

ONLINE TRAINING

ADAPTATION

PLANNING AND PRACTICES

for Hawai'i Forests and Native Ecosystems

The Northern Institute of Applied Climate Science, and the USDA Northern Forests and Southwest Climate Hubs are offering the [Adaptation Planning and Practices](#) training as an online course for land managers (in a series of seven 1-hour sessions).

This unique opportunity provides hands-on training in considering climate change information and identifying adaptation actions for natural resources management professionals working in forests and native ecosystems. Participants will receive coaching and feedback on their own real-world climate adaptation project throughout the course.

PARTICIPANTS WILL BE ABLE TO:

- Identify locally-important climate change impacts, challenges, and opportunities
- Develop specific actions to adapt forests and native ecosystems to changing conditions
- Use the [Adaptation Workbook](#) to create their own "climate-informed" projects
- Better communicate with stakeholders about key climate change impacts, challenges, and opportunities



Southwest Climate Hub
U.S. DEPARTMENT OF AGRICULTURE



Northern Forests Climate Hub
U.S. DEPARTMENT OF AGRICULTURE



PACIFIC ISLANDS
CLIMATE ADAPTATION SCIENCE CENTER



EAST-WEST CENTER

• Access post-training support from NIACS and Climate Hub staff during project planning and implementation

REGISTER TODAY

DATES & FORMAT

Weekly January 25 – March 15, 2021

Seven sessions. Each session (1 hour) follows this format:

- Group lecture, followed by discussion and interactive activity.

GEOGRAPHIC FOCUS

Information will focus on forests, watersheds, and native ecosystems in Hawai'i, Maui, and O'ahu, specifically partner projects involved in the Hawai'i Drought Knowledge Exchange.

REGISTER ONLINE

www.forestadaptation.org/HawaiiAPPo

There is no registration fee thanks to support from the US Forest Service, Pacific Islands Climate Adaptation Science Center, and USDA Northern Forests and Southwest Climate Hubs.

QUESTIONS? Contact:

Courtney Peterson (courtney.peterson@colostate.edu),
or

Abby Frazier (abbyf@hawaii.edu)
to learn more about the course and whether it's right for you.

WHO SHOULD PARTICIPATE?

This training is designed for natural resources professionals working in forests, watersheds, and native ecosystems in Hawaiʻi. This includes but is not limited to foresters, natural resource managers, Kaulunani urban and community foresters, Hawaiian lineal descendants, Hawaiian Cultural Practitioners, conservation NGOs and non-profits, county and municipal employees, and consultants working on public, native, and private lands. Professionals providing Extension, service forestry, or technical assistance to foresters and woodland owners are also encouraged to participate. Individuals as well as small teams can participate in the course.

We ask participants to bring their own real-world projects.

Example projects could include:

- a forest management or stewardship plan for a property, parcel or watershed
- a wildfire management or mitigation plan for building fuelbreaks
- a habitat management plan for a wildlife species
- a restoration project in an urban natural area
- a community-based, co-management area project
- community groups focused on malama ʻaina projects



*Photo Credit: Abby Frazier, East-West Center;
University of Hawaiʻi at Mānoa*

Examples of forestry-related Adaptation Demonstration projects that have used the Adaptation Workbook are online at www.forestadaptation.org/demos.

HOW DOES THE ONLINE COURSE WORK?

The eight-week online course draws on a combination of regular webinars and discussions with all participants, as well as independent work time to create adaptation projects. Throughout the course, participants will develop (individually or in small groups) their own climate-informed adaptation project.

- **Seven 1-hour web meetings** bring together all course participants to present and discuss key concepts, and smaller group sessions to share insights and questions related to individual projects. We expect participants to attend all sessions, but meetings will be recorded for those who may need to miss a session. **The weekly meeting time will be determined based on the availability of participants.**
- **Assignments** will guide participants through the new material, actively engaging them with recorded presentations, the online Adaptation Workbook, and other activities. Participants will be assigned work to complete before each session, which is generally expected to take 2-4 hours to complete.

REGISTER!

Interested? Please register online by November 18, 2020

www.forestadaptation.org/HawaiiAPPo

COURSE OUTLINE

Registered participants will receive instructions regarding how to prepare for the training in advance of the first meeting session. Prior to the training, participants are asked to identify a project to be used during the training and provide some additional information to course instructors.

Session 1 (week of January 25) — Course Introduction; Defining Project Goals and Objectives

- Course objectives, instructors, and agenda
- Introduction to the Adaptation Workbook tool (tutorial)
- Defining project scope and management goals/objectives
- *Assignment 1: Define project goals and objectives (complete in preparation for Session 1)*

Session 2 (week of February 1) — Defining Project Goals and Objectives

- Climate projections and impacts on tree species, ecosystems, and regions
- Prioritizing vulnerabilities of greatest concern for management goals/objectives
- *Assignment 2: Assess climate impacts and vulnerabilities.*

Session 3 (week of February 8) — Evaluating Management Challenges and Opportunities

- Re-considering and revising management goals/objectives in light of climate challenges
- Practice articulating climate-adaptive management goals/objectives
- *Assignment 3: Evaluate objectives considering climate impacts.*

Session 4 (week of February 15) — Identifying Adaptation Strategies, Approaches and Tactics

- Meeting existing demands while preparing for future conditions
- Adaptation concepts: resisting change, enhancing resilience, and facilitating transitions
- Developing specific actions for climate-change adaptation
- *Assignment 4: Identify adaptation approaches and tactics.*

Break (week of February 22) — No session

- Use extra time to catch up on projects and have office hours with instructors

Session 5 (week of March 1) — Monitoring and Evaluating Effectiveness

- Tools for measuring effectiveness of implemented adaptation actions
- Capitalizing on existing data, inventory or monitoring processes/partnerships
- *Assignment 5: Monitor effectiveness of implemented actions.*

Session 6 (week of March 8) — Telling your Adaptation Story, Part 1

- Tools for measuring effectiveness of implemented adaptation actions
- Capitalizing on existing data, inventory or monitoring processes/partnerships
- *Assignment 6: Complete adaptation project plans.*

Session 7 (week of March 15) — Telling your Adaptation Story, Part 2

- Summarizing and pitching adaptation plans to partners, clients, and others
- Next steps for implementation

International Society of Arboriculture and Society of American Foresters Continuing Forestry Education credits will be requested for this course.

INSTRUCTORS

This training will be led by a team of experienced instructors specializing in climate adaptation:



Reanna Burnett, Jornada Experimental Range & USDA Southwest Climate Hub

Reanna Burnett is a graphic designer with 2 years' experience at the Southwest Climate Hub. Reanna graduated from New Mexico State University with degrees in Video Game Design and Creative Media Technology. She works as an editor on the Southwest Climate Hub podcast series, Come Rain or Shine, and helps develop outreach materials.



Maude Dinan, Jornada Experimental Range & USDA Southwest Climate Hub

Maude Dinan is a program specialist with the USDA Southwest Climate Hub in Las Cruces, New Mexico. She works with land managers and ranchers to identify household, community, and regional strategies and barriers to drought adaptation. She aims to support environmental sustainability, rancher well-being, and hazard resilience through connection and knowledge-sharing.



Kristen Giesting, Natural Resources Conservation Service & USDA Climate Hubs

Kristen Giesting works for the Natural Resources Conservation Service (NRCS) in southeastern Indiana and is a liaison to the Northern Forests Climate Hub. Her work involves linking climate adaptation approaches to NRCS conservation practices for forests and farms.



Lauren Kramer, USDA Southwest Climate Hub

Lauren Kramer is a Research Assistant with the USDA Southwest Climate Hub. Focusing on building rangeland resistance to climate change, Lauren manages data and outreach for Grass-Cast – a grassland productivity forecast. Lauren received a Bachelor of Arts in Ecology and Evolutionary Biology at the University of Colorado Boulder with a Minor in Spanish. Based in Durango, CO she spends her free time exploring the nearby mountains, rivers and deserts.



Courtney Peterson, Northern Institute of Applied Climate Science & Colorado State University

Courtney is a Research Associate in the Forest and Rangeland Stewardship Department at Colorado State University. One of her major roles is serving as the Adaptive Silviculture for Climate Change (ASCC) Coordinator, focusing on disseminating ASCC project findings and translating them into outreach and training opportunities with land managers and scientists working to manage forests for climate change adaptation.



Caiti Steele, USDA Southwest Climate Hub, New Mexico State University

Caiti Steele is Coordinator of the USDA Southwest Climate Hub in Las Cruces and College Associate Professor at New Mexico State University. Her research and outreach activities focus on water, agriculture and forest sustainability in the Southwest Hub region, in the context of both short-term disturbances such as drought and long-term climate change.