been perpetuated and passed down between generations of Kānaka Maoli.\textsuperscript{483} It presumed that traditional practices are frozen in the past, not “retained” in the present and for the future, and that the culture practiced by Native Hawaiians today is not legitimate and does warrant protection.\textsuperscript{484}

Further, the court’s analysis drastically departs from principles that have guided it in evaluating these fundamental protections. As Native Hawaiians argue, and as previous cases have upheld, Native Hawaiian traditions and customs that are practiced have adapted, and must continue to adapt, to changing times.\textsuperscript{485} For instance, in \textit{Palama v. Sheehan} (1968), the Richardson court upheld the exercise of rights along an ancient trail by vehicle rather than restricting use to horses and pedestrians as it was used around 1850.\textsuperscript{486} The Hawai‘i Supreme Court also held in \textit{PASH} that “notwithstanding arguable abandonment of a particular site, . . . traditional and customary practices remain[,] intact[.].”\textsuperscript{487} Therefore, even if there was a gap in time between exercising these rights on Maunakea—as a result of “stresses . . . in the form of dispossession, displacement, legal and moral prohibition and more”\textsuperscript{488}—“continuous exercise is not required[,]”\textsuperscript{489} Rather than interpreting these adaptations as traditions and customs that have been “retained”\textsuperscript{490} and “evolved over time[,]”\textsuperscript{491} the majority’s construing these adaptations merely as “contemporary Native Hawaiian practices that derive from . . . traditional and customary rights” threatens extinguishing them.\textsuperscript{492} “Affirming the continuation of traditional and

\textsuperscript{483} See KIYUNA, supra note 156, at 2–5.

\textsuperscript{484} Id.


\textsuperscript{486} See generally id.; see also Forman & Serrano, supra note 216, at 817 (discussing \textit{Palama}); Native Hawaiian Amici Brief, supra note 431, at 7.

\textsuperscript{487} \textit{PASH}, 79 Haw. 425, 450, 903 P.2d 1246, 1271 (1995). \textit{PASH} qualifies its holding by including that “this right is potentially subject to regulation in the public interest.” Id.

\textsuperscript{488} Native Hawaiian Amici Brief, supra note 431, at 8.

\textsuperscript{489} \textit{PASH}, 79 Haw. at 450, 903 P.2d at 1271.


\textsuperscript{491} Native Hawaiian Amici Brief, supra note 431, at 8.

\textsuperscript{492} Id.; see Mauna Kea II, 143 Haw. 379, 385, 431 P.3d 752, 758 (2018).
cultural practice is useless if there are no actual protections provided for practitioners to continue their practices.⁴⁹³

Taking everything into account, the court, in its analysis of traditional and customary rights exercised on Maunakea’s summit, reinscribed a colonial history into law and deployed those colonial narratives to justify ignoring its own precedent and changing the law itself to promote the development of the TMT on sacred land.⁴⁹⁴

C. The majority failed to acknowledge the TMT controversy within the context of colonization and its lasting impacts for Kānaka Maoli.

Kānaka Maoli relate the injustices of Maunakea back to a pattern of colonial “projects” developed in Hawai‘i. In contrast to the court’s extremely limited scope in evaluating “history” and Native Hawaiians’ rights to Maunakea, Kānaka—looking at the broader implications of colonization—understand this controversy as an episode in an ongoing series of injustices against Native Hawaiians. Kānaka Maoli’s collective memory of injustice of astronomy on Maunakea is therefore not just about Maunakea.⁴⁹⁵ The “ongoing violation of Hawaiians’ religious and cultural attachments to Mauna Kea is linked to colonial, systemic deprivation of self-determination that is materially detrimental to Native Hawaiian[s].”⁴⁹⁶

Kia‘i argued that the collective memory of Maunakea cannot be separated from many of the other past harms Native Hawaiians suffered as a result of colonization.⁴⁹⁷ Native Hawaiian musician and scholar Dr. Jonathon Osorio explained the state’s role in perpetuating the legacy of colonization in Hawai‘i:

Since the takeover of our country, we Kānaka Maoli have witnessed the steady and lately, spectacular erosion of our presence on the land that only [four] generations ago was exclusively ours. But of far greater concern, is that neither government nor public interests today effectively regulate the use of our lands in any meaningful way. To put this baldly, the lands of Hawai‘i have been offered up for speculation and to fuel expensive capital projects and neither environmental cautions [nor] community concerns [.] have

⁴⁹³ Pisciotta Testimony, supra note 295, at 11.
⁴⁹⁴ See generally Mauna Kea II, 143 Haw. 379, 431 P.3d 752.
⁴⁹⁵ See Mauna Kea Anaina Hou Proposal, supra note 317, at 100 COL 1095.
⁴⁹⁶ Id.
⁴⁹⁷ See, e.g., Ward Testimony, supra note 347, at 18; Written Direct Testimony of Jonathan K. Kamakawiwo‘ole Osorio 2 (Oct. 10, 2016), available at https://dlnr.hawaii.gov/mk/files/2016/10/B.07a-Osorio-WDT.pdf [hereinafter Osorio Testimony]. Dr. Osorio is also the Dean of Hawai‘inui‘akua School of Hawaiian Knowledge at the University of Hawai‘i Mānoa.
been able to balance the political trend away from the knee-
jerks of development . . . . Public resistance to the
construction of the [TMT] on Mauna Kea must be
understood within all of these historical contexts.\footnote{498}

Sharing a sentiment felt by many Kānaka Maoli, hula master and Maoli
educator Dr. Pualani Kanakaʻole Kanahele bemoaned the continued
desecration of Maoli lands: “For the economy, we have given up all of our
sacred spaces.”\footnote{499}

Thus, for Kānaka Maoli, challenging the TMT also means having to
challenge that larger narrative concerning colonization, which, as
demonstrated by \textit{Mauna Kea II}, is often excluded by decisionmakers in
considering present rights claims. Regardless, Native Hawaiians challenged
the “racialized images inscribed in and reproduced though law that continue
to foster systemic, present-day exclusion” of Kānaka Maoli in matters
concerning Maunakea and other Maoli lands.\footnote{500}

\section*{VI. \textit{Kū Kiaʻi Mauna}: Kānaka Maoli’s Effort to Protect Maunakea
And Reshape Predominating Narratives}

In their effort to bolster their familial, spiritual, and legal claims to
Maunakea, Kiaʻi testified before BLNR, the court, and the public to reshape
the narrative that has paved the way for the approval of the TMT. Set against
a backdrop of unresolved issues dating back to the beginnings of
colonization, this battle—as well as “future disputes over land and
development in Hawaiʻi”—is happening “within a context of growing
resentment of the state’s failure to protect vulnerable communities and
willingness to ignore inconvenient regulations in its rush to approve sizable
capital projects,”\footnote{501} as well as Native Hawaiians’ “increasing impatience
with the state’s management of our [ancestral] lands.”\footnote{502}

With this controversy hinging on which collective memory prevails,
\textit{Mauna Kea II} is actually a conflict “between people who see the history and
future of Hawaiʻi very differently.”\footnote{503} As Kānaka Maoli see it, the collective
memory of Maunakea and Native Hawaiians will determine how Hawaiʻi
reconciles “a ruptured past, contentious present, and very uncertain

\footnotesize{\begin{itemize}
\item \footnote{498}{Osorio Testimony, \textit{supra} note 497, at 2.}
\item \footnote{499}{Ward Testimony, \textit{supra} note 347, at 18.}
\item \footnote{500}{See Serrano, \textit{supra} note 115, at 425.}
\item \footnote{501}{Osorio Testimony, \textit{supra} note 498, at 3.}
\item \footnote{502}{\textit{Id.}}
\item \footnote{503}{\textit{Id.} at 1.}
\end{itemize}}
future.”

Although Kānaka Maoli hoped the court might serve as a site of “cultural transformation” in this battle, the Mauna Kea II majority only reaffirmed colonizers’ narratives and the status quo. By purposefully narrowing the scope of its investigation of history, the court and “the legal process reinforce[d] inequality [and the] power imbalance” between Kānaka Maoli and the private interests that the state favored. Equally important, the court shared a public message that shapes larger societal understandings and policy actions over time.

The court’s intentional framing of Maunakea’s narrative—justifying increased development on an already significantly, substantially, and adversely impacted sacred space and arbitrary limitations on Native Hawaiians’ traditional and customary rights—poses grave implications. The over-development of the kapu area would result in detrimental changes to the “environmental forms” of akua (i.e., the resources and elements on Maunakea), negatively affecting the landscape and changing the summit’s climate. With the deep connection Kānaka Maoli have with the mountain and its resources and elements that exist there, the “irreparable harm caused by the TMT Project will include . . . [p]sychological harms caused by the desecration of a [sacred] site.” Such harms, to “the feeling associated with sites and the cultural practices associated . . . cannot be mitigated.”

On a spiritual level, because Kānaka Maoli know Maunakea is an ancestor that must be cared for, the TMT would sever “connection[s] . . . between the ancestral and human realm. Information shared between us, and knowledge passed down ancestrally would be lost. Interaction between the mountain and the human would be diminished like a loss of a family member, and the death of a way of life.” Further desecration of the summit by the TMT “harm[s Native Hawaiians’] ability to transmit knowledge about who they are in relation to this place to future generations.” Thus, for present and future Kānaka, the TMT is a desecration to Maunakea that would “harm the ability of kānaka to be fully

\[504\] Id.


\[506\] Yamamoto et al., supra note 94, at 17–18.

\[507\] See id. at 33–34 n. 53–54.

\[508\] See Case Testimony, supra note 462, at 5.

\[509\] Flores-Case Proposal, supra note 144, at 104–05 FOF 750.

\[510\] Id.

\[511\] Case Testimony, supra note 462, at 6; Flores-Case Proposal, supra note 144, at 103 FOF 740.

\[512\] Flores-Case Proposal, supra note 144, at 107 FOF 765.
As explained by Maoli scholar and educator Dr. Noelani Goodyear-Ka‘ōpua,

Aloha ‘āina has been a practice of Kanaka Maoli survivance for generations, and it is based on the understanding that lands, including Mauna a Wākea, are familial kin . . . Kānaka Maoli are not just related to the land but are indeed part of it. The health of kānaka and their cultural identities is directly tied to the health of the land and is thus harmed when the ‘āina is harmed.

The TMT’s “irreparable harms” will extend to and impact future generations of Kānaka by “inhibit[ing] and harm[ing]” the “kuleana relationships between Kānaka Maoli and this Mauna” that Native Hawaiian practitioners and educators have been “trying to preserve and perpetuate[.]”

But the battle over Maunakea, and its collective memory, continues. Although their memory did not prevail in the Hawai‘i Supreme Court, the battle over Maunakea—and its collective memory—continued outside the state’s formal adjudicative processes. Native Hawaiians have since looked beyond the court for ways to “publicize counter narratives that challenge dominant understandings, or master narratives” about Native Hawaiians and their justice claims. While the majority opinion might be considered the “prevailing” collective memory, Kānaka Maoli’s most recent stand to protect Maunakea challenges that narrative in the public domain. To support their claims to Maunakea, Kānaka Maoli challenged the TMT at demonstrations across the Hawaiian archipelago and through a media campaign that reached international audiences and challenged mainstream narratives of Native Hawaiians.

A movement in the making, over 300 Kānaka Maoli—from Hawai‘i Island and beyond—mobilized in the early hours of July 17, 2019 to block the Mauna Kea Access Road and halt the TMT’s planned start of construction. Some Kānaka Maoli chained themselves across

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513 Id.
514 Id.
515 Id.
516 See Yamamoto et al., supra note 94, at 21–25.
517 See id.
518 See infra notes 534–548 and accompanying text.
cattleguards, while others stood arm in arm.520 Kūpuna comprised the frontline of the blockade.521 These Kia‘i committed to peacefully resist the state-sanctioned desecration while remaining in kapu aloha, a discipline “rooted in dignity and humanity” and a code of conduct that allow Kānaka Maoli, by acting only with love and kindness, to honor the sanctity of Mauna a Wākea.522

Denouncing Native Hawaiians’ actions as “lawlessness,” law enforcement, equipped with riot gear, confronted Kia‘i and arrested thirty-three Kūpuna, raising tensions among the broader community.523 That same day, Governor Ige declared a statewide proclamation of emergency “to ensure the execution of law [and] suppress or prevent lawless violence.”524 Highlighting the ongoing battle over collective memory of injustice, Governor Ige intimated that Kia‘i, the Native people of this land, were “illegally occupying” space on the Mauna.525 The court’s decision—based on the selective history it inscribed—is, thus, also a “public message” that TMT supporters, including Governor Ige, can rely on to further deny justice to Native Hawaiians while simultaneously labelling them vagrants for violating the “rule of law.”526

520 Id.
521 Id.
522 Kapu Aloha: A Guiding, Transformational, and Liberating Force, PUUHONUA PUUHULUHULU (Sept. 23, 2019), https://www.youtube.com/watch?v=AX7kTOHNjYU. Andre Perez and Pualani Case describe kapu aloha as sacred conduct required of the sacred space they seek to protect. Id. Kapu aloha demands and interconnects honor, respect, and reverence not just to other people but to the entire surrounding environment. Id. On the mountain, it is used as a philosophy of non-violent direct action. Id. With kapu aloha as a guiding principle, Kia‘i “engage in civil resistance [while] demonstrating aloha for the opposition, for each other, and for their land.” Id.

523 Brestovansky, supra note 521. “To see some of our most respected kupuna, advocates and ‘ohana get arrested for voicing the same concerns our community has expressed for decades over the state’s mismanagement of Maunakea brings a kaumaha (heaviness) to our hearts that is unbearable.” OHA Statement on Today’s Arrest of Kūpuna and Others on Maunakea, OFF. OF HAWAIIAN AFFS. (July 17, 2019), https://www.oha.org/news/oha-statement-on-todays-arrest-of-kupuna-others-on-maunakea/.


525 See Proclamation, Office of the Governor, supra note 524.

Uncritical of the majority’s regressive opinion, TMT supporters, and other bystanders, claim that the rule of law justifies the harassment of Kia’i by law enforcement and the state. Their critiques—that Kia’i are over-emotional and stuck in the past—perpetuate tired “colonial tropes [that] point to the sense of American exceptionalism brought with the U.S. occupation of Hawai’i.” They “see irrational people who fail to see the unique opportunity TMT can provide to Hawai’i and the world.” Emboldened by *Mauna Kea II*, they ask, “[i]f the legal process is thwarted by a vocal minority, what about the rule of law?” But, as Critical Race Theorists and Professors Mari Matsuda and Charles Lawrence III articulated, “settled law can give way when a committed minority heeds the justice call.”

By taking their stand to protect Maunakea, despite criticisms relying on *Mauna Kea II* and the flawed narratives it impressed, Kia’i actively worked to reshape the collective memory of injustice of Maunakea and Kānaka Maoli. And despite the state’s attempt to quash the movement along with Native Hawaiians’ justice claims, the organized movement quickly grew. Kia’i committed to living on the Mauna at Pu’uhonua o Pu’uhuluhulu for as long as necessary. While braving the harsh climate


(*Id.* (“As Hawaii confronts a climate apocalypse we are woefully ill-equipped for, we face annihilation if we cannot learn kapu aloha and a new rule of law: one based on caring for the land and for one another. Instead of seeing protectors on the mountain as crazy Hawaiians, we should consider whether they bring a vision of law that will save our lives.”)).

See *id.*; PU’UHONUA O PU’UHULUHULU, puuhuluhulu.com. Named after the
at an altitude over 6,000-feet, Kānaka Maoli quickly established a highly-organized community rooted in kapu aloha.533

With a “Mauna Media” team documenting the events at Pu’uhonua o Pu’uhuluhulu, the protectors were able to take control over framing how the public perceived what was happening on Maunakea and what led to Kānaka Maoli taking their stand to protect Maunakea in 2019.534 By posting the initial images and videos of Kia’i chained to cattle grates and the live coverage of Kūpuna arrests, “[t]he peaceful dignity of these [Kia’i]” established the media frame for the following weeks” of the Kū Kia’i Mauna movement.535 Soon after, news, information, and personal stories were disseminated directly from Kia’i to the public through social media (i.e., Facebook, Instagram, and Twitter), YouTube videos, the Pu’uhuluhulu website, press releases, and video recordings of near-daily announcements made by Kia’i leaders.536

Not only did the media team “allow[] for rapid mobilization of [protectors],” but it “spread awareness fast and without cost.”537 In this deliberate endeavor to confront pro-TMT narratives and to reshape the

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533 Pu’u’u hill) on which it was established, the Pu’u’honua was “established by Kia’i with the support of the Royal Order of Kamehameha ʻEkahi for the purpose of protecting sacred Maunakea.” Id. “Pu’u’honua” are established places of refuge, sanctuary, and peace and safety. Hawaiian Dictionary, supra note 1, at 358.


535 Id.

536 Id. Sterling Higa describes the “concerted effort to control the narrative on social media probably contributes to the generational divide in public opinion, with older people supporting the telescope and younger people opposing it.” Id.

537 Id. This rapid mobilization and communication via social media allowed Kia’i to garner support in ways that the movement might not have seen otherwise. Id. Those unable to travel to Maunakea sent on-the-ground Kia’i money through Venmo or CashApp to help pay for food, water, and other necessary supplies. Id. And when Kia’i, who were shuttling people to and from the Mauna, lacked money for car repairs, donors were quickly notified and just as quickly met those Kia’i’s needs. Id.
enduring collective memory of Mauna Kea and Kānaka Maoli, Kiaʻi filled the gap in the collective memory that neither local news outlets, which did “not have the resources to properly cover all of the resistance[,]” nor international news outlets, “much of which downplayed . . . Native Hawaiians’ range of concerns,” could accurately cover. Kiaʻi and their media team “reveal[ed] . . . the severely misguided understanding of Native Hawaiian perspectives” held by journalists, local and international communities, the State, and the court. Maoli activist Kawena Phillips explained, this movement and the concerted effort to confront and reshape these narratives central to the collective memory of injustice “is about telling the world that [Native] Hawaiians have a right to our own land, a voice in what happens to it, [and] a right to have people listen to and respect our wishes for our land.”

Early news coverage of the events on Maunakea did not include the “history of litigation that has been ongoing for years around the Mauna, [or] the century-long fight of Native Hawaiians to be recognized, eventually culminating in an apology from the [United States] in 1993 for the forceful and illegal annexation of Hawaiʻi.” But since then some mainstream news outlets have adopted the narrative that, “[a]s [Native] Hawaiian leaders have been stating for decades, this struggle is about ‘more than just [the TMT.]’” Articles published in mainstream outlets including The New York Times, The Guardian, and USA Today began to tell a collective memory of decades of Maoli opposition to development on Maunakea that had been ignored; the project’s damage to the ecology, the


539 See id.

540 See id.

541 See id.

542 See id.

543 Id.

544 See id.

545 Meghan Miner Murray, Why Native Hawaiians Are Protesting a Telescope, N.Y. TIMES A-11 (July 23, 2019) (highlighting “protestors’ larger goal . . . to bring wider attention to their grievances about the state’s economic interests being given priority over Native Hawaiian cultural and land use rights”).


547 Lam, supra note 280 (describing Native Hawaiians’ claims to Maunakea in the context of the broader history of Hawaiʻi’s illegal overthrow).
scenic viewplane, and the aquifer on the mountain; and Native Hawaiians’ enduring mistrust of the University.\(^{546}\) This largely unprecedented shift resulted from Kia’i’s unwavering effort to reshape conversations about—and thus, the memory of—Maunakea and Native Hawaiians.

Kia’i remained steadfast, and Kānaka Maoli supported the movement from afar. People and rights organizations from around the world rallied in support of the Kia’i on Maunakea.\(^{549}\) High-profile celebrities, many with ties to Hawai’i, visited the Mauna and shared their experiences and support via their own social media channels.\(^{550}\) Thousands gathered on neighbor islands, as well as across the continental U.S. and beyond, at rallies, benefit concerts, community town halls, and workshops.\(^{551}\) Exasperated with the University’s compliance in the ongoing mismanagement Maunakea, Kia’i sat in at Bachman Hall outside University of Hawai’i President David Lassner’s office for more than a hundred days.\(^{552}\) Other Kānaka Maoli held their own daily protocol ceremonies outside the Department of Hawaiian Homelands building in Kapolei, and eager communities gathered at trainings and workshops to learn about non-violent direct action and the stories and significance of the Mauna.\(^{553}\)

In early 2020, after holding space on the Mauna for over six months, Kia’i agreed with Hawai’i County Mayor Harry Kim to vacate the access road, both to remain safe against the risks of COVID-19 and with the understanding that no TMT construction would proceed until at least the end of February 2020.\(^{554}\) Kia’i leader Dr. Noe Noe Wong-Wilson called this

\(^{546}\) See, e.g., id.; Murray, supra note 545; Broder Van Dyke, supra note 546.

\(^{549}\) PUʻUHONUA O PUʻUHULUHULU, supra note 532. This included organizations including Amnesty International, the Council of the Native American and Indigenous Studies Association, the Asian Pacific American Labor Force. Id. Many grassroots community groups from abroad also visited Puʻuhonua o Puʻułuhulu in support of Kia’i. Id.


\(^{552}\) Nicole Tam, UH Manoa Students that Occupied Administration Building on Campus Packs Up, KITV4 (Dec. 20, 2019), https://www.kitv.com/story/41483827/uh-manoa-students-that-occupied-administration-building-on-campus-packs-up.

\(^{553}\) See Puʻuhonua o Puʻułuhulu, http://www.instagram.com/puuhuluhulu/.

\(^{554}\) Hawaii Telescope Protesters Leave Camp Due to Virus Concerns, ASSOCIATED
“a victory for the protectors,” though Kia‘i continued to hold space on the sides of Mauna Kea Access Road.\footnote{Michael Brestovansky, Protestors, Kim Reach Agreement to Reopen Maunakea Access Road, HAW. TRIB.-HERALD (Dec. 27, 2019), https://www.hawaiitribune-herald.com/2019/12/27/hawaii-news/protesters-kim-reach-agreement-to-reopen-Maunakea-access-road/.} As of this writing, the TMT’s construction is still halted.

In what has become a 21st century “Hawaiian renaissance,” elders said that this type of movement was unprecedented.\footnote{Kapu Aloha: Remember Your Ancestors, PU‘UHONUA O PU‘UHULUHULU (Sept. 13, 2019), https://www.youtube.com/watch?v=adeqsmRgdyl (“We’ve never experienced anything like this.”). In what became an island-wide movement sparked by this battle over Maunakea, Native Hawaiians across the pae ‘āina (archipelago) were emboldened by Aloha ‘Āina, similar to Kānaka of generations past, and mobilized against developments that threatened the integrity of their communities. Christine Hitt & Aaron K. Yoshino, How the Conflict Over the Thirty Meter Telescope Has Reawakened a More-Than-Century-Old Battle, HONOLULU MAG., http://www.honolulumagazine.com/how-the-conflict-over-the-thirty-meter-telescope-has-reawakened-a-more-than-century-old-battle/ (“No matter where you stand on this issue, there is no question that widespread media coverage surrounding Maunakea has reinvigorated activism in the Hawaiian community and focused attention on other movements and protests across the state. On Sept. 26, 2019, 28 people were arrested while blocking construction equipment headed to a $32 million proposed sports complex at Waimānalo’s Sherwood Forest. About three weeks later, 22 arrests were made in Kahuku and 33 in Kalaeloa after dozens of protesters tried to stop transportation of turbine equipment to the Nā Pua Makani wind farm project.”).} This renaissance illustrates that there is no master narrative or prevailing collective memory of the injustice of Maunakea and Native Hawaiians, despite colonizers’ efforts to cement their incomplete narratives as truth.\footnote{Osorio Testimony, supra note 498, at 3–4.} On the contrary, the battle continues as Native Hawaiians challenge the narratives that have stood as barriers to achieving justice. Although colonizers’ narratives predominated for centuries, Kia‘i have begun reshaping the stories told about Maunakea and Kānaka Maoli in the courts, on social media, through public demonstrations and increased academic scholarship. Through all these efforts, Kānaka Maoli challenge the very narratives that deny them justice.

VII. LOOKING TO KA WĀ MA HOPE: THE FUTURE OF MAUNAKEA AND KĀNAKA MAOLI

Dr. Jonathon Osorio foresaw, as presented in his contested case testimony nearly four years ago, that “the renewal of the protest on the mountain, should the TMT prevail [in court] and try to resume construction, will shake the political foundations of the state.”\footnote{Osorio Testimony, supra note 498, at 3–4.} Just as Dr. Osorio
Kānaka Maoli have done just that.\textsuperscript{559} Through investigating, criticizing, and correcting the inaccurate historical narratives deployed by the Hawai‘i Supreme Court and others in support of the TMT, Kānaka Maoli have illuminated their collective memory of injustice, one which sets the controversy shrouding Maunakea against a backdrop of colonization’s continued destruction to Maoli land (including Maunakea), Maoli people, and Maoli self-determination.

This battle over Maunakea is, at its heart, a battle over the collective memory of Maunakea and Kānaka Maoli and the injustices committed against them both. As Professor Yamamoto points out, “if we seek justice by claiming civil or human rights, we must at the outset critically engage the dynamics of group memory of injustice.”\textsuperscript{560} These group memories are “not about simply recalling past events” but rather they are constructed in the present—they are “built and continually altered.”\textsuperscript{561} The collective memory cast by \textit{Mauna Kea II}, only appearing to take into consideration Maoli voices and perspectives, justified the resulting curtailment of Native Hawaiian traditional and customary rights. By ignoring the purpose and intent behind Native Hawaiian traditions and customs on the Mauna, the court deemed that no “relevant” traditional and customary rights were ever exercised by Kānaka. According to the majority’s selective version of history—void of Native Hawaiians, of the continued resistance to development on Maunakea, and of the University and BLNR’s mismanagement of the summit’s resources, void of any discussion of the illegal overthrow—“justice” requires that the TMT, having gone through the “proper” legal process, ought to be built.\textsuperscript{562}

Although the memories acknowledged by decisionmakers (i.e., BLNR, the \textit{Mauna Kea II} court) typically dictate notions of justice, the legal process “is one, but only one, significant aspect” in shaping both collective memory and justice.\textsuperscript{563} Despite the court’s use of historical narratives that, in actuality, perpetuate colonization’s harms to Maunakea and Kānaka Maoli, Kia‘i and their allies have illuminated that the battle also “take[s]...

\textsuperscript{559} See id.
\textsuperscript{560} Hom & Yamamoto, supra note 5, at 1764.
\textsuperscript{561} Id.
\textsuperscript{562} See \textit{Mauna Kea II}, 431 Haw. 379, 431 P.3d 752 (2018). In discussing Native Hawaiians’ potential unjust enrichment claims, Harvard Law Review importantly argues that “choosing how to recount history can dictate the victor of a land dispute. Aloha ‘Aina: Native Hawaiian Land Restitution, 133 HARV. L. REV. 2148, 2151 (2020). Courts evaluating land claims by Native Hawaiians should trace earlier than the lease at hand, to the Overthrow of the Hawaiian Kingdom.” Id. Although \textit{Mauna Kea II} did not address restitution claims, telling a complete history of Native Hawaiians and Maunakea, including the overthrow, remains nonetheless important in determining Native Hawaiians’ rights claims. See id.

\textsuperscript{563} Hom & Yamamoto, supra note 5, at 1765 (emphasis omitted).
Through mass demonstrations, social media, and Maoli scholarship, art, and literature, Kānaka Maoli have increasingly controlled the stories told and retold about Maunakea, Native Hawaiians, and their justice struggles.

By taking control over the narrative, Kānaka Maoli have more fully and accurately portrayed the collective memory of injustice shrouding Maunakea, one that is not separate from the enduring injustices Native Hawaiians face as a result of colonization. Deploying collective memory as a political tool, Native Hawaiians also envision the Kū Kia‘i Mauna movement as a part of a larger movement to rectify colonization’s gravest harms, including global climate change and human rights violations against Indigenous Peoples. Through actively reshaping the collective memory of Hawai‘i’s past (“ka wā ma mua”), as Maoli Political Scholar and Professor Kamanamaikalani Beamer succinctly put, Native Hawaiians have “altered what’s possible in Hawai‘i and what’s possible” for Kānaka Maoli in “ka wā ma hope.”

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564 Id.

565 See Lam, supra note 280.
I support adoption of UH's draft Master Plan for Mauna Kea

Mike Gonsalves <indigo.gonzo@gmail.com>  Tue, Jan 18, 2022 at 5:39 AM
To: bor.testimony@hawaii.edu

Dear Board of Regents:

I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

We can all share and care for Maunakea! I mua Kilo Hōkū and i mua TMT!

With respect and aloha,

Michael L. Gonsalves
858 Hoomalu Street
Pearl City, HI 96782
Aloha Kakou.

I am writing to strongly support the adoption of UH's draft Master Plan for Mauna Kea.

If there is anything that the last 2 years have taught us is the importance of diversifying the economy in Hawaii and to not be so dependable on Tourism. Astronomy is not only a clean industry, but it is also one that provides strong economic benefits to Hawaii.

While UH might have committed some mistakes in the past on the management of the Maunakea land they manage, they have shown over the past 10+ years significant improvements and dedication. UH has demonstrated leadership in the Stewardship of the Mountain and they are the right entity to continue to manage those lands and to oversee astronomy on Maunakea.

I stand in strong support of UH and their Master Plan.

Mahalo

Rodrigo Romo
Hilo, HI
Mauna Kea Plan
1 message

bettievanoverbeke <bettievanoverbeke@gmail.com>  Tue, Jan 18, 2022 at 8:06 AM
To: bor.testimony@hawaii.edu

I have lived on Hawaii Island 34 years. I taught earth science at Pahoa High and Intermediate school for 10 years through out the 90s.

TMT offers opportunities in STEM education we lack. It offers good jobs and opportunities. It will help look for incoming asteroids we can now do something to deflect. It will greatly enhance science for the world. We can give new discoveries Hawaiian names as has already been demonstrated. Please approve telescopes on Mauna Kea and the TMT. Telescopes are a huge win for Hawaii Island and the world.
I currently live on slopes of Mauna Kea and love seeing the telescopes from my farm.
Aloha,
Bettie Van Overbeke
29-2483 Kaiwiki Homestead Rd.
Hakalau, HI 96710
(808 )785 - 6186

Sent from my Galaxy Tab® A
Request for UH Rejection of the Mauna Kea Master Plan

1 message

Karen Buenavista Hanna <khanna@conncoll.edu> To: bor.testimony@hawaii.edu
To: bor.testimony@hawaii.edu
Cc: protectmaunakea@gmail.com

To the Board of Regents of the University of Hawai’i

January, 2022

Dear Board of Regents of the University of Hawai’i,

My name is Karen Buenavista Hanna. I am a concerned citizen and assistant professor at Connecticut College.

I respectfully ask that UH reject the Mauna Kea Master Plan, halt the Thirty Meter Telescope project, and return Mauna Kea to Kanaka Maoli governance.

The Mauna Kea Master Plan is deeply flawed in many ways. It does not respect the wishes of the vast majority of the Indigenous cultural practitioners of that place. It proposes to block their access with gates. It proposes further construction on Mauna Kea, which Kanaka Maoli have not consented to in any way. It proposes perpetual stewardship by the University of Hawai’i, with no plan of ever returning this sacred mountain to the rightful owners of the Crown Lands upon which UH’s Science Reserve sits.

The University of Hawai’i needs to listen to the actual voices of the people of this land, who have been speaking clearly for a long time. Please reject the Mauna Kea Master Plan, stop TMT, and begin the long but worthwhile process of true healing, so that the University of Hawai’i may be a place of genuine learning.

Thank you for your time and consideration.

Sincerely,

Karen Buenavista Hanna, PhD
Aloha, University of Hawaii is the most logical entity on our island to manage all things astrological. What other entity on the island comes close to their expertise or resources? Our island's economy, scientists and keiki need the TMT, and the sooner the better.
Mahalo, Mary True, Pepeekeo
TMT Support
1 message

Lisa Hutchinson <whistlewhileyouwork808@gmail.com>       Tue, Jan 18, 2022 at 8:37 AM
To: bor.testimony@hawaii.edu

Aloha,

I am a native Hawaiian and I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

Leinaala Hutchinson
Aloha,

We continue to support adoption of UH's draft Master Plan for Mauna Kea. We are proud of the work that astronomers on the mountain have accomplished and support the building there of the TMT. The mountain is large enough to accommodate native Hawaiian practitioners as well as astronomers. It is ludicrous that so-called protesters want to make it an either/or us-versus-them situation. We are tired of minority rule that allows myth to trump science.

Mahalo.

Don and Kerrill Kephart
Aloha!

Kudos to the Mauna Kea working group for attempting the impossible. I do not believe there is any governing model that will pass muster with the TMT protesters, who have for some time placed themselves outside the law in opposition to the rest of the State of Hawaii. The State of Hawaii must not bow to their illegal blockage of the Mauna Kea Access Road. It is of vital importance to the future of our keiki, our environment, our economy, and the conduct of State business that the TMT project go forward. In my view, the new proposed plan and structure put forward by UH deserves your full support. The Mauna Kea Working Group draft report, however well intentioned, should be scrapped in its entirety.

If, however, the draft report remains on the table, I urge you to address the following shortcomings and issues.

1. The astronomy industry must have a vote in the management of Mauna Kea, through the Mauna Kea Observatories Group as well as through UH—that's two votes, please. We are talking about the entities that maintain the access road and inject billion in much-needed green investment into our economy, helping diversify us away from an economy overdependent on tourism and overexploitation of our aina.

2. The protesters must agree to cease and desist with their protests against TMT. They've had their say. The law is against them and the majority of the Hawaiian population (including the native population) is against them. The tyranny of the minority must cease.

3. References to HRS 183 (which addresses forest reserves) and HRS205A (dealing with Coastal Lands) have no place in a document addressing management of the summit of Mauna Kea, which is above the tree line and far from the coast. These references are Trojan horses for future zoning shenanigans to impede the astronomy industry. These disingenuous references must not stand.

4. With all due respect to those who proclaim the “sacred” status of Mauna Kea, Mauna Kea is not sacred as a Native Hawaiian matter. The ali‘i abolished the kapu religion over 200 years ago, and our Constitution prohibits the government from establishing a religion. The opinion or belief that Mauna Kea is sacred is a private matter, by no means shared by all or even the majority of Native Hawaiians.

5. What’s with “Mauna a Wakea”? Whatever the hidden agenda is in promulgating this name, it should not be indulged in document funded by taxpayers. It’s partisan propaganda.

Mahalo nui loa for your attention.
Matthew Gurewitsch
3415 Kuaua Pl.
Kihei (Maui) HI 96753

t/+1 (808) 874-8925
fx/+1 (212) 656-1647

on the web: beyondcriticism.com
on skype & twitter: mg1228
Aloha University of Hawai‘i Board of Regents:

I support adoption of UH’s draft Master Plan for Maunakea because it keeps astronomy on Maunakea alive. Our University has done a masterful job of managing Maunakea over the last 20 years, and it is now some of the best managed public land in Hawaii. Maunakea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of our work. Astronomy on Maunakea is part of our diverse culture and community. Astronomy on Maunakea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Maunakea is vital for our Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of our work.

Mahalo no kou manawa,
Christoph Baranec
Associate Astronomer, Institute for Astronomy
Board of Regents’ Medal for Excellence in Research, 2017
Resident of Hilo, Hawaii
I support adoption of UH’s draft Master Plan for Mauna Kea because it keeps astronomy alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that take place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. Do not let us be the ones Puck was referring to when he said, “Oh what fools these mortals be”, or be swayed by the vocal protesters who, as Lucy wisely advised Charlie Brown, “If you can’t be right, be wrong at the top of your lungs.”

The recently launched James Webb telescope is being heralded to world-wide acclaim. That same recognition, respect, and appreciation will also deservedly be given to the TMT.

I mua Kilo Hoku and i mua TMT.

Mahalo nui loa, and aloha,

Linda Hunter
P.O. Box 888
Honoka’a, Hawai’i 96727

(808) 775-7754 (h)
(808) 640-3036 (c)
To whom it may concern:

I would like to express my support for the adoption of UH’s draft Master Plan for Maunakea, especially because it serves to keep astronomy alive on Maunakea (including the Thirty Meter Telescope, TMT). UH has done an excellent job of managing the mauna over the last 20 years, especially with respect to obtaining a permit for the construction of TMT.

TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

Furthermore, Maunakea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Maunakea is our culture. Astronomy on Maunakea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. As a secondary educator, my classes directly benefit from the presence of astronomy in this state. Keeping astronomy on Maunakea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Sincerely,
Andrew Repp
IN SUPPORT OF UH Mauna Kea Master plan

Adrienne King <adrienne@kingandking.com>  
To: bor.testimony@hawaii.edu

Tue, Jan 18, 2022 at 11:30 AM

Approve the Master Plan and ensure renewal of the Master Lease with the University of Hawai‘i.

- Only UH can credibly continue to manage Mauna Kea---in spite of perceived or real past insensitivities.
- Mauna Kea is actually among the few best managed state-owned parcels of land in Hawai‘i.
- Any other proposal does not insure the expertise required to manage Mauna Kea for the benefit of Hawai‘i’s keiki.
- UH regents know that too few science educational and enrichment opportunities are available to marginalized populations in the state.
- Hawai‘i’s keiki need UH and this state's unequivocal commitment to encourage astronomy and STEM education in the state.
- The United States government aims to address this problem.
- UH will manifest its commitment in this effort by approving the Master Plan and renewal of the lease.

Adrienne King  
Mother of two sons and two grandsons of Native Hawaiian ancestry.

1

Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES) Design and Development Launch Pilots

Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES) is a comprehensive national initiative designed to enhance U.S. leadership in science, technology, engineering and mathematics (STEM) discoveries and innovations focused on NSF’s commitment to diversity, inclusion, and broadening participation in these fields. NSF INCLUDES supports efforts to create networked relationships among organizations whose goals include developing talent from all sectors of society to build the STEM workforce. This initiative seeks to improve collaborative efforts aimed at enhancing the preparation, increasing the participation, and ensuring the contributions of individuals from groups that have traditionally been underrepresented and underserved in the STEM enterprise: women, persons with disabilities, African Americans/Blacks, Hispanic Americans, American Indians, Alaska Natives, Native Hawaiians, Native Pacific Islanders, and persons from economically disadvantaged backgrounds. Significant advancement in the inclusion of these groups will result in a new generation of STEM talent and leadership to secure our nation’s future and long-term economic competitiveness. https://www.nsf.gov/pubs/2017/nsf17522/nsf17522.htm
In support of UH Master Lease for Mauna Kea

UH Board of Regents

I am in strong support of the UH Master Lease for Mauna Kea. Astronomy was a strong part of the original finders of the Hawaii islands and continued for many generations. That knowledge was originally a passed on to the best of the Kānaka Maoli. It is pono that the management of our critical Mauna Kea infrastructure be under the guidance of the most capable institution, one that is interested in the the health and well being of the land, the science, the culture, and the history of astronomy in Hawaii.

Please vote to continue that legacy.

sincerely
Buck Joiner
40 years
Kihei, Maui
Carol Riley <rarchr@icloud.com>  
To: bor.testimony@hawaii.edu  

Support UH plan!!!

Sent from my iPhone
Support for Astronomy
1 message

Saralyn Ready <slready@yahoo.com>  
To: bor.testimony@hawaii.edu  

We must march forward with the work being done in astronomy on Mauna Kea.
Saralyn Ready
Adolph Quasthoff

Sent from my iPhone
Dear Regents
I support adoption of UH's draft Master Plan for Mauna Kea. UH has done an exceptional job of managing Mauna Kea, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!
Mark Rognstad
Kailua, Hawaii

Mark Rognstad <mrognstad@gmail.com>
To: bor.testimony@hawaii.edu

Tuesday, January 18, 2022 at 12:32 PM

Master Plan for Mauna Kea
1 message
Re: Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands and Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices) -- University of Hawai‘i Board of Regents meeting, Thursday, January 20, 2022.

Regents, a poem:

This is not ethnocracy.

This is not theocracy.

This is science based-industry disestablishmentarianism.

Resist.

Ignore posers.

Dismiss n00b self-pwnage.

Aquaman is fake.

Do not reduce numbers of telescopes and astronomical facilities atop Mauna Kea.

Peoples of Polynesia have looked to the heavens for guidance and insight for millennia.

Do not regress.

Mahalo,

pb

Paul H. Brewbaker, Ph.D., CBE
TZ Economics
606 Ululani Street
Kailua, Hawaii  96734-4430
paulbrewbaker@tzeconomics.com
1-(808)-220-1538
Maunakea

Kimberly Kekina <kimkekina65@icloud.com>
To: bor.testimony@hawaii.edu

Bad idea our ancestors had enough 😒🌋

Sent from my iPhone
Aloha, UH Board of Regents

I support adoption of UH’s draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT).

UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work.

Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

I mua Kilo Hōkū and i mua TMT!

William (Bill) Lester
If the plan doesn’t work, change the plan. But never the goal.
Aloha
I am having a very difficult time understanding why building the TMT on Mauna Kea is a problem whatsoever. Hawaii gets a shining star as a leader in astronomy. Hawaii gets permanent great paying local jobs will result. The foundation is paying one million for rent a year and donating one million to local schools. FIVE usable telescopes will be removed to appease the misinformed. The TMT will not be seen from below. The telescopes occupy 1% of the summit. There are no temples nor burial grounds on the summit. The arguments against it are ignorant and remind me of the lies that the MAGAs have bought into regarding the election…Telescopes do not produce nuclear nor other toxic waste. The information obtained will not be sold for a profit. The summit is Kapu not because of religious significance but because the high altitude killed people in the old days. The old kings wanted to protect the people from altitude sickness. A sad misinformation campaign has people believing delusional ideas. Let's not hesitate. Build the TMT now!
Dr Martin Zebzda
Maui HI

Sent from my iPhone
I strongly support the adoption of UH's draft Master Plan for Mauna Kea because it is the best option for keeping astronomy on Mauna Kea including TMT alive. Over the past 20 years, UH has conscientiously improved and perfected its management and today, it is some of the best managed state-owned land in Hawaii.

The protesters' game is to delay as long as possible. Changing the management system would create chaos for the astronomy community. If the Master Lease is not renewed, it will create legal ambiguity that the protesters believe will stop TMT and possibly push the telescopes off Mauna Kea.

Mauna Kea Observatories are the most scientifically productive collection of telescopes in the world. Astronomy on Mauna Kea is respectful and inspired by Hawaiian culture. It provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world class nature of the work that goes on there.

Mauna Kea Observatories are a treasure and TMT would be an amazing feat for Hawaii to bring to fruition. I pray that it can be completed. The UH Master Plan will make it possible for these benefits to continue into the future.

Barbara Heintz
Retired
182 Kaiulani St.
Hilo, HI 96720

Sent from my iPad
Support Astronomy
1 message

Bolek001 <bolekb001@hawaii.rr.com>  
To: bor.testimony@hawaii.edu 

Tue, Jan 18, 2022 at 1:35 PM

Please add my support for the master plan for Maunakea summit. It is vital to the world science community and the local children of Hawaii to become science leaders in the future. Maunakea is a Hawaiian treasure and a resource for science worldwide. The plan should accommodate both.

Sent from my iPhone

Benett J Bolek
Mauna Kea Master plan
1 message

Eric Johnsen <gejsen@gmail.com>                          Tue, Jan 18, 2022 at 1:46 PM
To: bor.testimony@hawaii.edu

Please register our support for the UH Master Plan for Mauna Kea. We agree with everything said below, in particular for the standing of astronomy at the head of the list of appropriate uses to take place on the summit.

I support adoption of UH’s draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up.

Aloha,
Eric Johnsen and family
Honoka’a, Hawaii.
Board of Regents:

I am writing in support of the UH Hilo Center for Maunakea Stewardship's existing management structure and stewardship of Mauna Kea and in strong opposition to the approach taken and the recommendations made in the Mauna Kea Working Group draft final report. It is clear from review of the draft that the ostensible purpose of the group, to propose a new framework for management of Mauna Kea, should be understood as code to develop a way to stop TMT. Let me explain my conclusion:

- Eliminating the astronomy community, one of the primary island communities utilizing space on Mauna Kea, from the Government Entity proposed as the new Manager is a confounding conclusion for a group dedicated to "community input and outreach" to have reached. It ensures anything but comprehensive "community input".

- Taking an extremely one sided and ethnocentric view of a shared environmental resource is hardly the way to avoid the polarization the report decries in its description of the previous efforts undertaken by the current Manager.

- Ignoring the recent efforts the UH Hilo Center for Maunakea Stewardship has proposed, in what seems a good faith effort, to listen to complaints and ameliorate past omissions, certainly presents a one-sided assessment of a complex situation.

- Allowing a three year transition period for the new Governing Entity to assume management ensures that sufficient lease arrangements for TMT and for astronomy on the mountain are impossible, thus rendering the demise of TMT a foregone conclusion.

- Planning to “return the Mauna above 9200 feet elevation to its natural state”, which I can only read as a pre-observatory state, is pretty unambiguous about blocking TMT and astronomy in general from the mountain and the state.

I get it that the idea for this working group was a political placeholder for opposition to TMT, and that that opposition is in its turn a placeholder for outrage at the abridgement of Hawaiian sovereignty, but why the subterfuge? Let’s call it what it is and call this report what it is: an exhaustive effort at further confusing a complex situation in which there are multiple stakeholders, and an excuse for coming up with a pre-determined conclusion for one highly vocal stakeholder group that by no means speaks for the entire group it proports to represent.

Dennis Boyd
Kailua Kona
As a Hawaii born person, I strongly believe that TMT is the best gift we could get. This is an opportunity to allow our citizens to excel in the world, and an extraordinary opportunity for our keiki.

Please have UH continue to manage this as they have done an extraordinary job to date.

Aloha nui loa,
Leslie Agorastos

--

Leslie M Agorastos  
Coldwell Banker Island Properties RB-16822

67-1185 Mamalahoa Hwy  E-128
Kamuela, Hawaii  96743
M: (808) 937-4022  O: (808) 887-0887
Testimony attached relating to Maunakea Master Plan

Miles Yoshioka <miles.yoshioka@hicc.biz>
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>

Tue, Jan 18, 2022 at 3:02 PM

Aloha,

Please find our testimony attached in support for the Proposed Master Plan for the UH Maunakea Lands.

Miles Yoshioka
Executive Officer
Hawai’i Island Chamber of Commerce
1321 Kino’ole Street
Hilo, HI 96720
Phone: 808-935-7178
miles.yoshioka@hicc.biz
www.hicc.biz
https://www.facebook.com/HawaiiIslandChamberofCommerce

Hawaii Island Chamber_BOR testimony 01182022.pdf
133K
January 18, 2022

TO: University of Hawai‘i Board of Regents

FROM: Miles Yoshioka, Executive Officer
Hawai‘i Island Chamber of Commerce

SUBJECT: Support for Proposed Master Plan for the UH Maunakea Lands

Aloha Chair Moore and all distinguished Regents,

The Hawai‘i Island Chamber of Commerce, formed in 1898 by the business community of the Island of Hawaii, has continued to be a dedicated supporter of scientific and, in particular, the astronomical enterprises on Maunakea.

In 1963, the Executive Secretary of this Chamber, Mr. Mitsuo “Mits” Akiyama began his quest to rebuild the economy of Hawaii Island, then devastated by the 1960 tsunami that hit Hilo Bay, much as how the COVID-19 pandemic is affecting Hawai‘i Island’s economy today. Through the efforts of Mr. Akiyama, Mauna Loa astrophysicist Howard Ellis and astronomer Dr. Gerard Kuiper, the first telescope was placed on the mountain a few years later for site testing, a precursor to the world-class astronomical center it is today.

Our chamber continues to stand with Hawaii’s business community in support of astronomy, science, culture and environmental stewardship. The economic benefits of this industry are significant. There are hundreds of local residents currently working in the industry earning good wages and supporting their families and community.

Initially through the Office of Maunakea Management and now, through the Center for Maunakea Stewardship, UH has dedicated its management efforts to the protection of the natural and cultural resources while ensuring the UH managed lands on the mountain allow for world-class astronomy. A point we should all be proud of.

HICC members have actively participated in every management plan process, invasive weed pulls and one of our members was awarded for her efforts in partnering with CMS for environmental stewardship. We are working together in our community to ensure best management practices continue for Maunakea.

The University of Hawaii has sought to balance multiple community interests when it comes to Maunakea. The balance struck in the Master Plan limits
telescope development and protects natural and cultural resources, all while ensuring a world class astronomy program for Hawaii continues.

We stand by our testimony submitted in December 2021 in support of the Master Plan. We call on you to support the Master Plan as well and continue stewardship efforts to malama Maunakea.

Thank you for your time.
Requesting UC to withdraw from TMT

Amisha DeYoung-Dominguez <deyoungdominguez@gmail.com>  
To: BOR Testimony <bor.testimony@hawaii.edu>  
Cc: protectmaunakea@gmail.com, "regentsoffice@ucop.edu" <regentsoffice@ucop.edu>

Hello,

Thank you for following up. I would appreciate if your staff could include the attachment in this email as my testimony to the UH Board of Regents (along with the other letters of public comment requesting to halt the TMT project) in the meeting packet that is given to the Board. I greatly appreciate your time and consideration.

Sincerely,
Amisha DeYoung-Dominguez

3 attachments

- January 18, 2022.pdf
  11K
January 18, 2022
Dear Board of Regents of the University of Hawai‘i,
My name is Amisha DeYoung-Dominguez. I am a concerned citizen, UCSB alumni, mother, and attorney from Oxnard, California.
I am taking time from being with my family and toddler because it is important that you hear from people from all walks of life.
I respectfully ask that UH reject the Mauna Kea Master Plan, halt the Thirty Meter Telescope project, and return Mauna Kea to Kanaka Maoli governance, for all the same reasons that advocates have been urging you to do so.

Sincerely,
Amisha DeYoung-Dominguez
I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!
Aloha kākou, I am writing in support of the new University of Hawaiʻi Master Plan, E Ō I Nā Leo. I believe that UH has learned a great many lessons in its time managing the mauna and any new entity seeking to manage Maunakea would not be equipped with these experiences. That being said, I think UH will need to dedicate a lot more financial and staff resources to support this vision proposed in the new Master Plan than what they currently provide. The organizations mentioned in this plan such as the ʻImiloa Astronomy Center of Hawaiʻi and the Center for Maunakea Stewardship have incredibly dedicated and hardworking staff who mālama Maunakea in various ways. Their staff needs to be doubled to support the goals of holistic and hands-on educational programming and stewardship that this plan proposes. I also firmly believe that public access should be restricted or heavily discouraged for particular areas on Maunakea to preserve them physically and spiritually.
sincerely hope that the adoption of this plan will bring about radical change in stewardship, education, science
and culture on Maunakea.

Your Testimony (pdf or word)

No file attached
Aloha,

Please accept the Maunakea Observatories written testimony for the regents meeting on Jan 20, 2022, regarding agenda item VI.E-F about the Proposed Master Plan for Maunakea.

Thank you,

Rich Matsuda

W. M. Keck Observatory

MKO Testimony_2022 January 18.pdf
138K
To: University of Hawaiʻi Board of Regents  
From: Maunakea Observatories  
Subject: Testimony on Proposed Master Plan for the University of Hawaiʻi Maunakea Lands  
Date: 18 January 2022  

The Maunakea Observatories (MKO) appreciate the University’s efforts to guide land use decisions for the next two decades through the proposed Master Plan, E Ō I Nā Leo. MKO extends our support and desire to collaborate to all stakeholders on Maunakea as the important and weighty future responsibility of governing the Maunakea Science Reserve lands is determined.

The MKOs agree with a long range commitment to astronomy in the draft Master Plan. We believe science is important, and astronomy is beneficial to our local community, the state of Hawaiʻi, and the world.

For the past five decades, telescopes on Maunakea have provided important new knowledge about the universe, including two Nobel Prizes in Physics, the very first image of a black hole - Pōwehi, detection of ‘Oumuamua - the first known interstellar object passing through our solar system, the first image of a solar system beyond our own - HR8799, and much more. The publicly shared scientific knowledge produced on Maunakea deepens our understanding of the laws of nature and even addresses fundamental questions about human existence.

There are many positive benefits that result from our scientific endeavors. We share astronomy with students through our many STEM outreach activities, such as the Maunakea Scholars Program that provides opportunities for Hawaiʻi public high school students to engage in research using highly-coveted time on Maunakea telescopes. We provide high-quality internships to college and community college students from Hawaiʻi through programs like the Akamai Workforce Initiative. And, we offer a wide range of engineering, technical, scientific and administrative employment opportunities for Hawaiʻi residents in our workforce of approximately 500 jobs at the MKOs. In addition, the MKOs rely on scores of local businesses to conduct our operations. The total economic impact is significant, contributing approximately $200M per year to Hawaiʻi’s economy.

While we believe in the benefits of astronomy, we acknowledge that for many in the Native Hawaiian and local community Maunakea is a wahi pana of immense environmental and
cultural significance that takes priority over other activities. Knowing this, we strive to conduct astronomy in a balanced and respectful way with care for the environment and respect and support for Native Hawaiian cultural practices. Our thoughts are in alignment with the recently released Decadal Survey on Astronomy and Astrophysics 2020 (Astro2020) from the National Academies of Sciences, Engineering and Medicine, which includes a major recommendation for “the development of a new model for respectful, collaborative decision-making in partnership with Indigenous and other local communities.” As such, the MKOs recommend the plan be more specific about its impacts on the indigenous Native Hawaiian and local communities, and that the plan outline processes for meaningful partnership and collaborative decision-making with these communities, which we look forward to participating in.

Thank you for the opportunity to provide testimony.

Aloha,

Director Hilton Lewis, W. M. Keck Observatory (Keck I and Keck II)

Interim Director Andy Sheinis, Canada-France-Hawaii Telescope

Director John Rayner, NASA Infared Telescope Facility

Director Michitoshi Yoshida, Subaru Telescope
Aloha:

Because the present use of Mauna Kaaba has been so beneficial and can continue to be, I recommend that you continue this program. I am proud that Hawaii is a window into the universe and that you have administered this respectfully and responsively.

Mahalo

Gene Grounds
Aloha. I am a Hawaii island retired public school teacher and I have worked as a middle school science teacher at Honoka‘a High and Intermediate and ma ke ‘ano he kumu ‘epekema malaa‘o a i ka papa 9 ma ke kula ‘o Nāwahīokalani‘ōpu‘u Iki. I am currently employed at the Visitor Information Station at 9,200 feet where I serve the visitors through informing them about how to visit Maunakea safely and respectfully. Thus, I am an employee of the UH Hilo Center for Maunakea Stewardship.

I want to express my full support for the responsible, respectful and pono adoption of UH’s draft Master Plan for Mauna Kea because it keeps astronomy and culture on Mauna Kea alive, including the Thirty Meter Telescope (TMT).

Visitors to Maunakea have great experiences while they are there, as evidenced by their enthusiasm and many positive comments: https://www.yelp.com/biz/mauna-kea-visitor-information-station-hilo-2

Every day I work, I witness the hard work and dedication of the workers at the VIS and Hale Pohaku, and the Rangers, who risk their lives every day to make sure people are safe. Just last week they saved someone’s life in the middle of a blizzard. And this week there was a tragic accident which might have been prevented if they had followed safety protocols. My boss does a great job keeping us safe and informed. Almost all employees at the MKVIS graduated from local public schools. Then there are the people who plant and create habitats for our native flora and fauna, including the silversword, the wēkiu bug, the māmane, and the palila. In addition, there are the telescope techs, the astronomers, the engineers and the people who clear the roads. These are all local people in the community, many who have worked 20 or 30 years at Maunakea.

UH Hilo Center for Maunakea Stewardship is already doing a great job. When problems come up, they get discussed and fixed. If there needs to be a compromise, then that is discussed and acted upon. At the moment, the UH Center for Maunakea Stewardship charges NO FEES to visit the mountain. Everyone is welcome, for free. Just be safe and respectful.

UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit
in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Na‘u me ke aloha,
na K. Roseguo
Aloha,

Enclosed is my written testimony for the Mauna Kea Master Plan.

Mahalo for your time and consideration.

Best wishes,

Peter

MKMP--Maurer.pdf
28K
Dear members of the Board:

This document is clearly the result of long hours, unbridled patience, and hard work. A great deal of thought and care has been given. I am in favor of the majority of the Master Plan.

As an environmentalist who spoke out numerous times against hydraulic fracturing in New York, I have noted your efforts and care in helping the environment thrive. I appreciate them. I support the upgrades of the VIS and other mid-level support facilities, while recognizing the need to balance those upgrades with the environmental impacts.

Section 4.1.1 on page 4-1 indicates that astronomy was identified as a desirable location for astronomy. However, I feel this history is incomplete, as officials and community members recruited astronomy to help stimulate the local economy due to a natural disaster. Astronomy continues to provide stability as a source of employment and research for Hawaii.

I’m grateful for your continued support of astronomy. As you eluded, most knowledge in astronomy plays a role helps us understand much about our own planet and informs other disciplines, such as medicine and climate. Astronomy also helps guide our perspective as well as our own history on Earth, this solar system, and the universe. I appreciate your continued support toward astronomy, and a management structure that will be more comprehensive to maintaining the cultural and natural resources on Mauna Kea.

Finally, as a strong supporter of education, I urge the University of Hawaii to continue following through on its promises to support community and educational programs for students and the community. Education helps us solve difficult problems and create thriving communities. And, of course, you will also need individuals trained in the sciences from Hawaii to help maintain the observatories and explore Laniakea.

Thank you for your time.

Peter Maurer
In support of UH's Master Plan, and TMT
1 message

Victoria Missien <missienv001@hawaii.rr.com>
To: bor.testimony@hawaii.edu
Tue, Jan 18, 2022 at 4:37 PM

Our family fully supports the University of Hawai‘i continuing their oversight and management of Mauna Kea, and support their draft Master Plan towards renewal of their Master Lease. Divisive as this issue has become there is no denying the historic, indigenous importance of continually seeking enrichment through the study and knowledge of our night skies. The informed curiosity which led the ancestors to the islands of Hawai‘i is the gift and endowed responsibility for us now: to seek, learn, caretake and share.

There have been assertions that past management of Mauna Kea was less than it should have been, and that any past shortcomings should deny UH continued stewardship, and furthermore deny all astronomical studies at the summit. Whether this accusation is fair or strategic, humanity can and does learn from experience, including gained knowledge of better practices. It would be a sad disservice to determine there is no place for scientific study on Mauna Kea, and that it be strictly a spiritual temple. Mauna Kea has been, can, and should be both, and so much more. The potential to collaborate on a richly rewarding future for education, enrichment, honoring traditions, inspiring our keiki, and yes increased economic diversity is there. It is all possible.

Civility, respect, patience, listening, compromise, and inclusion is needed from all.
To the Board of Regents:

I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a good job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. Thank you.

Sincerely,
Martin Abel
To the University of Hawaii Board of Regents,

I am an astronomer and have been working for one of the oldest telescopes on the summit of Maunakea for over 22 years. I feel so blessed to be able to work in such a special and unique place.

I urge you to adopt UH’s draft Master Plan for Maunakea because it keeps astronomy on Mauna Kea alive, and it brings in Hawaiian participation in its stewardship through the Kahu Ku Mana council and the Hawaiian Culture committee. I especially like that they hope to broaden their inclusion to more Hawaiians. It includes the Thirty Meter Telescope (TMT) to ensure Hawaii remains at the top of productive astronomical research. UH has done a masterful job of managing Mauna Kea over the last 17 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Maunakea is now some of the best managed state-owned land in Hawaii. Maunakea Observatories (MKOs) are the most scientifically-productive collection of telescopes in the world, and I am proud of the work we do and its impact on all of astronomy. Astronomy on Maunakea is our culture. Astronomy on Maunakea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Maunakea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I whole-heartedly support the mission of the IfA at UH, all the MKOs, and their future to come when the lease for the Astronomy Precinct is renewed and this is just one of the first steps toward that end.

Mahalo nui loa,
Lisa
Agenda items e f and g
1 message

Cheryl B <burgharc@gmail.com>  To: bor.testimony@hawaii.edu

Comments:

Letter E: I oppose the Mauna Kea plan.
1. It with minor revisions looks the same as we have seen under the continued mismanagement of the Mauna by UH.
2. The UH BOR and UH has given too much weight to one department of the university, astronomy as well as to the members of the community supporting the large tool of astronomy. The amount of funding for its' promotion, legal fees and PR from the citizens of Hawai`i’s taxes could be used in many other places that would benefit the entire university.

Letter F: I oppose the Mauna Kea Plan and object to the agenda forwarded to us.
Simply put: why is testimony being requested when letter F says adoption of the plan? We are quite aware that UH BOR will rubber stamp this after they try to give the illusion that they are listening but to put it clearly on the agenda?

Letter G: I oppose the Mauna Kea Plan because as long as UH remains a systemic Eugenics-based place, there is no path to reimagining the university in its current or any new incarnation.

C. Burghardt
Aloha,

We are opposed to the Draft Maunakea UH Master Plan in its entirety.

It’s interesting that you chose the words E Ō I KA LEO (LISTEN TO THE VOICE) as your title. It is not a very suitable title since through the years no actual “listening” has been done by the University of Hawai‘i about protecting Mauna Kea as the most sacred site in Hawai‘i.

In your Forward, you link Mauna Kea as the origin to early Hawaiians as the first-born island to modern astronomy and a window to the origins of the universe. These two ideals could not be more different. The “only” spot or portal on earth where an individual can stand and connect to their ancestors or receive ancestral knowledge is entirely separate from a manmade device that could be absolutely anywhere including outside the earth’s atmosphere to “view” the universe. Thus, the entire premise of your title and ultimately your perspective are quite skewed.

You write of “astronomy on Mauna Kea as an important element of the island’s future economic and educational base”. However, expenses linked to mismanagement, lack of oversight, and poor decisions have caused UH and ultimately the State of Hawai‘i to spend millions of taxpayer dollars to fight lawsuits, direct funds unnecessarily to pay for future decommissioning of telescopes, etc., etc. Education (and particularly early education) suffers the greatest loss of funding when States have these unnecessary expenses. This of course is also a catalyst for poor fiscal responsibility. It is not only short-sighted but dangerous to believe that astronomy on Mauna Kea is a necessary means to economic stability in Hawai‘i.

We would agree that Mauna Kea is a “unique source of learning”. The natural and unique ecosystems including rare and endangered species is the ultimate learning opportunity. UH has unfortunately not protected these areas and has aided in the population decline and the potential future demise of the Pali Lama (although you have tried to transfer the blame on feral animals). The facilities at Halepōhaku on Mauna Kea where the Pali Lama once thrived have caused irreparable harm. While any disturbances and developments at Halepōhaku or the Mid-Level facility areas should be avoided to protect the federally designated critical habitat, UH continues to expect to build and develop these areas. Most recently, a new parking area was made where Māmane trees should have been planted instead. And UH also has the intent of putting a teaching telescope there. This once again has proven UH to not be a good steward of the land nor protector of nature, endangered species and sensitive ecosystems.

Under “UH’S VISION FOR MAUNAKEA” it states, UH recognizes that it must protect the area’s various values including “culturally significant landscape and a recognized historic district with many contributing historic properties” and “rare subalpine and alpine ecosystems”. However, cumulative impacts upon Mauna Kea’s cultural, archaeological, historic, and natural resources have been substantial, significant and adverse under UH’s management and have been well documented as such. So, why would anyone believe this statement? UH continues to send out
a smoke screen filled with deception. Including the “CORE VALUES ASSOCIATED WITH MAUNAKEA” all of which have not been followed to date.

1.4.1 RESPONSIBLY STEWARD MAUNAKEA FOR PRESENT AND FUTURE GENERATIONS
UH:

1. Embraces its responsibilities to Native Hawaiians, respecting their religious and cultural practices;

The TMT project proposes to be built in an undeveloped area amongst the hundreds of the documented and undocumented ahu (shrines) and cultural sites. Kukahau’ula as one example, was determined a historic (district) by SHPD owing its association with legendary figures and ongoing Native Hawaiian cultural practices, however, 1100 feet of the 3400 ft long Access Way that would serve the proposed TMT would cross Kukahau’ula. In addition to hundreds of find spots and shrines in the summit region, it has been referred to by archaeologists with DLNR-SHPD as a “ritual landscape” that UH has shown no care in wanting to protect.

2. Dedicates itself to the protection of the landscape and the flora and fauna that have evolved in its isolated ecosystems;

Time and time again individuals have noted their concerns about the many pollutants such as mercury and other waste products that come with the use and maintenance of the telescopes on Mauna Kea. The fact that adequate studies have not been done on the impacts of those pollutants on the groundwater and native flora and fauna is of great concern and has never been addressed by UH.

3. Dedicates itself to the pursuit of the many non-astronomy research and educational activities for which Maunakea is especially well-suited; and

These areas should be the main focus. Those activities which do not desecrate sacred lands.

4. Will limit astronomical research facilities and projects to only those for which Maunakea is particularly well-suited.

Like many things UH does, the wording here is a smoke screen and not well defined.

As for the objectives:

• Guide human activities on the mountain in a way that minimizes their adverse effects and is sustainable.

Once again, UH has not been a good steward of the lands of Mauna Kea themselves. Therefore, it remains questionable whether they can accomplish this objective since their standard of measuring “adverse effects” is questionable.
• **Protect, maintain, and restore the cultural landscape and natural resources by implementing the CMP management actions.**

The OMKM has failed to properly consult with Native Hawaiian cultural practitioners to develop and implement CMP Cultural Resources policies.

• **Affirm and protect Maunakea as a wahi pana and wao akua.**

Dr. Kahakalau articulated in the TMT contested case that “the entire mountain, as a first born, has a unique, special status for culturally-connected Hawaiians and exudes mana, Mauna Kea’s summit, based on what I was taught, as the highest peak not just in Hawai‘i but the entire Pacific, is also clearly a Wao Akua. A Wao Akua, versus a Wao Kanaka, is reserved for deities and spirits and should only be accessed for specific, always and only spiritual practices, involving special protocols.

It is clear that UH has not protected nor affirmed Mauna Kea as a Wao Akua. Once again, they are using words that are not associated with their actions thus far.

• **Provide educational and other programs to ensure public activities are conducted in a manner that respects Native Hawaiian practices, does not unduly impact the environment, protects and sustains resources, and maintains human health and safety.**

UH is using words to disguise their intentions. Notice that “private activities” nor “corporate activities” are listed here. So one can make the assumption that they only want to “do what’s right” if the “public” is involved. Who is holding the telescope partners, potential construction companies, tour operators etc., accountable?

• **Build relationships between the mauna, its special caretakers, and the broader community.**

Clearly UH has failed here in the past, and there’s no comprehensive plan listed as to what that will entail or look like as an effort from UH.

• **Limit permitted commercial activities to those which support the stewardship of Maunakea’s resources.**

This appears to be just another “unclear” statement that UH wishes to remain vague so they can interpret and change “at will”.

**1.4.2 MAINTAIN THE UNIVERSITY’S & MAUNAKEA OBSERVATORIES’ STATUS AS WORLD LEADERS IN ASTRONOMY**

The best astronomical viewing conditions are obviously high altitude, low temperature, continuous darkness, and a stable atmosphere free of dust and moisture. These conditions are obviously more perfect in outer space than they are on earth. UH can certainly maintain its status as a world leader in astronomy by supporting non-land based telescopes and a world class teaching and observational facility that is “not” on the top of Mauna Kea.
This would also allow UH to be a true leader in the world. One who puts native people and land, endangered species and native flora and fauna, above all else. A genuine leader in the ultimate land conservation effort for future generations. Putting people before profit, preserving habitat for wildlife, maintaining native ecosystems and acknowledging, truly acknowledging Mauna Kea’s natural and cultural resources as well as Native Hawaiian traditional and customary practices and rights for all time by not allowing any more telescopes atop the mountain.

This would be the most responsible stewardship of Mauna Kea for present and future generations.

UH will continue supporting the vision of a knowledge-based economy Hawai’i’s economic future should not depend on a knowledge based economy. Economic success cannot be guaranteed by jumping on the bandwagon of technology or scientific ideology. Monsanto has been a perfect example in Hawai’i of why that can be a dangerous road to follow. Ensuring that inequality does not increase into the future is a very important element and measurement of economic success.

1.4.3 DIVERSIFY EDUCATIONAL PURSUITS AND EXPAND RESEARCH OPPORTUNITIES While the concept of UH working to strengthen its support of research and educational programs in indigenous, natural, and social sciences is a positive pursuit, it should be combined with an effort of sustainability. UH should strive to meet the needs of students without compromising land, ecosystems, traditional and customary practices and rights, social and educational equity, and the ability of future generations to know the natural and scenic beauty of Mauna Kea.

1.4.4 SEEK BALANCE AND MUTUALLY BENEFICIAL RELATIONSHIPS AMONG MAUNAKEA’S STAKEHOLDERS While UH constantly professes to seek a mutually respectful and beneficial relationship with Mauna Kea “stakeholders”, its actions show otherwise. UH’s ineffective management and the unlawful actions of its own employees and individuals under their jurisdiction have continuously resulted in adverse impacts upon Mauna Kea’s natural and cultural resources. Native Hawaiian traditional and customary practices and rights have also been negatively impacted. They consistently fail to properly consult with Native Hawaiian cultural practitioners and have allowed desecration and dismantling of cultural sites on Mauna Kea. This has shown their lack of concern for the health and safety, proper stewardship, and preservation of resources. Actions matter more than words here.

1.5 STRATEGIES 10. Facilitate the development of a new astronomical facility on Astronomy Site 13 Site 13 is a roughly 5-acre area at the end of a four-wheel drive road at an elevation of 13,150 feet on the Northern Plateau of Mauna Kea where there are no current developments.
According to Kealoha Pisciotta’s Written Direct Testimony in the contested case, the viewplane is in “direct line of sight of Maui and the NW plane which is used for ke ala ao (solstice and equinox) ceremonies. There are also lines that represent the relationship between Mauna Kea and Poli`ahu Heiau on Kaua`i, Ahu a Umi Heiau situated between the three great mountains (Hualalai, Mauna Loa and Mauna Kea) on Hawai`i Island, the Pu`u Kohola Heiau in Kawaihae, Hawai`i Island, and Motu Manamana (Necker Island) of the Northwestern Hawaiian Islands which marks the great turn around of the sun during the ke ala polohiwa time. The shrines on this tiny island are related to this relationship too.”

Hāwane Rios also testified she has received ancestral knowledge through mediumship in areas on the Northern Plateau. Ms. Rios explained the significance of shrines along the Northern Plateau, their connection to one another, their alignment with the constellations and tides at certain times of the year, and that they are portals which connect to celestial bodies of the universe. In particular, the Northern Plateau is a place of learning, a celestial realm in the cosmos that is also connected to voyaging. She describes the Northern Plateau as "a very sacred space of higher learning, spiritual learning, higher consciousness."

These are just a few reasons why development on site 13 should not be a consideration if UH truly and deeply cares for Native Hawaiians and their spiritual, traditional and customary cultural practices.

**HALEPŌHAKU (FACILITIES)**

UH continues to disregard endangered species including the Palila in its decision making and Master Plan. They are merely mentioned as a matter of fact. Grading and paving areas, reconstructing areas, building new facilities or adding to existing ones all have a significant effect. Dust and noise etc. in this area during construction will have a tremendous environmental impact. Mitigation measures alone will not suffice. A potential multi-year project will mean a number of nesting seasons for the Palila. Once gone, they may never return. Or, they may be lost forever. There is no guarantee either way. The risk is much too great for an endangered species and its potentially minimal survival rate.

It is stated that, “The DLNR, which is leading Palila recovery efforts, has asked that new disturbances and developments at Halepōhaku be avoided.” However, we already know that disturbances and developments have occurred recently including a new parking area. It is clear the UH doesn’t follow any recommendations for ensuring these areas of critical habitat remain undisturbed.

Archaeological surveys should also be done in this area. UH often rushes to get things done before adequate surveys to confirm there are no historical or cultural properties, altars or remains there.
MAUNA KEA SCIENCE RESERVE

All potential plans for the Mauna Kea Science Reserve should be put on hold. UH’s actions over the past five decades have already resulted in substantial, significant, and adverse impacts on Mauna Kea’s summit region. We must conserve the ecological and culturally irreplacable ecosystems on the summit and preserve this historic district for future generations of Native Hawaiians to continue their customary and traditional practices.

“Mauna Kea, the highest mountain peak in the Hawaiian Islands, is of profound importance in Hawaiian culture. The summit region is sacred to Native Hawaiians, and because of its spiritual qualities, traditional and customary cultural practices are exercised throughout the summit area.” This statement regarding Mauna Kea’s cultural significance is affirmed in the Concurring Opinion from Mauna Kea Anaina Hou v. Board of Land and Natural Resources (2015).

Mauna Kea’s summit region is sacred. Native Hawaiian traditions state that ancestral akua reside there.

E. Kalani Flores stated the following in his Written Direct Testimony in the TMT contested case:

“Embedded within these ahu and stones is ‘ike kupuna and ancestral knowledge along with ancestral guardians. As such, construction (of the TMT observatory) in this vicinity would sever our past, present, and future generational connections with the ‘ike kupuna and ancestral knowledge implanted at these sites. With the understanding that many of these sites serve as depositories of ancient wisdom as well as multi-dimensional portals, the massive extent of destruction proposed in this culturally sensitive landscape would also adversely impact our Native Hawaiian customary and traditional practices that are still connected to these sites.

It is for these reasons that we oppose the Draft Maunakea UH Master Plan in its entirety. UH should be “listening” to those who may oppose any further development on Mauna Kea. UH has done enough damage.

Thank you for your time.

Cheryl Burghardt
Wendy Green
Aloha,

Please accept the attached document that provides our written testimony for the UH Board of Regents.

This is for the January 20, 2022 meeting, Agenda Item F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices).

Mahalo,

Wendy J. Laros, President & CEO

Kona-Kohala Chamber of Commerce
75-5737 Kuakini Hwy, Ste. 208
Kailua-Kona, HI 96740
(808) 329-1758
wendy@kona-kohala.com

2022.1.18_Kona-Kohala Chamber - Testimony for BOR, UH Maunakea Lands Master Plan.pdf
453K
January 18, 2022

RE: Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Nā Leo.

To the University of Hawai‘i Board of Regents,

The Kona-Kohala Chamber of Commerce brings together the business community as a strong, united voice to address key issues in our community, on our island and in our state. Founded in 1968, our 430 member businesses and organizations represent a wide range of industries such as agriculture, aquaculture, astronomy, banking, construction, education, finance, food service, healthcare, media, non-profits, retail, real estate, tourism, technology, transportation and more. We exist to provide leadership and advocacy for a successful business environment in West Hawai‘i. Our goal is to enhance the quality of life for our community through a strong, sustainable economy on Hawai‘i Island.

We support the Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Nā Leo and ask that you adopt the plan. We believe in the UH’s mission and purpose to “Sustainably steward Maunakea for the benefit of our communities, Hawai‘i, and the world, as a publicly-accessible learning landscape where all who visit learn, and those who seek something more discover through rich multi-cultural experiences and multi-disciplinary discourse. Provide equal opportunities across the schools of the UH system and community partners to engage with the mauna in ways that perpetuate and advance knowledge, wisdom and values while fostering mutual understanding and respect.”

UH recognizes this is a precious area for residents and visitors seeking cultural, educational, recreational, and exploration experiences. With entities in place such as the Center for Maunakea Stewardship, ‘Imiloa Astronomy Center and the Institute for Astronomy, the University of Hawai‘i has broad resources, vast knowledge and a steadfast commitment to provide the best possible stewardship under very complex circumstances.

We strongly support UH management and state lease renewal on Maunakea. The University of Hawai‘i is by far the best option for a management structure on Maunakea and the lease renewal of 2033 is urgent. The University has taken significant steps to address issues and improve management. We applaud the depth, scope and considerations embedded in the Master Plan pertaining to land use and facilities along with the Comprehensive Management Plan (CMP) that fully outlines related activities and resources.

The Kona-Kohala Chamber of Commerce strongly supports the astronomy industry on Maunakea noting significant scientific discovery, global leadership, educational outreach, workforce pipelines, jobs and economic impact. Hawai‘i has worked diligently to diversify its economic sectors and attract high tech industry to create more opportunities. Hawai‘i’s astronomy sector provides needed economic diversity with a statewide impact of $167 million. Astronomy activities generate over $52 million in earnings, over $8 million in state taxes and 1,400 jobs statewide. We are very grateful to the UH Institute for Astronomy and Maunakea’s astronomy industry for well-developed, impactful programs that better prepare Hawai‘i students...
to become the workforce for higher paying science and technology jobs in Hawai‘i’s 21st century economy.

We support culture, science and environmental stewardship on Maunakea. In 2017, we recognized the University’s commitment to culture on Maunakea when the Office of Mauna Kea Management, now Center for Maunakea Stewardship, was the recipient of the Kona-Kohala Chamber of Commerce Pualu Award for Culture and Heritage. The Chamber’s Pualu Awards recognize businesses, organizations or individuals that work together for the betterment of Hawaii Island. The meaning of pualu translates to “all together, in unison, and cooperative.” (Pukui & Elbert, 1986).

We support expanded educational activity and construction of a new UH observatory at the Halepōhaku Mid-Level Facility to continue the important work of teaching, training and conducting research. As mentioned in the plan’s opening message, “Efforts already underway to elevate culture and education as key priorities alongside astronomy and land stewardship have begun with the assignment of responsibility to the ‘Imiloa Astronomy Center of Hawai‘i. ‘Imiloa is developing additional necessary and appropriate educational programming for those who work on and visit Maunakea and improving the interpretive experience at the Maunakea Visitor Information Station at Halepōhaku.” In Part 2: Physical Plan, it states, “The facilities at Halepōhaku are essential to UH’s ongoing astronomy program and implementation of the CMP. Those facilities contribute significantly to the achievement of UH goals and objectives.” In the UH Commitment Regarding Use of Halepōhaku, it states, “The only astronomy facility that will be proposed at Halepōhaku is the UH Hilo New Educational Telescope (NET).”

Lastly, the Kona-Kohala Chamber of Commerce strongly supports the development and future operations of the Thirty Meter Telescope (TMT). We must voice our support for this project which is permitted for Astronomy Site 13 as stated in Strategy 10 in the Master Plan. Since 2009, TMT has contributed millions of dollars to educational initiatives for Hawai‘i Island students that include The Hawai‘i Island New Knowledge (THINK) Fund, Workforce Pipeline and Akamai Internship Program. Additionally, TMT will provide 300 local and specialized construction jobs during the construction phase, and once the telescope is complete, employ 140 staff. TMT’s commitment is to fill these positions with as many Hawai‘i residents as possible and use local businesses for support services. We must acknowledge the positive educational and economic contributions of TMT for our island community.

We appreciate the opportunity to voice our support for the Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Nā Leo.

Sincerely,

Wendy J. Laros, President and CEO
Kona-Kohala Chamber of Commerce
To whom it may concern,

My name is Eric Takasugi, a resident of Kona and a supporter of astronomy and the Thirty Meter Telescope on the Big Island of Hawai‘i.

I support adoption of UH’s draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Thank you for your time.

Sincerely,
Eric Takasugi
I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea. Astronomy on Mauna Kea is our culture. Astronomy provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of world-class astronomy on Mauna Kea is vital for the economic diversification of Hawaii Island and our state as a whole.

UH needs to be involved on Mauna Kea, as UH was responsible for obtaining a permit for the construction of TMT. TMT is one of the best projects to be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Mauna Kea Observatories are situated in the best site in the world for the astronomers and the residents of our state. I mua TMT!

Mahalo for reading this, Susan Irvine, Hilo, HI
My name is Drena Rodrigues and I oppose the Master plan you have for Mauna Kea.

The first thing I heard was that it would be gated up there. Who are you trying to keep out?

After years of desecration and severe impacts on our Mauna, it is evident that the U.H should not have a say in the care of our Mauna.

It is said the plan was made by speaking with people and groups of which you mentioned several groups that the Hawaiian people have lost much faith in. To form a plan based on the opinions of these agencies who are not in alignment with what the Hawaiian people want, is a mistake and the Hawaiian people will see thought this.

It is time to walk away from the Mauna and let her heal from the negative impacts that the University and the astronomy community has done to her.

If you have not learned from Red Hill what can happen when a place is not properly managed then we are in trouble.

Mauna Kea does not belong to the UH or the Government, it belongs to the people of Hawaii and it has been proven that no one can take care of her better then the people who revere and love her.

Please leave and stop building and exploiting our sacred Mauna A Wakea

With deep sadness for what has been done to our Aina.

Drena Rodrigues

Sent from my iPhone
Testimony for UH Maunakea Master Plan

1 message

Alan Tokunaga <tokunagaa001@gmail.com> To: bor.testimony@hawaii.edu

University of Hawaii Board of Regents,

I am an Astronomer Emeritus at the UH Manoa Campus. I worked at the UH from 1980 to 2016 and have therefore seen and participated in the growth of astronomy on Maunakea from the early days. I am a former director of the NASA Infrared Telescope Facility. I was born and raised on Maui, and like many people in the islands I am saddened by the controversy of astronomy development on Maunakea. Stopping the TMT and even stopping all of astronomy in Hawaii will not resolve the underlying issues raised by the Kia‘i movement and it will not yield a better future for the next generation. I believe the proposed Master Plan is an important step toward addressing the many issues that face the University and the community. A long-term sustained push by the University is needed to realize the objectives of the plan, to address the concerns of the Kia‘i movement, and to heal the divisions in our community. No plan will please everyone, but we must move forward and I urge to BOR to adopt this plan.

Thank you for consideration of this testimony,

Alan Tokunaga
UH Astronomer Emeritus
Let TMT proceed
1 message

Suzy Lauer <lauer5090@twc.com>
To: bor.testimony@hawaii.edu

We support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and we wholeheartedly support its completion.

We hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and we are proud of their work.

Astronomy on Mauna Kea support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and we wholeheartedly support its completion. We hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and we are proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there.

Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The early Hawaiians studied and knew the skies at night. They used the skies as a tool for exploration and discovery.

Suzanne & Geoffrey Lauer
I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

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Mahalo nui loa
William Coke
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To: University of Hawai‘i Board of Regents  
From: Mary Beth Laychak  
Subject: Testimony on Proposed Master Plan for the University of Hawai‘i Maunakea Lands  
Date: December 15, 2021

As a staff member of one of the Maunakea Observatories, I am reassured to see a long range commitment to astronomy in the draft Master Plan; E Ō I Nā Leo. The Maunakea Observatories are the scientifically most productive collection of telescopes in the world and I am proud of the work that we do.

I have the privilege to represent my facility and the Maunakea Observatories (MKOs) in the community. The core values described in the Master Plan resonate with me and reflect the work that myself and others strive to do in the community. It is my opinion that the MKOs have a kuleana to the mauna and the community to respect the wahi pana that is Maunakea and share understanding of the universe gained by the telescopes with the broader community. We also have the obligation to be good neighbors, and contribute to the community we call home. Over the past 50 years, the MKOs have not always done as much as we can or should have, but we strive to do better moving forward.

Over the past decade, I have been a part of the MKOs efforts to do better, both within and outside of our traditional STEM outreach. From the start of COVID, the MKOs saw the need in our community and asked the community “how can we help?” When our community answered that critical needs were food insecurity and our keiki, we started to do the work to help. The W.M. Keck Observatory created a program called Farm to Families where they bought produce from local farmers then donated the food to local organizations in need. MKOs staff volunteer at the Hawai‘i Island Food Basket, packing and helping to distribute food across the island. I am one of the founders of Keiki Heroes, a community based program to educate and empower keiki to feel in control of their own health during COVID. Keiki Heroes is now a statewide program with materials distributed through all the major health organizations in the state. The MKOs are a critical sponsor of Keiki Heroes, supporting the program since day one.

Community engagement is a cornerstone of my work. In my experience, engagement works best when it is a two-way street: asking the community what they want and then listening to the answer. I encourage the Board of Regents and the University of Hawai‘i to truly live up to the values outlined in E Ō I Nā Leo by involving community voices— specifically Hawaiian voices. I believe the Maunakea Observatories are eager to support and willing to lead these efforts, working collaboratively with the University and our community to achieve these goals.

Thank you for the opportunity to provide testimony,
Mary Beth Laychak
Public Testimony Form - University of Hawaii Board of Regents

*Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.*

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<tr>
<th>Your Name (required) *</th>
<th>Susan Lussier</th>
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<td>Your Organization (optional)</td>
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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:Sue808@hotmail.com">Sue808@hotmail.com</a></td>
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<tr>
<td>Board of Regents Agenda Item (required) *</td>
<td>BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)</td>
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<tr>
<td>Your Position (required) *</td>
<td>Support</td>
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<tr>
<td>Your Testimony/Comments</td>
<td>I grew up in Hilo. There has always been a telescope on Mauna Kea as long as I can remember. The Hawaiians of old navigated across the Pacific Ocean by looking at the stars as well as noting birds, waves, and other navigational guides. Those ancient Hawaiians would be the first to look through the telescopes to better see into the universe. As a veteran public school teacher, I taught a solar system unit annually to my third graders. As scientists we are always asking questions and pushing for the boundaries to gain more knowledge. Our kupuna looked up for direction. We need to continue to follow their example. For the keiki, Susan Lussier Retired elementary teacher who loved science</td>
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Public Testimony Form - University of Hawaii Board of Regents

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<th>Amber Suzanne Ramsey</th>
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<td>Mermaid</td>
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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:Meherio@icloud.com">Meherio@icloud.com</a></td>
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<tr>
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<td>Your Testimony/Comments</td>
<td>Traditional Environmental Knowledge is well established as a top priority at the Academic Level as taught by Nan Greer at Kaua‘i Community College. Native Hawaiian people live in harmony with nature. To perpetuate a final crime against them as people by implementing this telescope against their plea not to will not be accepted by any Anthropologist you employ to teach at your University. It’s Unacademic. It’s RACIST against the Hawaiian people and the Hawaiian Culture. A'ole TMT. They can build telescope somewhere else.</td>
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Public Testimony Form - University of Hawaii Board of Regents

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<td>Jasmine Torres</td>
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<tr>
<td><a href="mailto:Kahelelanidreams@gmail.com">Kahelelanidreams@gmail.com</a></td>
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<td>I oppose building anymore telescopes on Maura Kea, or any other part of Hawaii.</td>
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Aloha,

Since 2005, I am native Hawaiian and have closely followed matters related to management of Maunakea, participate in numerous focus group meetings, and testified in hearings over the past two decades. As an individual who has the privilege of working in economic development, land and resource management, planning, public policy, and education, in addition to reviewing many plans, I have also personally developed comprehensive plans in these areas.

In reviewing the master plan under consideration. I find it is comprehensive, provides a framework that ensures collaborative community engagement, recognizes the diverse stakeholders and accompanying...
diverse concerns in a thoughtful, respectful, and proactive manner. Having participated in information sessions and hearing firsthand the multiple perspectives shared as the plan was being developed, the University of Hawaii clearly did I Nā Leo (Listen to the Voices) and I humbly request that the Board of Regents adopt the Master Plan for the University of Hawai‘i Maunakea Lands.

Mahalo for this opportunity to offer my comments to advocate in support of this plan.

Your Testimony (pdf or word)
No file attached
To Whom It May Concern:

I strongly support adoption of UH’s draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built.

Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Thank you for your time and consideration.

Sincerely,
Mr. & Mrs. Paul M. Trevithick
Kailua-Kona
Sent from my iPad
As a forty year resident of Hawaii, I have the utmost confidence in the management of Mauna Kea by the University of Hawaii. I have no confidence in the management by a group of activists whose sole objective is the elimination of the world’s foremost center of astronomy.

Hawaii can lead the world in precious little. We should be proud to lead it in astronomy rather than homelessness.

Gregory B. Wilson

Sent from my iPhone
Astronomy is a subject that deeply fascinates me. It is a branch of science that fosters the imagination and attempts to answer questions regarding the nature of universe. It is hard to fathom that building a collection of world-class telescopes and supporting astronomy would become such a contentious issue for the state of Hawaii.

Without TMT, it is my fear is that astronomical literacy will dramatically decline. Astronomy on Mauna Kea provides opportunities for scientific progress, education, training, technological discoveries, and ultimately, more jobs. The tourism industry has been woefully impacted by the Covid-19 pandemic and serves as a painful reminder that Hawaii needs more economic diversification. Hawaii needs to be a global leader in science and technology. It is my fervent hope that UH is doing everything in its power to ensure that TMT is built.

I whole heartedly support the building of TMT!

Thank you for your consideration in this matter!

Sherry Sutherland-Choy
Dear Sir,

As a French astronomer who has had the chance to work for many years on the Mauna Kea summit through the Canada-France-Hawaii Telescope, I want to say by my testimony how essential it is to adopt rapidly the new UH's Master Plan. It's essential for all the telescopes on the mountain, for the TMT project, for the science in Hawaii and beyond, for the science in the world. As astronomers we applaud to the perspectives open by JWST just recently launched but we know also that large ground-based telescopes as they exist on Mauna Kea and with their projects of development (case of the CFH Telescope) are fully needed to pursue large programs not feasible on a space telescope, to complete detections made in space and to start new investigations.

More particularly specialist of infrared astronomy, I have been able to fully test, to check and to use the exceptional qualities of the site in this spectral domain. The TMT by its diameter, much larger than the 6.5 m of the new space telescope, installed on the highest peak equipped with a telescope of its size, will be a unique tool for the worldwide scientific community, giving in addition to the University of Hawaii a prominent status. I have been also able to appreciate the quality of its management of the site.

Therefore, I am confident that you realize how important and capital is your decision to endorse the new UH's Master Plan for Mauna Kea.

Aloha

Jean-Pierre Maillard

--
* **************************************************
* * Dr Jean-Pierre Maillard *
* * Institut d'Astrophysique de Paris (CNRS, UPMC)*
* * 98bis Boulevard Arago, 75014 PARIS - FRANCE *
* * **************************************************
* * bureau : 48A (rdc) *
* * tel : 33(0) 14432 8139 mob: 33(0) 66040 6126 *
* * courriel : jean-pierre.maillard@iap.fr *
* **************************************************
Aloha,

I have always been so proud of the fact that Hawaiians found Hawaii by using the stars to guide them. The continuation of the study of the Universe is so important, even to those of us who call ourselves Hawaiian. Please fight to keep TMT.

Katherin Nalani Hance
808-937-3858
Aloha,

I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Makalo,
Kei Szeto
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<tr>
<td>Noelani Leonard</td>
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<tr>
<td><a href="mailto:Noelani.leonard@ymail.com">Noelani.leonard@ymail.com</a></td>
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<td>I feel that it should be completely obvious by now that this telescope should not be placed on the Mauna, we need to preserve all the natural resources we have because as we've seen on Oahu's Red Hill one wrong location can be detrimental to the lives of so many. Something like water that is a basic necessity to live should never be compromised, not even considered because no family should have to second guess the water they're using to bathe their children or prepare their meals. Everyone should be confident in the water they're provided, please do not let this become another Red Hill, we are not anti science just pro life and for so many that is what Mauna Kea is.</td>
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<td>Mahalo for you time, Noelani</td>
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Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Robert Soares

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
Fu_dog_5@yahoo.com

Board of Regents Agenda Item (required) *
BOR VI.F. Adoption of the Master Plan for the University of Hawai'i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *
Oppose

Your Testimony/Comments
Oppose construction of TMT, we have enough telescopes at the summit. Let them build it elsewhere.

Your Testimony (pdf or word)
No file attached
Greatly appreciate this opportunity to share an opinion on the E Ō I Nā Leo UH Maunakea Lands Master Plan. Thank you for creating the space, time and resources to hear diverse voices on this important topic. I share my view as a UH alumni who has faith in education as a tool for decolonizing our minds and reconnecting us to indigenous knowledge in the place we inhabit now. I have carefully read the master plan and most of the opinions shared to date via email, online form, mail and telephone and again feel the need to make it clear why I resist approval of this proposal. There are other examples of how we can do better: Aloha ʻāina.

For example Mt Fuji is an outstanding precedent for how to decommission and remove construction such as the radar dome that was thought to be productive based on anthropocentric worldview in 1964. Yet through
careful reflection and desire for UNESCO world heritage recognition the poor condition of the peak was reconsidered and a decision was made to remove the dome in 2001 and keep it in a historical museum in Yamanashi. The mountain still faces problems, but this was one big step away from desecrating the peak of a mountain held sacred in Japan that can help us work to care for other mountains we love. Mauna Kea will become a hallmark of our human capacity for reflection, correction and preservation of cultural, natural and heritage perhaps by making a visitor museum of artifacts off of the mountain at a site selected by local residents to show the lessons of the past if it the achievements of astronomy truly hold merit in the long view of time.

Through careful actions, respectful love of Mauna Kea and right speech we can build a better tomorrow. Hawai‘i is a center for stellar navigation that the rest of the world can learn much from in practice, philosophy and action. Let the rightful teachers share, educate, experience and build the frameworks needed to protect Mauna Kea and all sites that are at risk of being threatened by capitalist development in the islands today. With the overwhelming opposition to TMT and the cultural renaissance occurring among indigenous people now across the world, the limited worldview that reduces science to a Euro-American phenomena is clearly in need of expansion. Diversify science to include all perspectives and redistribute resources to the native practitioners who know local ways of not only looking, photographing and analyzing stars by empirical modes of thought but also by land-based knowledge, spiritual worldviews, ancestral wisdom and more.

Now is the perfect time to clean up the mountain and do what needs to be done to care for the Hawaiian archipelago rich culture, traditions and vision to co-create a bright future together. It is possible. No means no. Please listen to the ‘āina, listen to the clear majority of native Hawaiian people, listen to the water, listen to the plants, listen to the animals, listen to people across the world who resist the destruction of Mauna Kea, listen to the insects, listen to so many voices and do what is right. No TMT. Clean up the Mauna now. Clearly mistakes have been made and it is time to correct the wrongs now. Start deconstructing the rest of the telescopes immediately and create a stewardship that is run by a konohiki that knows the place intimately to teach others. Please do what is pono no TMT.

Thank you very much for inviting comments and for reading this message.

Your Testimony (pdf or word)

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<tr>
<td>**Your Name (required) **</td>
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<tr>
<td>Michael Jones</td>
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<td>**Your Organization (optional) **</td>
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<td>**Your e-mail address (in case we need to reach you) **</td>
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<td><a href="mailto:mdj04012015@gmail.com">mdj04012015@gmail.com</a></td>
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<td>Support</td>
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<td><strong>Your Testimony/Comments</strong></td>
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<td>I support the development of a plan for Mauna Kea that allows astronomy to continue and the TMT to be built. I can understand why many Hawaiians feel their culture has not been respected in the ways land has been used. However, it seems to me that astronomy is one of the uses that enriches us all and is consistent with Hawaiian navigation which is justifiably celebrated. We need to find a way for astronomy to proceed on Mauna Kea and to allow cultural and religious practices as well.</td>
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<th>Your Name (required) *</th>
<th>Alfred Keaka Hiona Medeiros</th>
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<td>A'OLE TMT</td>
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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:AlfredMedeiros@Gmail.Com">AlfredMedeiros@Gmail.Com</a></td>
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<td>Oppose</td>
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<td>Your Testimony/Comments</td>
<td>The only plan that should be considered, is a plan to not build TMT on our Mauna Kea. Desecration of our 'Āina for the advancement of technology and science should never be okay and if the building TMT is truly about science, then science will show why building it on Mauna Kea is not good. The further desecration of our 'Āina needs to be stopped at all levels, especially ones like TMT that will cause more harm than benefit anybody. Why look to the stars and focus on space, when we've got so much to do here on earth and in Hawai‘i. I am not against science or the advancement of technology, but I am against what will be done and what will happen to our Mauna if TMT is built, like damaging the aquifer on Moku o Keawe.</td>
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With that being said, TMT will not be built on Mauna Kea and I am one of the thousands that will give their life to fight against it by any means necessary! #AOLETMT 🧢🧢/

Your Testimony (pdf or word)

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Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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<th>Noe Bowman</th>
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<td>What happened to 1959 Hawaii protected by the U.S. Constitution Freedom of Religion, Right to Worship? Maunakea is the Mother and &quot;church&quot; for Hawaiian worship. Why should this not be under the protection of United States of America.? Still waiting for an answer. President Clinton made a very clear apology on behalf of Hawaiian lands taken illegally and illegal takeover of a viable, respected kingdom. Still waiting... Hawaiian religious freedom and right to worship is compromised. How can this happen in a United State of America?</td>
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January 19, 2022

The National Science Foundation (NSF) appreciates the opportunity to provide written testimony to the University of Hawaii Board of Regents with regards to the incorporation of NSF’s comments into a new Master Plan. As the owner of two major astronomical facilities on Maunakea, Gemini North Observatory and the Maunakea Very Long Baseline Array (VLBA) antenna, both of which are operated on our behalf by non-profit science management organizations and are the subject of sub-leases with the University of Hawai‘i, NSF has a strong interest in the effective management of the Science Reserve on the Maunakea summit. On October 25, 2021, NSF submitted comments (attached) regarding the draft Master Plan version from September 2021. NSF has reviewed the newest version (January 2022) of the Master Plan submitted for approval to the Board of Regents, and we do not feel that NSF’s comments have been sufficiently addressed.

In particular, NSF continues to oppose all references to the decommissioning of the VLBA antenna on Maunakea, and we are disappointed that the only attempt to address the comment was to add a footnote (#27) to the document. Rather than addressing the decommissioning of the facility directly, the footnote merely attempts to explain the University’s reasoning for selection without prior consultation with NSF.

Thank you, again, for the opportunity to provide comments on the draft Master Plan and follow-up testimony to the Board of Regents regarding the incorporation of those comments. In addition to expressing our concern over the continued statement that the VLBA will be decommissioned, we would like to reiterate and reinforce the importance of listening to all voices regarding the future of Maunakea.

Sincerely,

Linnea Avallone, Ph.D.  
Chief Officer for Research Facilities

Sean L. Jones, Ph.D.  
Assistant Director

Office of the Director  
Mathematical & Physical Sciences
January 19, 2022

National Science Foundation Testimony to the University of Hawaii Board of Regents

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Sincerely,

Linnea Avallone, Ph.D.  Sean L. Jones, Ph.D.
Chief Officer for Research Facilities  Assistant Director
Office of the Director  Mathematical & Physical Sciences
October 25, 2021

National Science Foundation Comment on University of Hawai‘i Draft Master Plan

The National Science Foundation (NSF) appreciates the opportunity to provide comments on the draft Master Plan prepared by the University of Hawai‘i (UH). As the owner of two major astronomical facilities on Maunakea (the Gemini North Observatory and the Maunakea Very Long Baseline Array (VLBA) antenna), both of which are operated on our behalf by non-profit science management organizations and are the subject of sub-leases with the University of Hawai‘i, NSF has a strong interest in the effective management of the Science Reserve on the Maunakea summit. Within that context, NSF recognizes the importance of protecting Maunakea’s environmental resources, respecting Native Hawaiian culture and the interests of the Native Hawaiian community, and preserving NSF’s astronomy assets on behalf of the US scientific community and our funding partners. Therefore, NSF offers the following comments on UH’s draft Master Plan:

1. NSF recognizes the need for the Native Hawaiian community to have a voice in the management of Maunakea. While there are a few references to UH’s plans to involve the Native Hawaiian community in future activities, the document does not specify what that involvement entails. Moreover, the crux of the document focuses on how UH’s mission will be carried out without discussion of how positive or negative impacts to the Native Hawaiian community will be addressed. NSF believes the document would benefit from a meaningful discussion within the final Master Plan of what these impacts are and how future governance will meet the needs and interests of the Native Hawaiian community.

2. The draft Master Plan includes several very specific guidelines that appear to be requirements (such as dome height and color restrictions, limitations on the number of telescopes within the Astronomy Precinct, locations for the siting of telescopes, etc.) without an accompanying discussion of environmental or cultural resource impacts substantiating those requirements. It is, therefore, very difficult for NSF to evaluate or determine the appropriateness of these requirements.

3. NSF notes that there does not seem to be a specific reference in the draft Master Plan to the 10% observing time that observatories on Maunakea provide to UH as a condition of their subleases. This observing time translates to millions of dollars in direct benefits to UH, and this contribution should be acknowledged, discussed, and evaluated to determine whether it should be redirected (in part or in whole) to provide a more equitable distribution of the benefits to the community, especially to Native Hawaiians.
4. NSF strongly opposes all references to the decommissioning of the VLBA antenna on Maunakea in the draft Master Plan (see, e.g., page 4-5, and 4-14: “It is known that VLBA, on Astronomy Site 14, will be decommissioned prior to the end of 2033.”). On numerous occasions, NSF has communicated to UH, both formally and informally, its position that the VLBA antenna on Maunakea should not be decommissioned because it is a valuable astronomy asset for the nation, and, by virtue of its use in maintaining the Celestial Reference Frame and measuring Earth Orientation Parameters as a contributing system for the International VLBI Service for Geodesy and Astrometry, it plays a vital role in maintaining the integrity of Global Navigation Satellite Systems, including the Global Positioning System. Additionally, this VLBA station is afforded special regulatory protections for portions of the radio spectrum at its present location (i.e., footnotes 113, 131, 161 of the United States Table of Frequency Allocations; 47 C.F.R. § 2.106).

5. The process for decommissioning of facilities set forth in Appendix D to UH’s draft Master Plan lacks sufficient detail to provide meaningful review and comment. NSF does maintain that any decommissioning process should be determined after considering input from the science community and led by the Master Lessee. NSF also notes that the Master Lessee should be cognizant of any potential conflicts of interest it may have when making determinations about which facilities to decommission.

Thank you, again, for the opportunity to provide comments on the draft Master Plan. We look forward to seeing how NSF’s comments are incorporated into the final Master Plan. If further clarity on our comments is needed, please feel free to reach out to David Boboltz, Ph.D. at dboboltz@nsf.gov.

Sincerely,

Linnea Avallone, Ph.D.  
Chief Officer for Research Facilities  
Office of the Director

Sean L. Jones, Ph.D.  
Assistant Director  
Mathematical & Physical Sciences
Please, please include TMT in your Master Plan!
TMT provide education, jobs and prestige for the Hawaiian Islands.
It brings money as well, as well as promoting opportunities for schoolchildren.
This site will work well for everyone!
Mahalo!

Meryl Abrams
I am a resident of Hawaii (Puna) and was an attendee at the demonstrations that blocked the road and halted construction of TMT in 2019.

I was an attendee for an entire day as a quiet observer and TMT supporter, not as a protester. I can state categorically that there were barely enough cars at the demonstration to fill the Walmart parking lot in Hilo. Yes, there were several hundred people present but not the ‘many thousands’ as was widely reported in the media. And frankly, it became brutally obvious that the big issue at the demonstration was Hawaiian sovereignty and secession from the USA, with TMT being merely a scapegoat and tool used to manipulate the media in pursuit of this end.

At the protest, Seminars were given by seasoned non-Hawaiian professional protesters, well read in 60s anarchist writings and the political tactics of leveraging a minority opinion into a political force via carefully orchestrated and highly visible disruption. I know this for a fact, because I attended one of the seminars. TMT was not even mentioned. The Seminar was exclusively devoted to techniques for resisting the police and making the maximum amount of disruption without being injured or creating a negative impression for the cameras. Everything in the seminar was about playing to the ‘cameras’ and the media. This has worked very well for the protesters, who are adept at these tactics and are playing to a sympathetic media.

A big problem with this issue is that the media has taken sides and has consistently presented a distorted perspective sympathetic with the protesters. The state government has meekly followed the lead of the media. In my estimate, the ‘hard core’ anti-astronomy protester community on the Big Island numbers several hundred at most, but this is sufficient to block roads and fill a camera lens, and that is deemed sufficient by the legacy media to erase astronomy from Hawaii.

Much of the argument by anti-Astronomy protesters is framed around the concept of the 'Sacred'; specifically a narrow definition of Sacred' that furthers the political agenda of anti-Astronomy and ultimately, anti-American protesters. The protesters have no monopoly on the 'Sacred' and conveniently fall to address an authentic definition of the Sacred held by ancient Hawaiians that revered the starry sky. The definition of the starry sky as sacred by ancient Hawaiians led directly to the discovery and settlement of Hawaii in ancient times. Yet this authentic definition of the Sacred has been jettisoned in favor of a recently manufactured mythos of Maunakea as a ‘sacred’ and 'untouchable site'. The cost has been discarding of the ancient tradition of star-gazing as a sacred Hawaiian cultural practice; conveniently discarded because it does not fit the entirely political narrative of the protesters.

Finally, 'Native Hawaiian' is explicitly used as a generic term to classify all who oppose Astronomy in Hawaii. There were doubtlessly native Hawaiian protesters on Maunakea in 2019, but they were outnumbered by Hawaiian ‘cultural practitioners’ who are as ‘Hawaiian’ as I am and have only the most tenuous ethnic or cultural connection to Native Hawaiians. We are led to believe that as long as a mob of such ‘Native Hawaiians’ sufficient to block a road can be organized for the cameras, Astronomy cannot be practiced in Hawaii. That assumption is cowardly and false.

The Government and People of Hawaii are being played by small group of political professionals with an Secession agenda, and destroying Astronomy in Hawaii is merely the first battle in their Long March.

Cowardice is not a form of awakened moral and ethical awareness. It is simply cowardice. Nothing good has ever come of it. Cowardice is the ideology of those who believe in nothing with sufficient conviction to defend it. It is cowardice that threatens the future of Hawaii and of the young people who would like to make a future here, instead of being given the stark choice of life of irrelevance in a Third World economy, or fleeing to the mainland..

IMUA THE SACRED STARRY SKY THAT LED PEOPLE TO HAWAII!
IMUA ASTRONOMY!
IMUA HAWAII AND ITS KEIKI!
IMUA KNOWLEDGE.

John Powers
PO Box 898
I support the TMT project

1 message

LL LL <LLeong77@hotmail.com>
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>

Aloha UH Board of Regents,

As a born and raised kamaʻāina of Hawaii, I support keeping astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). With consideration and respect to Hawaiian culture, astronomy on Mauna Kea should continue. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. TMT is one of the greatest projects to ever be developed in Hawaii and I support its completion. I hope UH is doing everything in its power to ensure TMT is built. I believe Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I would like to see work continued for future generations. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there.

Mahalo,
Lori Leong
TMT
1 message

bette green <bettejgreen@yahoo.com>
To: bor.testimony@hawaii.edu

Wed, Jan 19, 2022 at 9:47 AM

The plan looks okay and so I support it. Bette
Comments in SUPPORT of UH Mauna Kea Master Plan
1 message

Howard Hall <hhall9@icloud.com>
To: bor.testimony@hawaii.edu

Wed, Jan 19, 2022 at 10:24 AM
We commend the Mauna Kea working group for continuing the dialogue on the important issue of managing Mauna Kea. The group was given an impossible task of finding an alternative governing model for Mauna Kea that satisfies the small group of TMT protesters while also satisfying the wishes of the majority of the rest of the State of Hawaii. The reality is that UH's management of Mauna Kea has been excellent and the major management failure of late has been the State's failure to enforce the law and arrest protesters unlawfully blockading the Mauna Kea Access Road to prevent the construction of the amazing Thirty Meter Telescope project. The creation of any new governing entity will merely serve to delay TMT and the renewal of the lease that governs the telescopes which expires in 2033. This is, of course, the protesters' objective, but it is not the objective of the majority of the people on the Big Island nor of the State. We believe this new governance model proposal should be abandoned in favor of continuing UH's management under UH's new proposed plan and structure.

However, to the extent this Working Group effort continues on, we have the following comments:

1. The report currently proposes excluding the astronomy industry from having a vote in management of Mauna Kea. The telescopes on Mauna Kea and the University of Hawaii maintain the access road and provide billions of dollars in investment and jobs to our economy. At a minimum the astronomy industry deserves a vote on the management of Mauna Kea, either through the Mauna Kea Observatories group or the University of Hawaii; preferably both.

2. The report should explicitly state that if this newer plan is adopted, the protesters will agree to cease all further protest against the Thirty Meter Telescope.

3. The report seems to slip in, with very little explanation, that Mauna Kea, including the summit, will be governed under "HRS 183" and "HRS 205A". HRS 183 covers "forest reserves" and HRS 205A is for "Coastal Lands". There is no explanation for why the summit of Mauna Kea, which has no trees and is quite far from the coastline, would be governed under these statutes. The most probable reason is that the protesters know these are much more restrictive zoning classifications that could be used to completely exclude astronomy from the summit. This is obviously unacceptable. No zoning changes should be made that would endanger the astronomy industry on Mauna Kea.

4. All implication that Mauna Kea is "sacred" to all Native Hawaiians should be removed. Mauna Kea is not sacred as a Native Hawaiian matter. While some people might maintain beliefs in the kapu religion, and as part of their belief think Mauna Kea is sacred, their beliefs are not authoritative as a Native Hawaiian matter. Our ali`i abolished the kapu religion over 200 years ago and our constitution prohibits the government from establishing a religion. Thus, any mentions of sacredness must explain this nuance and explain that there are also numerous Native Hawaiians who do not think Mauna Kea is sacred, and who also think its sacredness is enhanced by the use of Mauna Kea for the ancient historical pursuit of astronomy.

5. All mention of "Mauna a Wakea" should be excised from this report. Mauna Kea is not named Mauna a Wakea and claims to the contrary are not supported by fact. This tax-payer-funded document should not continue to push this false narrative and modern fictitious construct.

In short, it would clearly be better to simply scrap this proposed plan and continue forward with the current UH management structure under UH's new master plan, especially for purposes of building TMT, and for the continued use of Mauna Kea for astronomy. It is common knowledge among all of us who live in Hawaii that King Kalakaua showed immense interest in astronomy and stated in a letter to Captain R. S Floyd that he had a desire to see an observatory established in Hawaii. And Queen Liliuokalani oft noted that "The ancient Hawaiians were astronomers". So it is fitting that the use of Mauna Kea as the world's premier astronomical observing platform is a testament to the vision of our Hawaiian heritage.

Mahalo nui loa,

Howard and Patricia Hall

Waimea, Big Island Hawaii
I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Lindy Pounds
Aloha,

Please accept my testimony for the upcoming meeting on 1/20/2022

Mahalo,

Nancy Sakamoto
UH Hilo Center for Maunakea Stewardship's Proposed Maunakea Master Plan – Support for UH Board of Regents Approval

UH Board of Regents Special Board Meeting
Thursday, December 16
via virtual meeting

Aloha University of Hawaii Regents,

I am Nancy Sakamoto, submitting supportive testimony for the approval of the Proposed Maunakea Master Plan in my capacity as an active community member, and as a tutu for my grandchildren who offer much promise as the next generation of Native Hawaiian leaders.

I have been actively involved in the Kona Kohala Chamber of Commerce, the Kailua Village Business Improvement District as an advocate for stewardship of our valuable resources here on Hawaii Island.

I’ve kept up to date on the stewardship of Maunakea, through presentations and engagement. The Center for Maunakea Stewardship, formally known as Office of Maunakea Management, has been successfully managing its lands on the mountain, implementing state policy on astronomy since 2000. Let’s remember that nearly sixty years ago, it was the State of Hawaii who wanted to develop astronomy in Hawaii. Looking towards the future, I would ask all of us to take pride in this accomplishment.

This new draft management plan takes us forward into the next few decades, ensuring good, sound management of the unique resources found on Maunakea. The balance struck in the master plan limits development that protects the resources while ensuring world class astronomy continues in Hawaii, providing inspiration for our island students. How fortunate we really are.

I support the draft and I ask you to as well.

Mahalo for allowing this opportunity to share my comments.
my comments on the draft MK master plan
1 message

Michael Hoenig <mdh@cantab.net>  
To: BOR Testimony <bor.testimony@hawaii.edu>

Dear Regents,

I fully support UH's draft Master Plan for Maunakea. UH's management of the mauna has been debated ad nauseam, and while I realize it isn't possible to please everyone, it is my belief that the university did an extremely competent job running something that is inherently difficult and complex - and I think I have spent enough days (and nights) on Maunakea to be able to state this with some authority. The Master Plan also keeps astronomy on Maunakea alive - MK observatories constitute the most scientifically productive group of telescopes in the world, and I am proud of their many achievements. Furthermore, astronomy on MK provides valuable opportunities for our keiki as well as vital jobs for the Big Island community (and helps diversify the state economy as a whole). For these reasons I also hope that UH is doing everything in its power to ensure TMT is being built.

I hope you are able to adopt this new master plan. It represents a significant step forward.

Mahalo for your time,
Michael Hoenig
I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Mahalo,

Tom Kerley

Kamuela HI
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<td>**Board of Regents Agenda Item (required) *</td>
<td>BOR VI.E. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)</td>
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The National Science Foundation (NSF) appreciates the opportunity to provide written testimony to the University of Hawaii Board of Regents with regards to the incorporation of NSF's comments into a new Master Plan. As the owner of two major astronomical facilities on Maunakea, Gemini North Observatory and the Maunakea Very Long Baseline Array (VLBA) antenna, both of which are operated on our behalf by non-profit science management organizations and are the subject of sub-leases with the University of Hawai‘i, NSF has a strong interest in the effective management of the Science Reserve on the Maunakea summit. On October 25, 2021, NSF submitted comments (attached) regarding the draft Master Plan version from...
September 2021. NSF has reviewed the newest version (January 2022) of the Master Plan submitted for approval to the Board of Regents, and we do not feel that NSF’s comments have been sufficiently addressed.

In particular, NSF continues to oppose all references to the decommissioning of the VLBA antenna on Maunakea, and we are disappointed that the only attempt to address the comment was to add a footnote (#27) to the document. Rather than addressing the decommissioning of the facility directly, the footnote merely attempts to explain the University’s reasoning for selection without prior consultation with NSF.

Thank you, again, for the opportunity to provide comments on the draft Master Plan and follow-up testimony to the Board of Regents regarding the incorporation of those comments. In addition to expressing our concern over the continued statement that the VLBA will be decommissioned, we would like to reiterate and reinforce the importance of listening to all voices regarding the future of Maunakea.

Linnea Avallone, Ph.D.
Chief Officer for Research Facilities
Office of the Director

Sean L. Jones, Ph.D.
Assistant Director
Mathematical & Physical Sciences

Your Testimony (pdf or word)

[NSF testimony to the UH BoR on the Master Plan 2022_19Jan2022.pdf](232.6 kB)
January 19, 2022

National Science Foundation Testimony to the University of Hawaii Board of Regents

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Sincerely,

Linnea Avallone, Ph.D.
Chief Officer for Research Facilities
Office of the Director

Sean L. Jones, Ph.D.
Assistant Director
Mathematical & Physical Sciences
October 25, 2021

National Science Foundation Comment on University of Hawai‘i Draft Master Plan

The National Science Foundation (NSF) appreciates the opportunity to provide comments on the draft Master Plan prepared by the University of Hawai‘i (UH). As the owner of two major astronomical facilities on Maunakea (the Gemini North Observatory and the Maunakea Very Long Baseline Array (VLBA) antenna), both of which are operated on our behalf by non-profit science management organizations and are the subject of sub-leases with the University of Hawai‘i, NSF has a strong interest in the effective management of the Science Reserve on the Maunakea summit. Within that context, NSF recognizes the importance of protecting Maunakea’s environmental resources, respecting Native Hawaiian culture and the interests of the Native Hawaiian community, and preserving NSF’s astronomy assets on behalf of the US scientific community and our funding partners. Therefore, NSF offers the following comments on UH’s draft Master Plan:

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Sincerely,

Linnea Avallone, Ph.D.  Sean L. Jones, Ph.D.
Chief Officer for Research Facilities  Assistant Director
Office of the Director  Mathematical & Physical Sciences
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Weston Yap

Your Organization (optional)
Kupunakalo

Your e-mail address (in case we need to reach you) *
wesyap@gmail.com

Board of Regents Agenda Item (required) *
BOR VI.E. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *
Oppose

Your Testimony/Comments

Dear University of Hawaii Board of Regents,

I am opposed to the construction of TMT for climate change and a new space observation alternative reasons.

I work in the field of agriculture and risk management, tracking weather trends. Due to climate change, extreme and often violent weather events will only grow in frequency. Hawaii’s archipelago is defended by the
height and mass of Mauna Kea and Mauna Loa. I want to leave as many stones in place on these guardian mountains as possible to fend off the steady train of hurricanes that will continue to come. Excavation for TMT is poor risk mitigation for climate change.

The successful launch of the James Webb Space Telescope also impacts my decision. What an incredible resource this is! No clouds, atmosphere or space junk to block the Webb’s view. TMT would be a 2nd rate observatory in comparison.

Please cut our losses with TMT and walk away from it.

Sincerely,
Weston Yap

Your Testimony (pdf or word)

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Actions

Close

Export
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *

sarah marusek

Your Organization (optional)

Your e-mail address (in case we need to reach you) *

marusek@hawaii.edu

Board of Regents Agenda Item (required) *

BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *

Support

Your Testimony/Comments

I support the building of TMT.

Your Testimony (pdf or word)

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Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Jeff Mila

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
jeffmila@pala.edu

Board of Regents Agenda Item (required) *
BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *
Oppose

Your Testimony/Comments
You have no respect for the host culture and religion and do not deserve to manage the mauna. What qualifies your organization to be managers? Half of your flagship campus was built on kuleana lands (see your history, "To Build a Rainbow," and your history of exploiting Hawaiians and Hawai‘i is disgusting. You discriminate against Hawaiians by ignoring the protests for financial exploitation because you can, not because you should. I have no respect for you now, Greg Chun.

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<td>Build the scope! It benefits all of humanity!</td>
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# Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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<th>Your Name (required) *</th>
<th>James A. Monk</th>
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<td>Your Organization (optional)</td>
<td>Monk's Delight Kona Coffee</td>
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<tr>
<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:jimmonk@alum.mit.edu">jimmonk@alum.mit.edu</a></td>
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<th>Board of Regents Agenda Item (required) *</th>
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<tr>
<td>BOR VI.E. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)</td>
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<td>I strongly support astronomy on Mauna Kea. I support the development of the TMT. I strongly dislike the inability of our government to enforce existing laws and keep the protesters at bay. They are a small minority who is trying to ruin plans that the majority of people support. Get them out of the way! Our government should obey its own laws and not kow-tow to the protesters.</td>
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Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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<tr>
<td><a href="mailto:nicholascushnie67@gmail.com">nicholascushnie67@gmail.com</a></td>
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<tr>
<td>We should move forward with the construction of the TMT. The telescope will help humans better understand the universe. This is a noble cause and the island can be proud to be a part of this effort. The telescope will also bring jobs and revenue for the island and help us diversify our economy. Mauna Kea is a big mountain and there is room enough for the telescopes and for cultural practitioners. This is a very important issue for our island. We cannot go back, we must move forward.</td>
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Thayne Currie

currie@naoj.org

BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Support

I have reviewed the revised Maunakea UH Master Plan – E O I NA Leo. This is a thoughtful document, and I strongly believe that the Board should approve the Master Plan.

I am also deeply appreciative of the fact that the Master Plan appears to be updated to reflect my prior comments about how new guidelines on observatories lessen environmental or cultural resource impacts.

I also agree with the Task Force’s other conclusions, including that it should engage in sustained outreach efforts and that it should continue to manage the MKSR -- either solely or as a major partner in a reorganized management structure – and support world-class astronomy.
I have the following additional comments on UH's past management and on the Master Plan itself, requesting some minor modifications.

Remaining Master Plan comments:

- In agreement with the National Science Foundation's comments, I reiterate my previous main request that the Native Hawaiian community have a clear voice in the management of Maunakea. They are key stakeholder if for no other reason than UH's management area includes at least some land – Lake Waiau, Pu'u Poliahu, etc. – upon which Hawaiian traditional and customary practices unquestionably occur and occurred prior to UH's role as manager of the mountain. The existence of Kahu Ku Mauna, cultural training, and a promise of deeper engagement is most welcome. But I believe the Master Plan would be improved with a discussion of how to not just consult the Hawaiian community but involve said community in the governance of Maunakea itself.

As one relatively simple modification, why not elevate Kahu Ku Mauna from an advisory group to one with some decision-making power? I agree that UH should continue as at least co-manager of Maunakea. But I also believe that vesting at least some control in the Hawaiian community would be a wise step towards a more peaceable future state on the mountain.

- Re: the UH commitments on decommissioning (Sect 4.1.2). First, it should be clearly acknowledged that the multi-observatory decommissioning steps are spurred by TMT's CDUP. i.e. TMT in exchange for multiple older telescopes. This is alluded to in Sect 4.3.2.1 but should be clearly spelled out. Furthermore, Appendix E describes that UH will receive input from other organizations – including Hawaiian organizations – on which additional telescopes would be decommissioned by 2033. I think it would be more appropriate for Hawaiian organizations to have a vote in this process, not merely be consulted. This suggestion goes back to the first comment: that the Native Hawaiian community should have a clear voice in the management of Maunakea.

I reiterate my position on UH's past management:

- I very strongly believe that the University of Hawai'i has done an exceptional job managing and protecting resources on Maunakea for at least the past decade. As the Independent Auditor's Report acknowledges, "the cultural and natural resources on the state conservation lands on Mauna Kea are some of the best managed and protected lands in the entire State. The area is clear of trash, the invasive species are being removed not only by OMKM but volunteer groups, and the OMKM Rangers to ensure public safety on Mauna Kea."

- The inventory of cultural/historical sites is exhaustive and well documented. In my years on Mauna Kea, I have seen cultural practitioners free to engage in their activities without harassment but with respect from UH. The cultural orientation program required for all Mauna Kea astronomy personnel is well presented.

- As evidenced during TMT’s most recent Contested Case Hearing, UH has done an exceptionally thorough job in documenting and protecting Mauna Kea's natural resources. Arthropod surveys are well thought out and detailed. The weiku bug population has recovered. Documentation and surveys of plant species is also well thought out.
As I said in the auditor's report, UH's stewardship of the land is a stark contrast to the poor stewardship that some TMT protesters have on the Pu’u Huluhulu encampment. UH's commitment to laws and regulations is a stark contrast to lackadaisical attitude from state and county law enforcement. Furthermore, mistakes that are often attributed to UH instead lie at the feet of the state itself. For example, it was the state that has allowed protesters to damage planets and scatter plants at the MK Access Road. It was the state that refused to prosecute Palikapu Dedman's disinterment of remains and placement of bones on the TMT site in an act of protest and against state law.

My Background:

- I have gone to Mauna Kea for the past 14 years for astronomical observations and thus have seen the state of the mountain prior to the completion of the CMP, during the early years of its implementation, and up to recent times.

- I have not shied away from pointed and public criticism of UH or the Institute for Astronomy in other contexts. For example, as an interviewee for EnVision Mauna Kea I expressed extreme frustration and anger at IfA for "a lack of courage" in direct and frank discussions with some TMT opposition leaders in order to have a future where the telescope is built on Mauna Kea in the most peaceful way possible. While I am strongly encouraged by the new leadership at IfA, I remain extremely concerned about the lack of engagement by IfA faculty in general.

Your Testimony (pdf or word)

No file attached

Actions

Close

Export
Aloha,
Please adopt the UH master plan draft for Mauna Kea! The people of Hawaii overwhelmingly support astronomy on Mauna Kea and think UH has done a good job of managing the observatories. The Thirty Meter telescope is an important part of the plan and needs to be built for so many reasons.
Mahalo for your consideration,
Jay R. Lambert
Please support adoption of University of Hawaii's draft Master Plan. Let us all move forward to a better future.

1 message

Stan Clingan <stancligan@yahoo.com>
To: "bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu>

Wed, Jan 19, 2022 at 2:51 PM

I would like all people of Hawaii to support the science of astronomy. Let us all learn the secrets of the universe. Please support adoption of University of Hawaii's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). I hope all can one day see how important this is. Thank you.

UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!
Aloha,

I am writing to show my full support for astronomy on Mauna Kea, and my full support for the TMT. Not only is it good for the world it is extremely beneficial to the folks and keiki throughout the islands. I personally benefit financially through the trickle-down effect of having astronomy on the mountain and my kids have benefited directly in their education because of astronomy on Mauna Kea.

Thank you for your attention,

Morgan Ray
KAHEA testimony on Agenda Item VI.F
1 message

Bianca Isaki <bianca@kahea.org>
To: bor.testimony@hawaii.edu

Please find attached KAHEA's testimony on Agenda Item VI.F for the Board's meeting on January 20, 2022. Thank you!

--
Bianca Isaki, Ph.D., Esq.
KAHEA: The Hawaiian-Environmental Alliance
808.927.5606

2022.01.20 KAHEA BOR testimony E O Ka Leo.pdf
707K
January 19, 2022

To: The Board of Regents, University of Hawai‘i
   bor.testimony@hawaii.edu

Re: Testimony against agenda item VI.F, recommendation to approve the Master Plan for the University of Hawai‘i Maunakea Lands at the Board’s January 20, 2022 meeting

To the Board of Regents,

KAHEA: The Hawaiian-Environmental Alliance (KAHEA), like hundreds of the commenters, strongly opposes the Center for Maunakea Stewardship’s (CMS) recommendation that the Board adopt the Master Plan for the University of Hawai‘i Maunakea Lands - E Ō I Nā Leo (Listen to the Voices), dated January 11, 2022 (master plan). KAHEA is a nonprofit organization with a mission and programming that includes protection of Mauna Kea’s natural and historic resources and the cultural practices that they support.

The master plan is an unlawful rule

CMS concedes there is no rule or law governing the Board’s adoption of the master plan. Item VI.F (CMS recommendation at 2¶D, dated Jan. 13, 2022). Yet, the master plan will guide siting of new facilities, changes to existing facilities that will cause permanent changes to the land, and UH decisions regarding which astronomy sites will remain operational. Master plan §2.1. “It consolidates and clarifies UH’s use and development policies for the subject lands and is intended to guide UH’s decision-making related to them over a 20-year period.” Id.

The master plan is thus a “statement of general or particular applicability and future effect that implements, interprets, or prescribes law or policy, or describes the organization, procedure, or practice requirements of any agency.” Hawai‘i Revised Statutes (HRS) §91-1. It does not concern only the internal management of the University and the actions it guides will affect the private rights of and procedures available to the public. Id. The Board is required to promulgate the master plan as a rule pursuant to all of the procedures under HRS §91-3. Because these procedures have not been followed, the Board cannot adopt the master plan without violating administrative procedure.

No environmental review for the master plan

The University prepared an environmental impact statement for its previous 2000 master plan, yet no such documents were prepared for the master plan. Environmental impact disclosure documents are required for programs or projects using state lands or funds that require discretionary
consent from an agency.

The new EIS rules define a "project" as "discrete, planned undertaking that is site and time specific, has a specific goal or purpose, and has potential impact to the environment." HAR §11-200.1-2. There is a "purpose" section in the master plan: The new plan guides siting of new facilities, changes to existing facilities that will cause permanent changes to the land, and UH decisions regarding which astronomy sites will remain operational. Master plan §2.1. "It consolidates and clarifies UH’s use and development policies for the subject lands and is intended to guide UH’s decision-making related to them over a 20-year period.” "Discretionary consent" is broadly defined as "a consent, sanction, or recommendation from an agency for which judgment and free will may be exercised by the issuing agency, as distinguished from a ministerial consent." HRS 343-2. The Board’s "adoption" of the master plan is discretionary consent that must be informed by environmental disclosure documents.

The master planning process discourages public participation.

The most urgent and repeated comments were: (1) remove astronomy facilities and restore Mauna Kea to its original state before the University lease ends in 2033; and (2) cancel the TMT. No revisions were made to the master plan in response to these comments.

Part of our mission is to educate and organize our community to advocate for their interests. We ask people to take time away from their family, friends, and work in order to make their voices, individually and collectively, heard as part of public processes. The biggest challenge is the perception that people will become statistics used to validate a predetermined outcome that they sought to oppose. CMS’ recommendation confirms this perception. Again. Community members’ participation is supposedly reflected in a tally of their receipt of 596 emails and 245 mailed letters, listed to support your adoption of the plan. How can we continue to urge people to engage in such a process? This flawed process frustrates our mission and the University’s purpose of serving its community.

Thank you for considering our comment.

Yours truly,
Board and Staff 2022, KAHEA: The Hawaiian Environmental Alliance
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Chase Benbow

Your Organization (optional)
University of Hawaii

Your e-mail address (in case we need to reach you) *
benbow@hawaii.edu

Board of Regents Agenda Item (required) *
BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *
Oppose

Your Testimony/Comments

There is no doubt that Maunakea remains an important site in Western astronomy. The proposed master plan for managing Maunakea places astronomy as its central component. For almost a decade, the proposed Thirty Meter Telescope has been a priority of the upper strata of the University of Hawai‘i, the state government, and other scientific agencies. However, the University’s continued support of the project, along with its historical mismanagement of Maunakea's summit, demonstrates the University's inability to reckon with its complicated relationship with the Native Hawaiian community, whose ancestral homeland the proposed telescope would sit on. As a Hawai‘i Island resident and student at both UH Hilo and UH Manoa, I strongly oppose the current proposed plan. The University of Hawai‘i has produced some of the most
important activists in Hawai‘i’s history, yet the University has failed to understand or listen to the concerns of its students, faculty, and greater community in which it serves. As long as money and scientific prestige come before the preservation of one of Hawai‘i’s most sacred and storied places, UH will not be a steward of its community, but an accomplice in the continued occupation and extraction of Hawaiian lands. I hope that the University makes the right decision and decommits to future telescope projects on Maunakea and supports placing the responsibility and stewardship of the Hawaiian community. After all, they have centuries of experience in preserving, protecting, and respecting the land.
**Public Testimony Form - University of Hawaii Board of Regents**

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<td>How is this still a thing? How do you fail to respect the native culture, the Hawaiian people, the environment and the watershed beneath it? The people of this LAND have spoken time and time again.. when will you start to listen and respect? Hawaiian place of learning my elemu. Do the right thing already. Bumbye you learns</td>
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# Public Testimony Form - University of Hawaii Board of Regents

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<td>As an alumni of the University, I support the adoption of the Master Plan to the extent that it continues to recognize Hawaii’s status as one of the preeminent locations for cutting edge astronomy in the world. Studying the stars gives us crucial insights to life on Earth and plumbs the mysteries of the Universe, for the collective benefit of the citizens of the State of Hawaii and our fellow humans. Please ensure that astronomy continues to have a strong presence in Hawaii.</td>
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The Graduate Student Organization ("GSO") of the University of Hawai‘i at Mānoa OPPOSES the Board of Regents’ ("BOR") adoption of the Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Nā Leo (Listen to the Voices) ("Master Plan"). We support the comments submitted by KAHEA: The Hawaiian-Environmental Alliance to the State of Hawai‘i Legislature on the Mauna Kea Working Group’s ("Working Group") Draft Report, “He Lā Hou Kēia Ma Mauna a Wākea: A New Day on Mauna A Wakea,” dated December 17, 2021 ("Draft Report"), ("KAHEA Comments").
We support KAHEA’s opposition to the recommendations presented in the Draft Report. KAHEA notes that the Draft Report “unilaterally entrusts a new Governing Entity to ensure these are implemented in a timely and meaningful way,” (KAHEA Comments). “Management and governance of Mauna Kea must proceed from a truly community-based process that builds trust amongst people who have shown their commitment to protecting the mauna, which includes many more than those who served on the Working Group,” (KAHEA Comments). We agree with KAHEA that “the Working Group should demand compliance with traditional kānāwai—no further development on Mauna Kea,” (KAHEA Comments).

We agree with KAHEA that the “Working Group [should] deeply revise its recommendations to include: (1) significant, meaningful, and broad based community input prior to the introduction of any legislation; (2) removing the governor’s power of appointment of nearly all the members of the Governing Entity; and, (3) honoring the traditional kānāwai by, first and foremost, prohibiting any further construction—including the Thirty-Meter Telescope—on Mauna Kea,” (KAHEA Comments).

We ask the BOR to vote “no” to adoption of the Master Plan for the University of Hawai‘i Maunakea Lands, E Ō I Nā Leo (Listen to the Voices).

Sincerely,
Graduate Student Organization
University of Hawai‘i at Mānoa

Your Testimony (pdf or word)

22.01.13 GSO Testimony to BOR OPPOSING Adoption of Master Plan for Maunakea Lands.pdf (369.6 kB)
January 13, 2022

TO: Randolph Moore, Chair  
University of Hawai'i Board of Regents

CC: David Lassner, CEO and President  
University of Hawai'i System

Michael Bruno, Provost  
University of Hawai'i at Mānoa

FROM: Sara Maaria Saastamoinen, Academic Affairs Chair  
Alena Shalaby, Advocacy Chair  
Shannon McClish, Sustainability Chair

Together on behalf of the University of Hawai'i at Mānoa Graduate Student Organization

RE: University of Hawai'i at Mānoa Graduate Student Organization Testimony Opposing the Board of Regents’ Adoption of the Master Plan for the University of Hawai'i Maunakea Lands, E Ō I Nā Leo (Listen to the Voices)

The Graduate Student Organization ("GSO") of the University of Hawai'i at Mānoa OPPOSES the Board of Regents’ ("BOR") adoption of the Master Plan for the University of Hawai'i Maunakea Lands, E Ō I Nā Leo (Listen to the Voices) ("Master Plan"). We support the comments submitted by KAHEA: The Hawaiian-Environmental Alliance to the State of Hawai'i Legislature on the Mauna Kea Working Group’s ("Working Group") Draft Report, “He Lā Hou Kēia Ma Mauna a Wākea: A New Day on Mauna A Wakea,” dated December 17, 2021 ("Draft Report"), ("KAHEA Comments").

We support KAHEA’s opposition to the recommendations presented in the Draft Report. KAHEA notes that the Draft Report "unilaterally entrusts a new Governing Entity to ensure these are implemented in a timely and meaningful way," (KAHEA Comments). “Management and governance of Mauna Kea must proceed from a truly community-based process that builds trust amongst people who have shown their commitment to protecting the mauna, which includes many more than those who served on the Working Group,” (KAHEA Comments). We agree with KAHEA that “the Working Group should demand compliance with traditional kānāwai—no further development on Mauna Kea,” (KAHEA Comments).

We agree with KAHEA that the “Working Group [should] deeply revise its recommendations to include: (1) significant, meaningful, and broad based community input prior to the introduction of any legislation; (2) removing the governor’s power of appointment of nearly all the members of the Governing Entity; and, (3) honoring the traditional kānāwai by, first and foremost, prohibiting any further construction—including the Thirty-Meter Telescope—on Mauna Kea,” (KAHEA Comments).

We ask the BOR to vote "no" to adoption of the Master Plan for the University of Hawai'i Maunakea Lands, E Ō I Nā Leo (Listen to the Voices).

Sincerely,  
Graduate Student Organization  
University of Hawai'i at Mānoa
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Naomi Silva

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
Silva.naomi58@gmail.com

Board of Regents Agenda Item (required) *
BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo
(Listen to the Voices)

Your Position (required) *
Oppose

Your Testimony/Comments

It is rather distressing, given the overwhelmingly strong opposition from the Native Hawaiian community, that the University of Hawaii Board of Regents continue to push the agenda for construction of the TMT atop Maunakea. The individuals that make up the UH Board of Regents are not qualified to serve in the compacity of konohiki. The kuleana of the konohiki is to act in the best interest, and make decisions that best serve the health of āina and her precious natural resources as well as the community. If the konohiki fails at his duty he is ousted, and another is appointed in his place. We don't care for your claims that TMT will boost the economy by providing jobs to locals. That is a falsehood used almost everytime to garner local support. Yet it is becoming more common for residents to be deemed under qualified and individuals contracted from the continent. The alteration of our natural world should be done with the utmost care, reverence, and respect. I don't need to tell
you what you already know. TMT will have devastating impacts on Maunakea, the community, the Pae 'āina. I implore you to think beyond money and profit. Never forget our place in the scheme of the universe. "He ali'i ka 'āina, he kauwa ke kānaka." The land is chief, the man but a servant. 'A'OLE TMT!

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Actions

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- Export
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Janelle Naone

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
janelle.naone@gmail.com

Board of Regents Agenda Item (required) *
BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *
Oppose

Your Testimony/Comments

The University acts as though their soon to expire lease of the lands on Maunakea is guaranteed to be renewed. And so you have a 20 year plan. The University has over and over again been proven to be bad at land management and should no longer have the privilege to use these lands. I say NO to any extended lease and NO to the proposed TMT that has divided our lahui. When will our government and leaders ever start to work for US instead of the interests of outsiders?

Your Testimony (pdf or word)
No file attached
Larry Wiss <aloha-larry@hawaii.rr.com>  
To: bor.testimony@hawaii.edu  

I support the ongoing presence/research of Astronomy by UH atop Mauna Kea; I believe the TMT is vital to this important educational resource for Hawaii.

Aloha,
Larry Wiss
I Support TMT and Adoption of UH's Draft Master Plan for Mauna Kea

I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kīlo Hōkū and i mua TMT!

Sent from Yahoo Mail on Android
Mauna Kea master plan
1 message

Susan Roberts <rsrwoodwrights@gmail.com> Wed, Jan 19, 2022 at 8:31 PM
To: bor.testimony@hawaii.edu

We support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and we wholeheartedly support its completion. We hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and we are proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. Imua Kilo Hōkū and i mua TMT!

Dick and Sue Roberts, Kailua Kona
I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

Dr John Britton

Sent from my iPhone
### Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:mcleodj003@hawaii.rr.com">mcleodj003@hawaii.rr.com</a></td>
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<td>BOR VI.F. Adoption of the Master Plan for the University of Hawaiʻi Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)</td>
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<tr>
<td>Your Position (required) *</td>
<td>Oppose</td>
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<tr>
<td>Your Testimony/Comments</td>
<td>The Mauna is held in trust &amp; is not the university's to oversee.</td>
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Your Testimony (pdf or word)

No file attached
A master plan with more telescopes and more desecration of the most sacred land of Native Hawaiians must not be approved. Over 1000 comments were submitted in opposition to the master plan. Is there any part of Hawai‘i that we can leave for our future generations? It is unbelievable the hatred that you must hold towards Kanaka Maoli to seriously advance a plan that would build more telescopes, including the TMT, and erect a gate to keep Hawaiians out. From the military poisoning our waters to this “Hawaiian place of learning” destroying the foundation of life culture - the level of disrespect of our ‘Āina is just off the charts. A‘ole TMT. No more telescopes. Take care of this ‘Āina before you look to the stars.
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:phrbrown@gmail.com">phrbrown@gmail.com</a></td>
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<tr>
<td>Your Position (required) *</td>
<td>Oppose</td>
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| Your Testimony/Comments                   | I oppose the UH master plan, which prioritizes the construction of the Thirty-Meter Telescope. In case you weren't listening to our voices when we stood on the frontline in the thousands to oppose this telescope, no means no. Listen to the native people. This is a human rights issue. We already put our lives and bodies on the line to stop this telescope. We endured freezing cold weather for over 8 months to demonstrate our opposition. Listen to this - A‘ole! A master plan with more telescopes and more desecration of the most sacred land of Native Hawaiians must not be approved. Over 1000 comments were submitted in opposition to the master plan because it includes TMT. Is there any part of Hawai‘i that we can leave for our future generations? It is unbelievable the hatred that you must hold towards Kanaka Maoli to seriously advance a plan that would build more telescopes, including the TMT, and erect a gate to keep Hawaiians out. From the military poisoning our
waters to this “Hawaiian place of learning” destroying the foundation of life culture - the level of disrespect of our ʻĀina is just off the charts. Aʻole TMT. No more telescopes. Take care of this ʻĀina before you look to the stars.

Your Testimony (pdf or word)
No file attached
### Public Testimony Form - University of Hawaii Board of Regents

*Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.*

<table>
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<th>**Your Name (required) ***</th>
<th>Steve Loo</th>
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<td>**Your e-mail address (in case we need to reach you) ***</td>
<td><a href="mailto:Sloo@blacksandjazz.com">Sloo@blacksandjazz.com</a></td>
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<td>**Your Position (required) ***</td>
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<td><strong>Your Testimony/Comments</strong></td>
<td>This is not for the University of Hawaii to decide. These are public lands. Also, the consultation with native Hawaiians was not broad enough as these are the people of these lands.</td>
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<td><strong>Public Testimony Form - University of Hawaii Board of Regents</strong></td>
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<td>I am a concerned citizen from Ohlone land. I respectfully ask that the master plan be rejected. The human rights violations against Indigenous land protectors are unacceptable. Respected elders of Hawai‘i are still being dragged through court, and the resumption of construction would be devastating to many who could be injured, arrested or worse in what would surely be a dangerous and heartbreaking standoff, simply to protect the land they love. The Mauna Kea Master Plan is deeply flawed in many ways. It does not respect the wishes of the vast majority of the Indigenous cultural practitioners of that place. It proposes to block their access with gates. It proposes further construction on Mauna Kea, which Kanaka Maoli have not consented to in any way. It proposes perpetual stewardship by the University of Hawai‘i, with no plan of ever returning this sacred mountain to the rightful owners of the Crown Lands upon which UH’s Science Reserve sits. The University of Hawai‘i needs to...</td>
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listen to the actual voices of the people of this land, who have been speaking clearly for a long time. Please reject the Mauna Kea Master Plan, stop TMT, and begin the long but worthwhile process of true healing, so that the University of Hawai‘i may be a place of genuine learning. Please do the right thing.

Your Testimony (pdf or word)

No file attached
I am Kaiqing Su, an international student at UH. I acknowledge that I stand on kanaka land, and I owe my knowledge on the subject to the generous conversations with generous kanaka maoli scholars, students, and friends. I oppose the construction of TMT. Firstly, this is not a matter of science but desecration; secondly, to really respect what many acknowledged as sacred and native Hawaiian culture is to understand that there are places that are just not accessible to everyone—in the past, only ali‘i ascended to the summit. It’s not about coexistence between TMT and kanaka, but the recognition of human limit, and sincere humbleness on the subject, especially people who don’t have enough indigenous knowledge, like myself. Thirdly, regarding the benefit of the “whole human race,” since the past constructions have already impacted the ecosystem, the opposition of the plan will do us more good—when a climate catastrophe hits, when sea level rises, when other...
extreme weathers take place, telescopes can't save us. Please don't exploit the aina in the name of science, progress, or truth. I oppose the master plan and I stand in solidarity with kia'i mauna.

Your Testimony (pdf or word)
No file attached
Public Testimony Form - University of Hawaii Board of Regents

*Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.*

**Your Name (required)***
Keith Kikuchi

**Your Organization (optional)**

**Your e-mail address (in case we need to reach you)***
KeithKikuchi@gmail.com

**Board of Regents Agenda Item (required)***
BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

**Your Position (required)***
Support

**Your Testimony/Comments**
I am a Hawaii-born and raised alumni of UH (B.S. 1978, M.S. 1981), and a current resident of the Islands. I am not Kanaka Ma‘oli, however, my family has been residents of Hawaii for over 100 years, and I feel that the voices of other long-term “natives” of the Islands should be heard, along with the voices of all Kanaka Ma‘oli. As an avid supporter of astronomy on Mauna Kea, including the Thirty Meter Telescope, I support the adoption of the UH Draft Master Plan for Mauna Kea. At this time, with all that is happening in our society, science has become increasingly important. And while I have a deep spiritual belief, I also deeply value what science has brought to mankind – and more recently, how science and spirituality are now entwined, with the insights provided by quantum physics. Those who claim that placing another telescope (TMT) near the summit would
desecrate a sacred space truly do NOT understand authentic spirituality, and are mis-using others’ support for
native cultures.
Mahalo nui for all of your effort. Imua TMT!

Your Testimony (pdf or word)
No file attached
As a Big Island resident, I fully support and embrace the use of Mauna Kea and the islands in general for all astronomy endeavors. Hawaiian history and culture is rooted in its people being curious about their surroundings, and its people are well known for being great explorers of all things unknown. To honor their legacy and to guarantee them a future, it is imperative that the University of Hawaii and the State of Hawaii continue to embrace the world of astronomy in our islands and especially atop Mauna Kea.
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Morgan Timeche

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
mtimecheCTO@gmail.com

Board of Regents Agenda Item (required) *
BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ī Nā Leo (Listen to the Voices)

Your Position (required) *
Oppose

Your Testimony/Comments
I oppose the UH DRAFT Master Plan of Mauna Kea Lands. I have given written comment in opposition to the Draft Master Plan and am here today, thousands of miles away from Hawaii as a Hopi woman standing in solidarity with Kanaka Maoli when they say A'ole to the 50 years of mismanagement on Mauna Kea at the hands of the UH and A'ole to the thirty meter telescope proposed to be constructed at Mauna Kea. It is 2022 and the UH blatantly chooses to continue & to participate in settler colonial capitalism by placing themselves as "stewards" to Kanaka Maoli sacred lands and supporting the construction of the Thirty Meter Telescope which has been recently dubbed by scholars as a "Big Money Science Project" Mauna Kea itself has never been ceded by the Hawaiian Kingdom's government to the U.S. government. Again, it is 2022, return the land & rightful stewardship to Kanaka Maoli and allow healing and true stewardship of the land happen. When
looking for answers to the future, look to the past. The UH has the power to correct their predecessors' wrongs by completely decommissioning the current telescopes on Mauna Kea and returning the land back to its original state of being & returning the real stewardship to Kanaka Maoli. Kia'i come in numbers to hold the UH and UC accountable for their actions and in Kapu Aloha in the honor of Aloha Aina and I stand with them.
Public Testimony Form - University of Hawaii Board of Regents

Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Kevin Jim

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
kjim@kjimaging.com

Board of Regents Agenda Item (required) *
BOR VI.E. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *
Support

Your Testimony/Comments

I strongly support the adoption of the UH draft Master Plan for Maunakea. I have spent over a year of my life on the summit of Maunakea as a student and graduate of the Institute for Astronomy Ph.D. program. I have spoken with hundreds of visitors on the summit, and I saw them all experience the joy of seeing the amazing views of the stars from the summit. They expressed their wonder at the amazing discoveries in astronomy made in Hawaii. Thanks to UH, which created the opportunity and infrastructure that enabled some of the greatest scientific investigations of human history. Many of the celestial bodies of the outer solar system have Hawaiian names, as does the largest known structure in the Universe. Most of the newly discovered asteroids in our solar system are first seen by telescopes in Hawaii. All because Maunakea and Hawaii have
been at the forefront of science, and only because UH made that possible. No other organization will put science first, and we have seen how the management of other lands in Hawaii by other government agencies have failed.

I do not support the removal of any telescopes from the mountain; this is a decision that must be reversed. Those sites are far too scientifically productive to be let go. If you accept that astronomy is a critical endeavor for Hawaii, removing any telescopes makes little sense. It will not appease the protestors, who will be satisfied only by removing all telescopes.

There are many keiki in our state who dream of being part of astronomy in Hawaii. I was one of them, and I was one of the lucky ones who was able to realize his childhood dreams. Removing UH from managing Maunakea is the first step in ending astronomy in all of Hawaii. That is clearly the goal of the protestors. Ending astronomy in Hawaii will crush the aspirations of so many young people in Hawaii. It will end a source of high paying jobs in economically challenged areas. It will end an economic engine with a much lower land impact than tourism. It will destroy the most prominent academic program at UH. It will end the jobs of the hundreds of people who support Maunakea research.

Maunakea, the very best astronomical site on the entire planet by far, needs to continue to be the inspiration and the leading source of knowledge of the Universe for all of humanity. You must not accept the arguments of protestors who want to keep Maunakea from continuing to be a point of great pride for all the people of Hawaii.

Mahalo for your consideration.
Aloha. Attached is my testimony opposing the BOR agenda items VIF and VIG.

--
“education either functions as an instrument which is used to facilitate integration of the younger generation into the logic of the present system and bring about conformity or it becomes the practice of freedom, the means by which men and women deal critically and creatively with reality and discover how to participate in the transformation of their world.” - Paulo Freire
Testimony Opposing the
University of Hawaiʻi Board of Regents Actions Relating to
Agenda Item VIF & VIG.

January 20, 2022

Sent Via Email Attachment to bor.testimony@hawaii.edu

TO: The University of Hawaiʻi Board of Regents
2444 Dole Street, Bachman 209

FR: Kekailoa Perry

I am Kekailoa Perry, a citizen of the Hawaiian Kingdom and Associate Professor at the University of Hawaiʻi at Mānoa. My testimony opposes all BOR action relating to agenda item VIF entitled “Approval of Maunakea Management Restructuring Plan” and item VIG entitled “Comprehensive Plan to Achieve a Reimagined University of Hawaiʻi.”

1. The PIG recommended management plan for Maunakea is a grotesque document of barbarism that is set on a foundation of cultural misappropriation and the degradation of trust lands that are protected under Article XII and Article XI of the State of Hawaiʻi Constitution (to name just a few laws).

2. The PIG recommended management plan for Maunakea shamelessly misappropriates Hawaiian knowledge and culture to further an agenda that celebrates neo-colonial forms of manifest destiny. The University uses science and claims of social benefits to disguise a more supremacist form of hegemony. Those concepts are subversive and help to hide the University’s real acts of trespassing and abuse of native trust lands.

3. Contrary to the circular and misleading political and legal rhetorical extrapolations of the University and State of Hawaiʻi, both institutions have consistently violated their own constitutional and trust responsibilities. Specifically, the University and State have willingly and forcefully undercut the traditional and customary rights of native Hawaiians.

4. Approving the PIG’s recommended management plan will signal to the Hawaiian community -- and those who cherish fairness and justice -- that the University truly does not care about our communities. Worse, it will signal that the BOR and University administration intentionally seeks to harm past, present and future generations of kanaka ‘oiwi and kanaka ‘oiaiʻo.

5. Item VI.G. suggests that the University will make attempts to reimagine itself. Having no documentation or materials to review, it seems that the UH’s reimagining will materialize from thin air. Should any of the documents appear in time for the meeting, it would be in the best interest of all rights holders for the BOR to table the item. Moreover, if the document has any reference to aloha ʻāina or other concepts and language relating to Hawaiian knowledge, then the document should be tabled indefinitely for lack of cultural respect and for an overtly racist level of imagination.

To be clear, I stand with families, colleagues and rights holders who continue to oppose every effort by the BOR and University from pursuing its institutionally racist degredation of Hawaiian lands, culture and people. We are not defined by loud voices or the numbers in our community; we are known by our faith in our ancestors and our willingness to speak truth to power. How will your actions define you?
In support of TMT

Eric Hagiwara <eric.hagiwara@k12.hi.us>  Thu, Jan 20, 2022 at 6:46 AM
To: bor.testimony@hawaii.edu

In support of TMT:

TMT has already donated millions towards Hawaii county Education. Our Waiakea High Robotics program is one of those long time recipients of their generosity. We on the Big Island have much more difficulty in getting funding than schools on the Island of Oahu. One Chevron official told me that their funding set aside for education has a priority going towards schools that their employee’s children go to. We don’t have any large industry here. TMT and Helco are the largest sources of Educational funding we can tap. Taking TMT away would negatively impact Hawaii Island’s Education opportunities.

We have, just at Waiakea, many graduates who are working as Engineers, Computer Engineers, Cyber Security and other IT jobs because of funding from TMT. Please support TMT

Eric Hagiwara, Med  
Waiakea High School Robotics

This is a staff email account managed by Hawaii Department Of Education School District. This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the sender.
Education of universes is longevity

1 message

Bert Yamamoto <bertsat@icloud.com>  Thu, Jan 20, 2022 at 6:52 AM
To: bor.testimony@hawaii.edu

Education of the universe is similar to the knowledge of our physical body, its health and longevity. From cave man times till now,
Man has adopted ultimate longevity with association knowledge of earth of truth(proven science)and the universe. Small proof is that as we get older with knowledge of good health, the older with knowledge, is healthier compared to his youthful year when he was not as learned. Mind elements of memory of knowledge is remembered as we can recall love memories moments in older people more. This means as we get older we see things more beautiful with education in years than when your younger. The reason is that when, young only little substance of knowledge is in that person. Younger ones can offset this by learning, studying; but as they get older their eye will see more beauty from increase knowledge, so much they may weep, more for what their eyes see.

Sent from my iPhone
HAWAIIANS OWN MAUNA KEA!! ACTUALLY MARY ANN GONZALEZ HAS A DEED FOR MAUNA KEA, HER RELATIVES NOW HOLD THE DEED. SHE ALSO OWNED THE AINA / LAND UH SITS ON! TAKEN AWAY BY FORCE.
Richard Ha <richard@hamakuasprings.com>
To: bor.testimony@hawaii.edu
Thu, Jan 20, 2022 at 7:30 AM

Aloha Board of Regents

Our group Sustainable Energy Hawaii supports the draft Master plan the UH proposes.

The members of our 501 C3 non profit are;

*Richard Ha Pres
Noel Morin. Vice President
Peter Sternlicht. Treasurer
Jerry Chang
Dave DeLuz
*Kanani Aton
*Desmon Haumea

*Three of our members are very culturally aware.

Aloha
Richard Ha jr.
Aloha,

I'm writing in against the plan that is being brought again to our attention. It's been 54 years, since the University, the State, the BOR, and Dlnr had their time to Manage the Mauna. You all need to step down, step back and let the people talk n manage our Mauna and Islands

"Listen to the Voices" is your entities motto, it's a hypocritical statement that's being made, when the people are Speaking Out Loud, of their concerns, that again is falling upon deaf ears.

Please reconsider these choices that you all are making for the people of Hawaii, and concentrate on what is needed down here on our islands. Homelessness, drug addiction, our Keiki on Islands falling wayside.

You all know that it's the destination and Aloha what brings the world to Hawaii and Not the Telescope that only a few "chosen"people that Benefits from it, being educational.

These entities should know that all those Telescopes up there is sitting on the Main Aquifers of Hawaii Island. Shame on all of you, to think that you and you alone have the right to the People's Crown Lands.

Mahalo for taking the time to read our letter of our deep concerns.

Mahalo and Aloha,
Laurie Avilla and Ohana
Kauai, Hawaii
Sent from my iPad
Testimony against TMT.

1 message

Nanea Lo <nanealo@gmail.com>  Thu, Jan 20, 2022 at 8:16 AM
To: bor.testimony@hawaii.edu

Hello,

My name is Nanea Lo a former Alumni and Kanaka Maoli (Native Hawaiian). I’m writing for the agenda item for the Thirty Meter Telescope development and to say that I am against everything and all development regarding this telescope.

Me ke aloha ‘āina,

--

Nanea Lo
Phone: (808)454-3504
Email: nanealo@gmail.com
www.nanealo.com

Strategist Manager
Native Stories
Search “Native Stories” for our podcast
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Website: www.nativestories.org
Facebook: https://www.facebook.com/ournativestories/
Instagram: https://www.instagram.com/ournativestories/
Youtube: https://www.youtube.com/channel/UCPZFv2ja8Dn6AreTWcQ7m-g

Some people say that Hawai’i will be a better place when Hawaiians no longer stand in the way of progress. But even these people must know that at this point, this will no longer be Hawai’i.- Jonathan Kay Kamakawiwo’ole Osorio. The Value of Hawai’i
Regarding the thirty meter telescope
1 message

Hawaiian Libra <kauwilamahina@gmail.com> Thu, Jan 20, 2022 at 8:31 AM
To: bor.testimony@hawaii.edu

Aloha nō e Ke Kula Nui O Hawaiʻi, Board of Regents,

My name is Kaylene Kauwila Sheldon and I am writing to you in regards to the construction of the Thirty Meter Telescope (TMT) on Mauna Kea and about your proposed lease renewal. I am also a Native Hawaiian grandmother and my ancestral ties come from Hawaii island known as the Keaunui clan who were long time allies, close advisors and relatives of the Kamehameha lineage.

There are significant ecosystems and archaeological/anthropological value on Maunakea. It is also a place of the wao akua, the most sacred space in Hawaii.

I wanted my moʻopuna to follow the traditions of placing piko at Waiau however because of the trauma and desecration, I could not follow the traditional protocol. The building of the telescope would deviate from the sacredness of our kūpuna. The spiritual health and well-being of our people have gone through generations depends on the health and well-being of Hawaiʻi. Furthermore the healthy of the honua (earth) affects all of us.

Lastly, I wanted to remind the pro-TMT supporters that when our kūpuna built an adzes quarry on the Mauna, it was eco-friendly, done with protocol and was purposeful and functional whereas the aquifers were not polluted and the Mauna was respected not discarded. Please remember if you are an astronomer that studied anthropology/archaeology then you would know that the ancients knew and understood the universe far more than we did and that their teachings should be taken seriously. I leave you with these two ‘ōlelo noʻeau, Hawaiian proverbs:

ʻO na hoku no na kiu o ka lani (The stars are the spies of the heaven) I like to reflect into this ‘ōlelo noʻeau as we do not have to look much further as their are more intelligent beings above that know much more than us.

Please esteemed community and colleagues please listen to the kūpuna and make the right decision.

Mahalo nui loa,

Kaylene Kauwila Sheldon, Kaʻaʻawa
Aloha mai,
Please find attached my written version of my oral testimony presented to the BOR on 1-20-22.

Thank you,
Candace Fujikane
Professor of English
Director of the Undergraduate Program in English
University of Hawai‘i


[Attached file: Fujikane BOR Testimony against Master Plan 1-20-22.docx (21K)]
Aloha mai kākou e UH Board of Regents:

My name is Candace Fujikane, and I am a professor in the English Department. I have been an English professor at the University of Hawaiʻi for the past 27 years.

I want to address agenda item VI.F. regarding “Adoption of the Master Plan for the University of Hawaiʻi Maunakea Lands—E Ō I Nā Leo (Listen to the Voices).” I urge the board to reject the Master Plan because it fails to put into place a decision-making process that involves community members who have deep knowledge of ancestral practices of stewardship as reflected in oli and mele. The Master Plan fails to enact any substantive changes and thus continues to undermine the public trust in the University of Hawaiʻi. The Master Plan also fails to enact a decision-making process that listens to the voices of people of Hawaiʻi who put their lives on the line to protect Mauna a Wākea. In fact, the Master Plan articulates its goal to “facilitate” astronomical facilities” rather than stewardship. This ignores the voices of the overwhelming majority of people who have spoken against the proposed Thirty Meter Telescope.

The Master Plan, states under “1.5: Strategies”: “UH will pursue the following strategies,” number 10: “Facilitate over the 20-year period of this Master Plan the development of an astronomical facility on Astronomy Site 13.” This is one of many places that reveals the fact that the university plans to “facilite the development of astronomy,” specifically the Thirty Meter Telescope at Astronomy Site 13 rather than “stewarding the land.”

I find the naming of the new entity the “Center for Maunakea Stewardship” offensive. Why is it now stewardship when the so-called stakeholder group identified in the Master Plan remains the same? The Institute for Astronomy, the ʻImiloa Astronomy Center, the Mauna Kea Management Board and Kahu Ku Mauna are the very same groups that have been used to advance the interests of the Thirty Meter Telescope. The very formation of Kahu Ku Mauna has been exposed as fraudulent when a courageous former member of the group testified at the BLNR TMT contested case hearing that she was asked to rubberstamp policies. How is that true collaboration or stewardship?

Let me explain what true stewardship looks like. It would mean going to Kanaka Maoli who look to ʻike kupuna or ancestral knowledge to design a stewardship plan. Kumu hula Pualani Kanakaʻole Kanahele and other hula practitioners and aloha ʻāina put together a stewardship entitled Kīhoʻihoʻi Kānāwai: Restoring Kānāwai for Island Stewardship. I urge you to consider that document, which can be found online, and to consider the ways that that plan illustrates deep knowledge of the elements in Hawaiʻi and how to properly care for them. From generations of practicing the art of kilo, keen observation of the natural world, they have identified the kānāwai a ke akua or the laws of the elements. The truth is that Pualani Kanakaʻole, a beloved kumu hula,
was one of the kupuna arrested for standing for the kānāwai a ke akua or the laws of the elements. These laws include the Hoʻokikī Kānāwai, the Law of Continuity, that is violated by the Thirty Meter Telescope. Pualani Kanakaʻole Kanaheleʻs daughter Kekuhi Kealiʻikanakaʻoleohaililani co-wrote the Kīhoʻi Kānāwai stewardship plan teaches courses in island stewardship, and she is the one training hundreds of people in true land stewardship through the educational organization Lonoa Honua. You can learn more about true land stewardship at kekuhi.com.

Why does the University of Hawaiʻi, supposedly the premiere insititution of higher education in Hawaiʻi, consistently ignore the work of Kanaka Maoli practitioners most steeped in ancestral knowledges that are articulated in Hawaiian language in mele and oli?

The Master Plan privileges the knowledges of settlers who do not have 1) moʻokūʻauhau or genealogical connection to lands and waters in Hawaiʻi and 2) do not have a knowledge of Hawaiian language and the ancestral knowledge of stewardship as it is reflected in oli and mele.

I urge you to reject this Master Plan that continues to ignore the voices of the people who stand for the protection of Mauna Kea.

Sincerely,

Candace Fujikane
Professor of English
Director of the Undergraduate Program in English
Aloha Board Member,

I am writing to you in favor of continued management of Maunkea’s astronomy pursuits. The further we seek the truth of our origins and look beyond the stars, we can keep our connection to our ancestors. I may not be of Hawaiian descent but my family looked at the same stars I see when they took a leap to find a new life. To keep opportunities open, we must invest in it.

The stars have connected us for the years and we can’t turn away from it now because of those who are loud. Learning is ongoing and we need to pursue it here in Hawaii through astronomy.

Aloha,

Joni Kamiya
Kaneohe, HI

Sent from my iPhone
Aloha, Please let the world see that we stand first in line to lead on science and the future. The world needs our mountain. Support the Master Plan that will allow the stars to be observed for many lifetimes. Keep it simple, support The Plan and the TMT project.

Mahalo,

Harold Spindel
I oppose the UH master plan. Please stop this madness. There is nothing more you should do to the mauna. Please stop violating the rights of the mauna and kanaka maoli. Do you not have something else better to do in the face of climate change? There was a huge volcanic eruption near your ohana neighbor pacific island of the kingdom of Tonga and Samoa. Wheres the aid in that? Wheres the preparation for for climate disaster that will come to Hawai‘i if you build that telescope. Of course you dont think this little (NOT little) development has any impact, just like how elon musk or jeff bezos didnt think their impact on the world changes the climate, but it does! Online shopping, streaming, and more private transport all contributes to that. Please stop fighting the people, YOUR own ohana. And please fight the billionaires TAKING all the
resources for personal gains like 30 seconds in space with a private rocket. Just think about it. This is ridiculous.

I oppose the UH master plan, which prioritizes the construction of the Thirty-Meter Telescope on Mauna Kea. In case you weren't listening to our voices when we stood on the frontline in the thousands to oppose this telescope, no means no. Listen to the native people. This is a human rights issue. We already put our lives and bodies on the line to stop this telescope. We endured freezing cold weather for over 8 months to demonstrate our opposition. Listen to this - A'ole! A master plan with more telescopes and more desecration of the most sacred land of Native Hawaiians must not be approved. Over 1000 comments were submitted in opposition to the master plan because it includes TMT. Is there any part of Hawai'i that we can leave for our future generations? It is unbelievable the hatred that you must hold towards Kanaka Maoli to seriously advance a plan that would build more telescopes, including the TMT, and erect a gate to keep Hawaiians out. From the military poisoning our waters to this "Hawaiian place of learning" destroying the foundation of life culture - the level of disrespect of our 'Āina is just off the charts. A'ole TMT. No more telescopes. Take care of this 'Āina before you look to the stars.
Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Lanell Haunani Lua

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
lanellhdillard@gmail.com

Board of Regents Agenda Item (required) *
BOR VI.F. Adoption of the Master Plan for the University of Hawai’i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *
Comments Only

Your Testimony/Comments

Before the world figured out that Mauna Kea was the tallest mountain in the world, was there ever a proposal to build on Mt. Shasta(Denali)?, if so then BUILD THERE!!! Or Mt. Rushmore, BUILD THERE!!! Why does HAWAII and the HAWAIANS(KANAKA MAOLI) or the locals in HAWAII continuously have to suffer. When IS enough, ENOUGH?!? WHY DOES THE
STATE OF HAWAII ALWAYS HAVE TO BE USED, ABUSED (contamination of land/aina) bombing by the military that's called practice or training exercises. Then when they are done the land that's not habitable, cannot grow vegetables that helps the island thrive, cannot help provide temporary or permanent housing for the homeless, cannot be used as a park for the KEIKIS' to play, KUPUNAS to EXERCISE, CULTURAL PRACTITIONERS to teach about the people of this AINA!?!?! For our community to continuously go through this kind of ABUSE, will no longer be tolerated!!!

ALL OF THESE COUNTRIES THAT IS SO INTERESTED IN BUILDING ON THE MAUNA, WITH ALL OF THE MILLIONS OF DOLLARS PROMISED. WHY DON'T THEY BUILD IN THEIR OWN COUNTRIES OR MOUNTAINS?!?! BECAUSE THEY'VE ALREADY DID STUDIES ON THE DAMAGE THAT WOULD BE CAUSED BY THE TELESCOPE (BUILDING OF IT AND IT'S EXISTANCE)!!! IT'S DAMAGE TO THE LAND/AINA CANNOT BE HEALED AND BROUGHT BACK TO IT'S PRISTINE CONDITION AS IT SITS NOW!!! THERE ARE PLANTS & INSECTS THAT ONLY LIVE ON THE MAUNA!!! NOWHERE ELSE IN THE WORLD DO THESE PLANTS & INSECTS EXIST!!! WHERE IS THE PROTECTION FOR THOSE THINGS TO LIVE AND THRIVE?? IF IT WAS ANOTHER PLACE IN THE WORLD TO HAVE THIS TELESCOPE THERE WOULD BE JUST AS MUCH RESISTANCE I'M SURE. BUT BECAUSE IT'S IN HAWAII
AND THE HAWAIANS NEVER PUT UP RESISTANCE, "OH WE CAN JUST TAKE IT, THEY WON'T DO ANYTHING!!!" *****THOSE DAYS ARE OVER!!!!!!***** WE WILL RESIST!!! UNTIL THE LAST ALOHA AINA!!!!!
Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Stephanie Hewlen

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
shewlen808@gmail.com

Board of Regents Agenda Item (required) *
BOR VI.E. Partial Report of the Maunakea Plan Review Permitted Interaction Group Recommending Consideration of Approval of the Proposed Master Plan for the University of Hawai'i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *
Oppose

Your Testimony/Comments
Hawaiian lands belong in Hawaiians hands. Why do we spend MILLIONS on dollars on poles that do nothing for the people. If a missle is coming stars in the sky do NOTHING FOR THE PEOPLE and the reason why my ohana will never ever support this and we will be on the mountain to support our ohana and the lands that where apart of the Hawaiian legacy. Spend money where its needed not on a big telescope on OUR mountain.

Your Testimony (pdf or word)
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**Your Name (required) ***
Catherine Oliver, MD

**Your Organization (optional)**

**Your e-mail address (in case we need to reach you) ***
cathyoliver@me.com

**Board of Regents Agenda Item (required) ***
BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E ʻŌ I Nā Leo (Listen to the Voices)

**Your Position (required) ***
Support

**Your Testimony/Comments**
I support the master plan including the Thirty Meter Telescope. I am the daughter of an astronomer and grew up on the Big Island. I was trained at University of Hawaii John A Burns School of medicine and practice in Honolulu. I have voyaged on Hikianalia (one of the Polynesian Voyaging Societies wa'a). I believe that Maunakea has the ability to be both a sacred and a scientific wonder and we should strive for it to be an example of how we can be both respectful of the land and all its people as well as a place for discovery and innovation. For me it has never been a question of yes or no it is how do we do it in a way that changes the narrative of the past that hurt so many people and make our home a place that nurtures and thrives where people are treated with aloha. I think this master plan is a step in this direction and this is why I support it.
**Public Testimony Form - University of Hawaii Board of Regents**

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*I have a hard time understanding individuals who utilize Hawaiian stolen lands for the benefit of their own corporate agenda. For a decade now Kanaka Maoli, Native Hawaiians have been AGAINST the continued rape of our lands. Let us not forget that Native Hawaiians did NOT vote to be apart of the US, it was the transplant Americans who were given that exclusive voting rights that put us here today. What we need to do is focus on the current and remaining issues that our host people go through. Which once again is shown through these meetings, because STILL, after 2015 and 2019, are haole investors and corporations being prioritized over the actual Hawaiians that love and care for this place. You cannot simply put a few Hawaiian values and articles of language to fully engage the perspective of Native Hawaiians. You cannot simply take one language*
course at the University and believe that you no more than the generations of Hawaiian families that have
been working these lands for generations. We are still struggling with access to our lands, ALL LANDS ARE
HAWAIIAN LANDS, let us not forget that! If you truly want the trust and respect from the Native Hawaiian
community then there must be sacrifices, because everyday Hawaiians sacrifice our sanity, our mental health,
our physical health, and most importantly our spiritual health, just by being a part of a government and a
capitalist system that has continued to show us no ALOHA. Funny how that works, our own language being
used against us. Do you even know what real aloha is? As a university who has had MANY problems with
Kanaka Hawaii, I find it mind boggling that we are still fighting you folks to get your selves together and be
more FOR THE HAWAIIANS. When will you realize that our land is far more priceless than the projects you
wish to build to EXPLOIT our land and people. When will you realize that it takes actual Kanaka Hawaii to
learn and teach the Hawaiian culture in its most authenticity. People who have NO SPIRITUAL connection to
these lands, who have NO GENERATIONAL connection to these lands AS HAWAIIANS, have no right to attack
the Kanaka who are standing up and saying ENOUGH IS ENOUGH. NO MORE TELESCOPES ALREADY! Get
more Hawaiians to our lands, get us working on our spiritual health by making these places available. Right
now there is an influx of outsiders moving in and Hawaiians moving out, does that not scare you? Hawaii will
never be Hawaii if we continue to put projects that are temporary and not sustaining to the whole well-being
of our Hawaiian community. Hawaii will never be Hawaii if we continue to place american values over
Hawaiian values, HAWAII WILL NEVER BE HAWAII if you continue to shut the HAWAIIANS OUT. And that is
what everyone needs to realize. This aina is our Kupuna, these resources are our akua, and you will never feel
what it truly is to be a Hawaiian in Hawaii if you never give us the SAFE SPACE to be that. May the kupuna
guide your naau to what is pono, and no, not the biblical Righteousness, but the Hawaiian perspective of
balance. YOU, University, have raped that Mauna for too long, SHE NEEDS TO REST AND BE RESTORED, THAT
IS PONO INTENTIONS, THAT IS ALOHA, THAT IS HAWAIIAN. Me ke aloha aina oiaio.

Your Testimony (pdf or word)

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| Aloha TMT Supporters,  

We need UH’s new Master Plan in place in order to renew UH’s Master Lease for Mauna Kea and keep the astronomy industry, including TMT, in Hawaii! I support adoption of UH’s draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea |
Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

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Pat Dunlap Evans asserts in "Don't let tunnel vision eliminate astronomy on Mauna Kea," Thursday, January 13, 2022, that those who oppose the construction of TMT on Mauna Kea suffer from a narrowness of vision. On the other hand, on careful examination, it is Evans who shows a lack of rigor in her reasoning. Those who offer their opinion on critical issues should be held to a certain standard: First They
should be based on all the facts. Second, the writer should express the moral or legal principles that guide their opinion. She leaves out critical facts and fails to offer a coherent basis for rendering her decision.

The author complains that the MKWG opinion is wrongfully based on race and religion. She doesn't explain why providing Native Hawaiian's a critical voice on the working body is wrong. She seems to view Native Hawaiians as one of many immigrant groups and thus, preferring Native Hawaiians as to opposition to TMT, beyond their pro-rata representation in the population of Hawaii is wrong. She states that "if the race is to be the determining factor, then the Governing Entity should be 34 percent white, 21 percent Asian, and 12 percent Native Hawaiian" in the county of Hawaii.

She seems to be operating from the view that equality consists of treating all groups equally—according to their percentage of the population. Yet, the principle of equality, or treating all cases that are alike equally, also implies that treating unequal cases the same is another form of inequality. Native Hawaiians are not immigrants. Native Hawaiians are the indigenous people of Hawaii. Anyone who asserts that everyone who came to Hawaii, even the first, is an immigrant, lacks a coherent understanding of the distinction between immigrant communities, and indigenous people. By indigenous people, one means those who settle first and establish a political governing entity. Moreover, to consider Native Hawaiians as akin to immigrants.

Native Hawaiians not only are indigenous but had a nation-state prior to the takeover of the United States. In her thinking, the overthrow of the Kingdom of Hawaii but for the assistance of United States military intervention is irrelevant.

On January 17th Native Hawaiians remember one of the most bitter events in their history, the overthrow from both within and without of a sovereign nation-state complete with laws and respected and recognized by all other nations, including the United States. The Kingdom of Hawaii had a legal system deserving of as much respect as any other nation-state, including the United States. By the overthrow, an event the United States Congress has apologized for the United States displaced the legal system of the Kingdom of Hawaii for that imposed by the United States. Evans leaves out important facts. Namely, the United States and the State of Hawaii have provided programs, remedies, and forms of reparations that recognized the wrong of overthrow and annexation.

First, the legal system of the Kingdom of Hawaii commands official respect in that the very first statute in the laws of the State of Hawaii, Hawaii Revised Statutes, second 1-1 provides that the laws, culture, and traditions of Native Hawaiians shall be the common law of Hawaii unless displaced. That is an extraordinary concession to both the continuing significance of the laws and the culture of Native Hawaiians as well as frank concession by the United States and the State of Hawaii that the overthrow of the Kingdom of Hawaii was wrong. On the eve of the annexation Native Hawaiians had more persons having the right to vote than any other group by race. Only the vast settlement of the United States by citizens of the United States after the United States gained political control changed the majority to those of non-Native Hawaiians.

Second, the United States accords Native Hawaiians by race and blood quantum preferences not held by other groups. There are countless federal programs that provide services for Native Hawaiians as to health, education, and entrepreneurship. Evans fails to mention that the Hawaiian Homes Commission Act, provides housing for Native Hawaiians based on a 50 percent blood quantum. It is Congress that established the Hawaiian Homes Commission—a century ago. The University of Hawaii itself, the trustee of Mauna Kea, by past practice, has announced that it is committed to making the University of Hawaii a place of Native Hawaiian learning. There is a school of Native Hawaiian studies. There is a program in excellence in Native
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Native Hawaiians are not immigrants but persons who collectively wielded sovereignty over the Hawaiian Islands until the United States wrongfully and without legal justification ended the sovereignty of a friendly nation. The committee that drafted the Working Group plan was not acting from an unjustified desire to prefer Hawaiians—but from core values of the United States that the wrong of taking the self-determination of Native Hawaiians must be redressed by the law.

Her article mentions that the Supreme Court upheld the right of the TMT to build on Mauna Kea. The Supreme Court deferred to the view of a single hearings officer who upheld the issuance of a permit. That hearing officer was not acting as a judge. That hearings officer acted with disregard of fundamental procedural due process—a value that the Supreme Court used to remand the case to that hearings officer. To start, the hearings officer failed to allow expert testimony on the title to the lands on which TMT was to be built. I should know, it was my testimony that was excluded despite its relevance. TMT is to be constructed on ceded lands—either land of the former Crown or government of the Kingdom of Hawaii. That is wrong considering the commitment made by the State of Hawaii at Statehood that Native Hawaiians are a defined beneficiary of the trust over those 1.9 million acres. Those 1.9 million acres out of the whole of some 4 million acres of land in the State of Hawaii were taken from the citizens of the Kingdom of Hawaii. There is ample precedent for including a person who understands Native Hawaiian customs and values in the working group.

The construction of Mauna Kea has proceeded from a vacuum of Native Hawaiian representation. The construction of TMT on Mauna Kea would greatly impair Native Hawaiian—it would be destructive to their very identity as persons as much so as if TMT were to be built on monuments the United States and its citizens hold in great reverence, the Pearl Harbor memorial, Gettysburg, Arlington Cemetery, or the beaches of Normandy. To some Mauna Kea may just be another mountain—an ordinary part of the lands of Hawaii. Evans fails to note that Hawaiians if their culture is to be taken seriously and must, consider the Mauna Kea to be central to the creation of the world. Should the search for the Big Bang, the view of western science as to how the Universe is created by advanced by sacrificing the whole of the world view of Native Hawaiians just one for more bit of evidence, not even conclusive evidence, in the West's search for its own form of meaning. There are other great telescopes in place, such as the James Webb and the Great Magellan to be built in the Southern hemisphere. Western astronomy has alternatives to TMT, alternative to Mauna Kea, Native Hawaiians have none.

Williamson Chang has been a Professor of Law at the William S. Richardson School of Law for the past 44 years. He has presented his views on Mauna Kea, as well as Native Hawaiian Sovereignty, in many hearings on Mauna Kea. He has also made presentations at Nagoya University in Japan and the Smithsonian Museum in Washington D.C. However, his testimony was not deemed relevant by the hearings officer in the Contested Case as to TMT. He presently teaches Conflict of Laws, Professional Responsibility and a seminar on Mauna Kea.

Your Testimony (pdf or word)

1 How not to Think about TMT and Mauna Kea.pdf (18.7 kB)
Pat Dunlap Evans asserts in “Don’t let tunnel vision eliminate astronomy on Mauna kea,” Thursday, January 13, 2022, that those who oppose the construction of TMT on Mauna Kea suffer from a narrowness of vision. On the other hand, on careful examination, it is Evans who shows a lack of rigor in her reasoning. Those who offer their opinion on critical issues should be held to a certain standard: First, they should be based on all the facts. Second, the writer should express the moral or legal principles that guide their opinion. She leaves out critical facts and fails to offer a coherent basis for rendering her decision.

The author complains that the MKWG opinion is wrongfully based on race and religion. She doesn’t explain why providing Native Hawaiians a critical voice on the working body is wrong. She seems to view Native Hawaiians as one of many immigrant groups and thus, preferring Native Hawaiians as to opposition to TMT, beyond their pro-rata representation in the population of Hawaii is wrong. She states that “if the race is to be the determining factor, then the Governing Entity should be 34 percent white, 21 percent Asian, and 12 percent Native Hawaiian” in the county of Hawaii.

She seems to be operating from the view that equality consists of treating all groups equally—according to their percentage of the population. Yet, the principle of equality, or treating all cases that are alike equally, also implies that treating unequal cases the same is another form of inequality. Native Hawaiians are not immigrants. Native Hawaiians are the indigenous people of Hawaii. Anyone who asserts that everyone who came to Hawaii, even the first, is an immigrant, lacks a coherent understanding of the distinction between immigrant communities, and indigenous people. By indigenous people, one means those who settle first and establish a political governing entity. Moreover, to consider Native Hawaiians as akin to immigrants.

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<th>Liliana</th>
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<td>Your Organization (optional)</td>
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<tr>
<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:Liliana.gonsalves@halaukumana.org">Liliana.gonsalves@halaukumana.org</a></td>
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</tr>
<tr>
<td>Your Position (required) *</td>
<td>Oppose</td>
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<tr>
<td>Your Testimony/Comments</td>
<td>Mauna Kea is a sacred place that is also a water source. If the TMT were to be built it would destroy the mauna and contaminate the water.</td>
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<td>Your Testimony (pdf or word)</td>
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<td>Anuhea McDougall</td>
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<td>Hālau Kū Mana</td>
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<td>**Your e-mail address (in case we need to reach you) ***</td>
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<tr>
<td><a href="mailto:xenna.mcdougall@halaukumana.org">xenna.mcdougall@halaukumana.org</a></td>
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<td>Oppose</td>
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<td><strong>Your Testimony/Comments</strong></td>
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<td>I am in opposition of building the Thirty Meter Telescope (TMT) because it does not benefit Native Hawaiians and it violates sacred Hawaiian land.</td>
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<td><strong>Your Testimony (pdf or word)</strong></td>
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<tr>
<th>Your Name (required) *</th>
<th>Piilani Hirahara</th>
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<td>Your Organization (optional)</td>
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<tr>
<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:piilani.hirahara@halaukumana.org">piilani.hirahara@halaukumana.org</a></td>
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<td>Your Position (required) *</td>
<td>Oppose</td>
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<tr>
<td>Your Testimony/Comments</td>
<td>I oppose the building of the TMT on Maunakea because that is a very sacred space for us Hawaiians. Many of our ancestors that came before us are buried under there. And to keep on adding more telescopes for the purpose of science is just unbelievable. A solution to this is building this TMT anywhere else in the world OTHER THAN Hawaii. The fact that scientist and David Ige are ok with this makes it known to the Hawaiian people that you guys dont care about us and our past. You guys only care about science and NOT how the people of their own land feel. That is very shamefull and I belive us Hawaiians need to be heard!</td>
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<tr>
<th>Your Name (required) *</th>
<th>Richard Carreira III</th>
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<td>Your Organization (optional)</td>
<td>Halau ku mana</td>
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<tr>
<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:richard.carreira@halaukumana.org">richard.carreira@halaukumana.org</a></td>
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<td>BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)</td>
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<td>Your Position (required) *</td>
<td>Comments Only</td>
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<td>Your Testimony/Comments</td>
<td>Some comments that I do have about this building on the TMT are the effects it will have on the Mauna and what effects it will have on the Hawaiian people for building something like that on sacred lands. Some other comments I have if they do end up building it on the Mauna what benefits will the Hawaiian people get?</td>
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<td>BobbieJoy Kaakau</td>
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<td><a href="mailto:bobbiejoykaakau@gmail.com">bobbiejoykaakau@gmail.com</a></td>
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<td>Oppose</td>
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<td><strong>Your Testimony/Comments</strong></td>
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<td>I oppose because Maunakea is such a beautiful place and there gonna build something that takes away the beauty of Maunakea. I understand that the TMT can see more stuff in space, but Maunakea should be used as a place to sit and just look up at the sky with your eyes. There doesn't have to be a fancy telescope up there so we can see, we can use our eyes and see what we wanna see. So they should not build the TMT because it's gonna take away the beauty of Maunakea.</td>
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<td><a href="mailto:Joshua.lehano@halaukumana.org">Joshua.lehano@halaukumana.org</a></td>
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<td>A comment that came up to me for this regent agenda is that the maunakea plan should at least talk about the important view of not having a university hawaii on mauna kea and at least see the positive side of the agenda and go straight forward</td>
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**Your Name (required) ***

N. U'ilani Barrett-Tau

**Your Organization (optional)**

Hālau Kū Māna Charter School

**Your e-mail address (in case we need to reach you) ***

kumu.uilani@halaukumana.org

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**Your Position (required) ***

Oppose

**Your Testimony/Comments**

I reject the proposal of the TMT to be built atop Mauna Kea. It is a cultural wahipana or sacred place that serves as a spiritual connection to Akua (God). Also, the University of Hawai‘i has neglected their kuleana/responsibility to the maintenance and upkeep of the wahipana with no regard to the people who have the highest regard for Mauna Kea, ʻāina aloha, kapu aloha.

**Your Testimony (pdf or word)**

Page 1996
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**Your Name (required) **

Kainoa Mattson

**Your Organization (optional)**

**Your e-mail address (in case we need to reach you) **

kainoa.mattson@halaukumana.org

**Board of Regents Agenda Item (required) **

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**Your Position (required) **

Oppose

**Your Testimony/Comments**

The whole TMT situation has been around for a couple of years now and I just don't think it's right. I personally think that the TMT would open a lot of doors for people, but I just don't think that the location is right. It's just too big and too impacting as a project, impacting as in affecting negatively. It's on sacred lands and the thing is supposed to be as big as Aloha Stadium, so you can just put that into perspective. Even though the whole situation has kind of cooled down or have been somewhat pushed aside since then, it hasn't been forgotten, it's still an issue that has to be solved.
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<tr>
<td>Hiilei Patoc</td>
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<td><a href="mailto:hiileip@halaukumana.org">hiileip@halaukumana.org</a></td>
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<tr>
<td>Dear Board of Regents,</td>
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<tr>
<td>Aloha I am Hi‘ilei Patoc and I oppose this bill.</td>
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<td>I do not support the building of the telescope on Mauna Kea. I believe that by building this it will affect Hawai‘i in a very negative way. There is no real guarantee what this project will lead to in the future so its better not to chance it. The TMT would be on a big, most likely, the main water source on Hawai‘i island and it will do the same damage the fuel tanks did on Red Hill.</td>
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I don't think or want this bill to pass. Thank you for reading my testimony.
Aloha 'O Tehani ko'u inoa

I'm a 10th-grade student at a public charter school called "Halau Ku Mana" also known as "The school of strength". Halau Ku Mana helped me realize the importance of 'Kapu' or 'sacred'. Maunakea is the home to a Hawaiian goddess Poliahu(Goddess of snow). not only that but Maunakea is also a part of the tallest mountains measured. I visited Maunakea on my 8th-grade huaka'i and I haven't felt close to something as big as Maunakea herself. I know people will think "But it's just a mountain, it can't feel anything," a lot of people said the same thing about lava rocks from the Big Island and now some of those people are still scared to come back to Hawaii.
and take their chances. Now imagine destroying someone’s home as if taking something you see as lava rock, but the Hawaiians see it as something sacred. This is an old trick in the book. People will take for money no matter if it’s someone else’s home people will only see dollar signs on our lands.

Your Testimony (pdf or word)

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<td>Cheyenne Domingo</td>
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<td>Halau Ku Mana PCS</td>
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<td>**Your e-mail address (in case we need to reach you) ***</td>
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<tr>
<td><a href="mailto:cheyenne@halaukumana.org">cheyenne@halaukumana.org</a></td>
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<td>**Your Position (required) ***</td>
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<tr>
<td>Oppose</td>
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<tr>
<td><strong>Your Testimony/Comments</strong></td>
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<tr>
<td>I oppose to the construction of TMT on Mauna kea.</td>
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Please provide your testimony on this form for the next University of Hawaii Board of Regents meeting. Make sure you include all the requested information so that the Board of Regents is able to clearly understand the testimony provided.

Your Name (required) *
Raquel Dow

Your Organization (optional)

Your e-mail address (in case we need to reach you) *
raqueldow@gmail.com

Board of Regents Agenda Item (required) *
BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *
Support

Your Testimony/Comments

I support adoption of the UH Master Plan for Maunakea. I am extremely disappointed in the recent recommendation of the legislative committee. I believe the management of Mauna Kea should remain the purview of the University of Hawaii. Although mistakes were made in the past, UH has worked diligently to correct those mistakes, especially with increased outreach to members of the Hawaiian community and inclusion of Hawaiians in developing plans for the mauna. However, the current legislative report throws out all of that progress and disregards any input from the rest of the residents of Hawaii.

All aspects of the community should be represented not just one vocal group. The astronomy community should be allowed to participate given the many benefits they provide the community such as funding for
STEM education for our keiki and good paying jobs.

To approve this report would make a mockery of all the work that has been done over the past ten years in favor of kowtowing to the protesters who have violated laws and refused to accept legally valid decisions when they did not go their way. Mauna Kea belongs to all of us, not just to a vocal minority. Mauna Kea is no more sacred than the rest of our beautiful islands and should be cared for by representatives of all of us not just a few. UH has the experience and scientific knowledge to be stewards of this wonderful resource.

Raquel Dow
11-3886 5th Street
Volcano, HI 96785

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<td>Halau Ku Mana public charter school</td>
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<td><a href="mailto:mylisa.kala@halaukumana.org">mylisa.kala@halaukumana.org</a></td>
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<tr>
<td>Aloha, my name is hulale'a and I am a student from Halau Ku Mana public charter school. my opinion is that I don't want them to build the TMT because it's a wahipana or a sacred place, it's a sacred place where native Hawaiian people believe that it's the place for the gods.</td>
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Page 2005
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<th>David Dow</th>
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<td>Your Position (required) *</td>
<td>Support</td>
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**Your Testimony/Comments**

I support adoption of UH's draft Master Plan for Mauna Kea because it keeps astronomy on Mauna Kea alive, including the Thirty Meter Telescope (TMT). UH has done a masterful job of managing Mauna Kea over the last 20 years, especially with respect to obtaining a permit for the construction of TMT. TMT is one of the greatest projects to ever be developed in Hawaii and I wholeheartedly support its completion. I hope UH is doing everything in its power to ensure TMT is built. Moreover, Mauna Kea is now some of the best managed state-owned land in Hawaii. Mauna Kea Observatories are the most scientifically-productive collection of telescopes in the world, and I am proud of their work. Astronomy on Mauna Kea is our culture. Astronomy on Mauna Kea provides opportunities for our keiki to benefit in terms of education, training, inspiration, and pride.
in the scientific discovery that takes place in our home. The presence of astronomy on Mauna Kea is vital for the Hawaii Island community and our state as a whole, for the economic diversification and world-class nature of the work that goes on there. Please keep it up. I mua Kilo Hōkū and i mua TMT!

mahalo,
David Dow

Your Testimony (pdf or word)
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## Public Testimony Form - University of Hawaii Board of Regents

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<td>Your Testimony/Comments</td>
<td>I support building TMT as long as no irreparable harm to Mauna Kea is done as a result. Protection of the environment must be the first responsibility of each step, decision. There must be a limit of the number of telescopes. I support the careful removal of older telescopes. Mauna Kea must not become a graveyard of abandoned technology.</td>
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Your Name (required) *
Hema K. Watson

Your Organization (optional)
Halau Ku Mana Charter School

Your e-mail address (in case we need to reach you) *
hema.watson808@gmail.com

Board of Regents Agenda Item (required) *
BOR VI.F. Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands -- E Ō I Nā Leo (Listen to the Voices)

Your Position (required) *
Oppose

Your Testimony/Comments

To me, it is disrespectful the fact that plan is even called“E Ō I Nā Leo” or“Listen to the voices.” For decades the Board of Regents has continued to ignore complaints and even broken their own agreements towards the development atop Maunakea. There have been multitudes of protests, testimonies, and movements against the continued development and disregard occurring on top of one of Hawaii's most sacred places. I have no issue with progress or research, I have no problem with astronomy; we as Hawaiians were prominent astronomers ourselves! It is the fact that you have paraded around as if you have the final say on this land as if the land you develop and work upon is yours when it is not. 13, 13 is the number of telescopes you have built. That in of itself breaks your original agreement and yet now you want to build a bigger and more
consuming one as well? It is an insult to injury and a spit in the face of the people you are supposed to serve and educate. You have so many options at your disposal but your choice is to create a false reality in which you can justify your actions and then ask the public if it is okay with them. It is not, was not, will not ever be. You have broken our trust and destroyed the possibility of a future in which your precious telescope is created. It is too late now.

Your Testimony (pdf or word)

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<td>Your e-mail address (in case we need to reach you) *</td>
<td><a href="mailto:ramsey@halaukumana.org">ramsey@halaukumana.org</a></td>
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**Your Testimony/Comments**

Welina mai kakou,

University of Hawaii Board of Regents Mahalo for this opportunity to share my testimony and stance on Mauna Kea. ‘O Ramsey Fiorello ko‘u inoa, no Kāne‘ohe mai au. I am a kumu at Hālau Kū Māna Public Charter School, and I oppose BOR VI.F Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands – E Ō I Nā Leo (Listen to the Voices).

For fifty years, Mauna Kea has been managed with utter disregard for the environment and its ecosystem. The Department of Land and Natural Resources’ mission statement is to promote the safe and responsible use of Hawai‘i’s natural resources. More specifically, headed by the Board of Land and Natural Resources, the
DLNR is “responsible for managing, administering, and exercising control over public lands, water resources, ocean waters, navigable streams, coastal areas (except commercial harbors), minerals, and all interests therein” (“About DLNR”). However, the BLNR has gone against its own rules and guidelines. For example, Mauna Kea is recognized as Conservation Land and by that definition, the BLNR and UH have failed the mountain miserably. There have been numerous spills and construction projects on the Mauna, which have led to adverse effects on its environment. In 1995, there had been such an accumulation of trash on the mountain that the city had to airlift it out, costing taxpayers $20,000. In 2011, the Subaru Observatory spilled 100 liters of orange coolant, which shut the observatory down for two weeks. These examples are two of many that are the result of the DLNR and UH’s disregard and neglect of Mauna Kea. Allowing them to remain in control of the mountain would be a complete dishonor to the people of Hawai‘i. Mauna Kea holds much significance for our people, both culturally and environmentally. If these actions are to continue our mountain will be gone. I urge the University of Hawaii Board of Regents to not adopt this plan or any other plan. Stop TMT!

Mahalo Nui Loa

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**Your Testimony/Comments**

I am opposed to the Master Plan because it does not take into consideration the voices of the people. Naming it "Listen to the People" is misleading. Thousands of people across Hawaii have spoken time and time again. We are opposed to the TMT. I am opposed to it.

**Your Testimony (pdf or word)**

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BOR VI.F Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands – E Ō I Nā Leo (Listen to the Voices) TESTIMONY LETTER

Addressed specifically to the University of Hawai‘i Board of Regents,

Welina me ke aloha,

Page 2015
I am a 9th grader in Hawaiian Charter School Hālau Kū Māna and I live in Kalihi Kai. My testimony emphasizes that I fully oppose BOR VI.F Adoption of the Master Plan for the University of Hawai'i Maunakea Lands – E o I Nā Leo (Listen to the Voices).

Before I cite my reasons and evidence to oppose TMT, I must recite this ʻŌlelo Noʻeau I thought was relatable to the controversy happening today. “Ka lepo ke kumu wai, e hua i ana ka lepo i kai.” And this ʻōlelo translated is "When the source of the water is dirty, muddy water will be seen in the lowland." Nowadays, you know this ʻōlelo noʻeau is true because whenever it floods, all the mud and ʻopala goes to the ocean and you have to wait for a few days for it to fully flush, right? Well, how this relates to TMT is that due to the 13 TMT already built on Mauna Kea, not only does the chemicals needed to supply it be built 7 stories below ground, these chemicals include coolant and jet fuel. And if you know the effects of these chemicals, then you would know it is extremely harmful to water, and the potential danger it would do to water aquifers. n 2011 the Subaru Observatory spilled 100 liters of orange coolant, leading it to be shut down for two weeks although this observatory did not mean for this to happen, it did which is why the aquifer in Mauna Kea needs to be protected.

From 1893 and until around the 1970′s, the lāhui was at a loss in their culture, for they didn’t know who their ancestors were, and they didn’t know who they were. Sacred wahi pana were being desecrated such as Pōhakuloa, Kahoʻolawe, and various loʻi kalo lands like Kūhiawaho. Many of these lands continue to be desecrated, such as Mauna Kea. When I was born in 2006 and was attempted to be raised around Hawaiian culture as much as possible, it didn’t work out. The only three ʻŌlelo Hawaiʻi I knew were ‘aʻole, ‘ae, and lua. I struggled with asking to go to the lua in Hawaiian. I was at a loss, which at some point didn’t even know the story behind my name. It was only recently that I luckily learned about all of these ‘ike. . But could you imagine what it was like for kids my age before the Hawaiian Renaissance? The oppression ʻŌlelo and practicing cultural activities because if you cultivated your culture, severe physical punishment at school would be the consequence. If not for the Hawaiian renaissance, who knows what would’ve happened to our ʻāina today. Would there even be a Kahoʻolawe, or would it just be labeled as “Testing Site for Military Bombing.” The lack of support from the Board of Regents in shutting down TMT is the same type of oppression our ancestors have suffered. Stop silencing our voices when we say we don’t want this telescope built on our mauna.

Therefore as I conclude my testimony, I would like to recite my position; I fully oppose BOR VI.F Adoption of the Master Plan for the University of Hawai‘i Maunakea Lands – E o I Nā Leo (Listen to the Voices). I would also like to leave with this last bit of information,Kā maka Maoli weren’t the only ones who supported Queen Liliʻuokalani during annexation but Hawaiian Nationals of different nationalities. The same way people of Hawai‘i rallied for what was right then, people of Hawaii are rallying for the shutdown of TMT. It is up to you to make the right decision to continue to whitewash indeginous people and desecrate our lands in the name of profitable astronomy.

Mahalo nui.

Me ke aloha,
Kaʻimipono Inofinada, Kū Kiaʻi Mauna
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<td>Cynthia Franklin</td>
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Dear BOR Members,
I am writing in late, to oppose the adoption of the "Master" Plan for Maunakea Lands. To be honest, I felt too worn down to submit testimony—it is so demoralizing to write and speak, again and again, in the face of callous capitalist and colonial disregard. But after listening to hours of eloquent and impassioned testimony from kiaʻi, who show up every single time such testimony is required, despite the fact that the University does not listen to them (and the title of your "Master" Plan is a travesty as well as an act of cultural appropriation, as pointed out by Mr. Flores), I realized the importance of continuing to speak out, and on the record, to oppose the University’s settler colonial agenda and disregard for the aloha ʻāina who are fighting to protect their land, skies and waters.
Be on the right side of history and stop acting to desecrate the Mauna and to disrespect those who stand and will continue to stand, until the last aloha ʻāina, to protect their beloved ancestor—and the waters that give life to all of us who live on these islands.

Cynthia Franklin
Professor of English, UHM

Your Testimony (pdf or word)

No file attached
Aloha!
I am a 40 year caucasian resident of Hawai`i Island.

The 'management' of Mauna Kea has been atrocious for 50 years.

It's time to give up on the TMT & start decommissioning applicable telescopes with the intention of restoring the area for its true owners.

Land based telescopes are dinosaurs and the Hawaiian people and their allies will NEVER allow the TMT to be built. They will block the road to the summit forever, if necessary.

Save yourselves the headache & cash. Throw in the towel.

Mahalo!
Shannon Rudolph - Kona

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How wonderful it is that nobody need wait a single moment before starting to improve the world. ~ Anne Frank
Aloha e BOR,

I am writing in complete opposition of this masterplan. The writers of this masterplan have not listened to the voice that have spoken, yet you entitle the plan listen to the voices. This is a sacred site that has been desecrated from the get go. You have not listened at all. No one should be going up there, not astronomers, not tourist vans, not locals to play in the snow. In the past, only certain kahuna had permission to go there, that's it. All the land in Hawai'i is to be cared for by the people who live on it and benefit from it, to take care of it, not destroy it. We all are just caretakers for a short while to pass on to the next generation something better, not worse. This decision rests in the hands of the creator and you the Board should make that decision in the best interest of all, not just a few that might benefit. That being said, the Kanaka Maoli and their ways of knowing take presence because their ancestors have lived and taken care of this land far longer than the foreigners that came and oppressed the native people and still do so today. Justice will always prevail. I am a graduate of UHH, a teacher, a mother, a grandmother, an environmentalist, and steward of the resources, I write from many viewpoints. The taking and owning of land and controlling what is done on that land is the greatest destruction done to the people who were here first, where is the respect. Listen to the people, a majority have spoken against the building of TMT, yet this keeps going on and on, no means no, ‘ā’ole means ‘ā’ole!!! Mahalo for allowing public input, let the voice be heard.

Sent from my iPad  Lisa Kaahakea Peleiholani
testimony for Bor mtg. 1-20-22
1 message

Hank Hawaiian <hankhawaiian@yahoo.com>
To: "Bor.testimony@hawaii.edu" <bor.testimony@hawaii.edu> Thu, Jan 20, 2022 at 2:37 PM

Aloha,
This testimony is submitted as a result of inability to connect to meeting starting *:30 am. I was advised to submit my testimony before the end of the mtg, to having it included in the minutes of the meeting.

Hanalei Fergerstrom 1-01-2022 Board meeting.docx
117K
UH Board of Regents meeting 1-20-22

UH Board of Regents,

I apologize for my disability to connect to today's Board meeting. I was able to at least listen via my phone. I am following up with the advice that if I am able to submit testimony by the end of the meeting, that it would be made part of the record.

I wanted to voice our opposition to the Mauna Kea Master Plan and its insistence that the Thirty Meter Telescope is a major part of the plan. It seems that regardless of the substantial opposition to TMT that the University of Hawaii continues to make TMT the spotlight of the future of Astronomy in Hawaii. What seems to escape the University is that the lands of Mauna Kea in its present identification continually declines as it was once considered “Ceded Lands” and now has been identified by the University as “State Owned Lands”. This recent identification portrays Mauna Kea to be State OWNED as opposed to Ceded lands held in Trust, thereby perpetuating a false narrative of ownership that is deceptive to potential funders of the TMT project.

Please understand that new Mauna Kea plans will create potential conflicts with Native Hawaiian Religious practices and cultural practices that conflict with Article 12 sec.7 of the Constitution of the State of Hawaii.

I stand in opposition to the attempt to get an extended lease for the lands of Mauna Kea. The current lease call for its termination in 2033. The University pays a mere $1 per year. As a lease from the State of Hawaii, I believe that the lease agreements need be carried out as specified and conditioned by the original lease. A new lease would have to go through proper bidding channels consistent with State lease laws.

As far as the State Senate’s Mauna Kea working groups findings and suggestions. While we don't necessarily agree with all their points, we do agree that TMT is out of the question and will remain a massive controversy.

Thank you, Hank Fergerstrom