

CENTER FOR MAUNAKEA STEWARDSHIP

2023 Highlights

Resource Management Team

Justin Yeh

Taylor Warner

Anuheia Robins

Patricia Heidenfeldt

Nahia Nawahine-Pilago

Avalon Paradea

12/7/23

STAFFING

- Hired on two Resource Management Associates
 - Taylor Warner and Casey “Anuhe’a” Robins
- Summer PIPES Intern
 - Elai Porter from UH Hilo
- Native Plant Restoration Assistant/ Guide
 - Patricia Heidenfeldt
 - Nahia Nawahine-Pilago
 - Avalon Paradea
- Selfless Volunteers



CURRENT MANAGEMENT ACTIONS

Cultural and Natural Resource Management

CR-10: Implement Historic Property Monitoring Plan (260 identified sites)

NR-1 Limit threats to natural resources through management of activities and uses.

NR-2 Implement the Maunakea Invasive Species Management Plan (C. Vanderwoude, February 2015) and modify, amend, and update it as warranted.

NR-5 Allow, and where possible facilitate, ecosystems to respond to climate change.

NR-9 Increase native plant density and diversity through an outplanting program.

NR-10 Require mitigation measures in plans for new development.

NR-12 Plan and conduct habitat restoration activities, as needed.

NR-13 Increase communication, networking, and collaborative opportunities that support management and protection of natural resources.

NR-17 Conduct research to fill knowledge gaps that cannot be addressed through monitoring.

Education and Outreach

EO-2 Require orientation of all persons accessing the UH Management Areas in a manner consistent with the MEOP and Maunakea Administrative Rules.

EO-3 Consistent with the MEOP, continue to develop, update, and distribute materials explaining important aspects of Maunakea.

EO-4 Consistent with the MEOP, implement the Maunakea Sign Plan (Office of Mauna Kea Management, February 2017) and modify, amend, and update it as warranted.

EO-5 Consistent with the MEOP, develop interpretive themes and features.

EO-8 Consistent with the MEOP, continue and increase opportunities for community members to participate in stewardship activities.

Activities and Uses Monitoring, Evaluating, Updating

ACT-1: Develop and implement robust access management guidelines and Procedures.

ACT-2 Implement and enforce Maunakea Administrative Rules to reduce impacts of parking and traffic.

ACT-3 Maintain the Ranger program to educate and encourage adherence to rules and guidelines and enforce Maunakea Administrative Rules.

ACT-4 Maintain and strengthen infrastructure to educate and encourage adherence to rules and guidelines.

ACT-9 Implement and enforce Maunakea Administrative Rules pertaining to commercial tour permitting.

MEU-1 Post tracking and assessment metrics and provide annual Progress Reports to DLNR regarding management activities.

MEU-2 Conduct regular evaluations and updates of the CMP utilizing adaptive management means that address public input, incorporate lessons learned, and take advantage of new data and information.

MEU-3 Revise and update planning documents, including the master plan, leases, and subleases, to maintain compatibility and consistency between them and reflect stewardship matters resolved with DLNR.

STANDARD OPERATING PROCEDURES (SOP'S)

- SOP 01 Cleaning of Vehicles and Personal Belongings
- SOP 02 Inspection of Vehicles and Construction Materials
- SOP 10 Invasive Invertebrate Early Detection Surveys of Facilities
- SOP 11 Annual Alien Invertebrate Early Detection and Wekiu Bug Monitoring
- SOP 12 Early Detection Arthropod and Vegetation Surveys



RESTORATION ACTIVITIES

- Volunteer weed pulls.
- Native plant propagation and out planting.
- Partnership with DLNR and Ahinahina propagation.

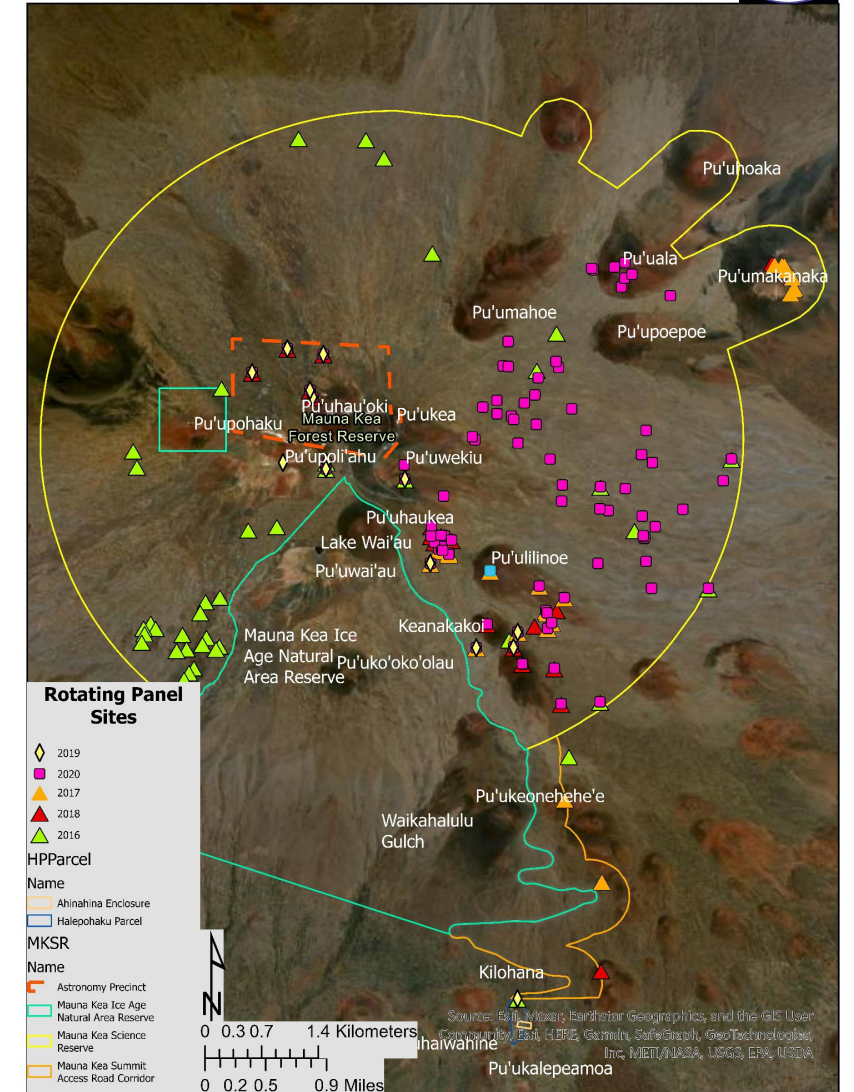


CULTURAL LANDSCAPE

- 263 historical sites within the UH managed lands
- There are an additional 109 sites within the MKIANAR



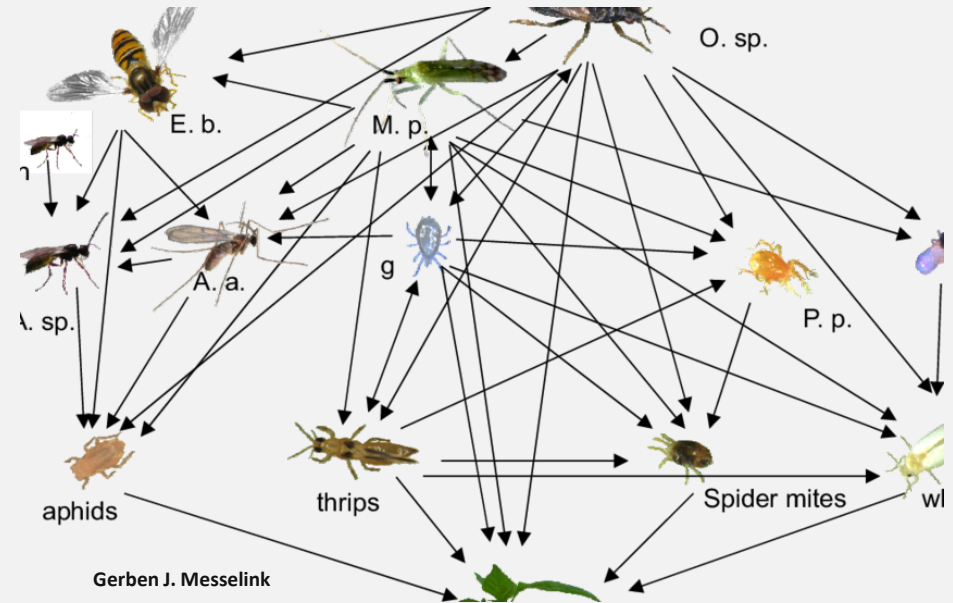
2016-2020 Rotating Panel Monitoring Locations



2016-2020 Rotating Panel Monitoring Locations - J. Yeh -- 10/17/23 -- NAD 83 -- UTM Zone 5

RESEARCH PERMITS

- Anna Becker PhD Candidate- Ohelo genomics
- Walter Hailes- High elevation effects
- Ryan Perroy- Erosion
- Dan Rubino and Brad Reil- Arthropod food web
- Norbert Schorghofer- Permafrost
- Heather Stever- Wekiu bug diversity
- Diamond Tachera- Water Isotopes





FUTURE GOALS

- Environmental Committee participation
- Restoration plan for Halepohaku
- Reassessing our monitoring plans for both arthropod and cultural sites
- Co-management with MKSOA

QUESTIONS?

