Southwest Regional Climate Hub and Climate Change in Hawaii

Clay Trauernicht and Jensen Uyeda University of Hawaii at Manoa College of Tropical Agriculture and Human Resources

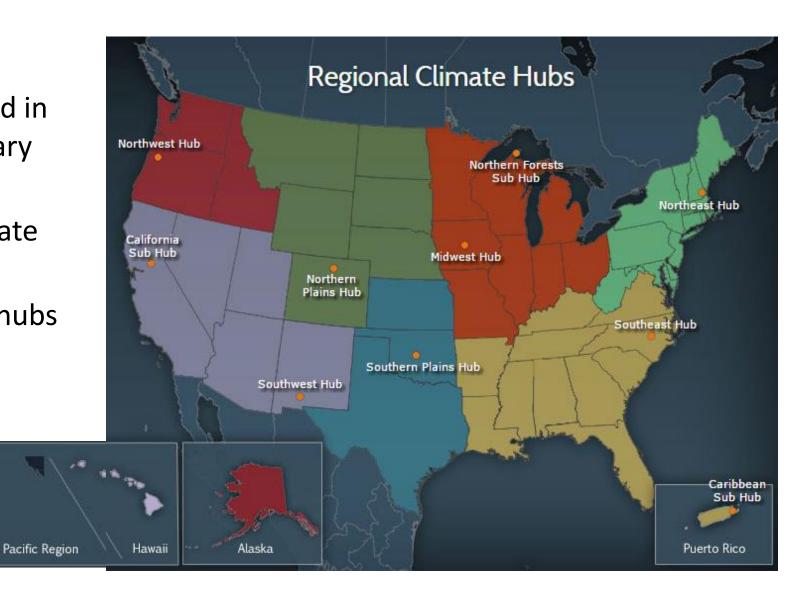






USDA Climate Hubs

- Formed in February 2014
- 7 Climate hubs
- 3 Sub hubs

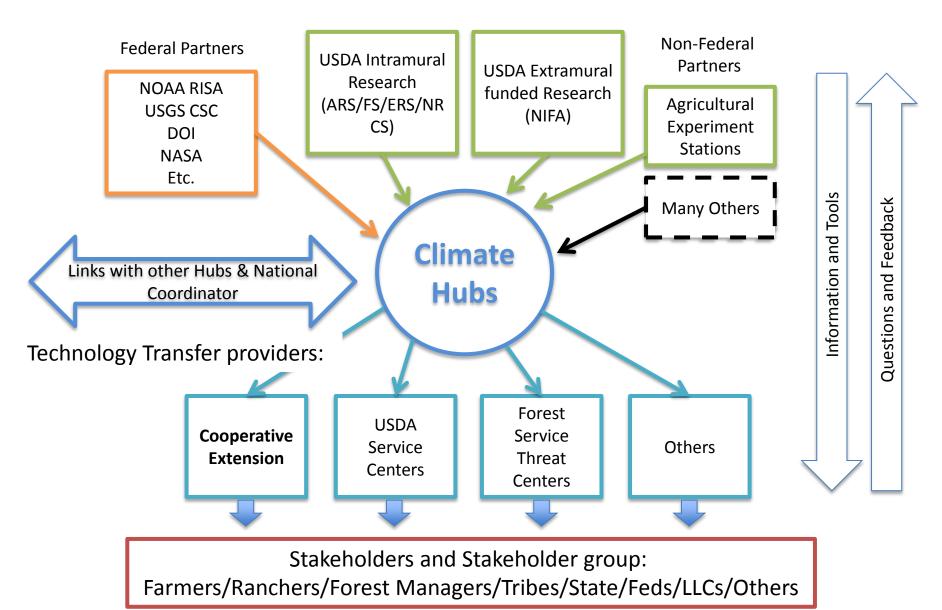


USDA Climate Hubs

- Multi-agency effort
 - USDA, ARS, Forest Service, NRCS, NOAA, DOI, Land
 Grant Universities (Cooperative extension)
- Maintain and Strengthen:
 - Agricultural Production
 - Natural Resource Management
 - Rural Economic Development
- Support Climate-informed Decision Making

Conceptual Framework for USDA Regional Hub

Science and Technology providers:



Objectives

- Provide Science-Based tech support for land managers
 - Drought, Heat stress, Flooding, Pests, Changes in growing season, Extreme weather
- Regional Assessment and Forecasts
- Education and Outreach
 - Mitigation strategies
 - Adaptation Planning

Southwest Regional Climate Hub

- Covers
 - Arizona
 - California
 - Sub hub
 - Hawaii
 - Nevada
 - New Mexico
 - Utah





Pacific Islands Climate Hub

- The Pacific Islands Climate Hub (PICH) was formed in 2014 as a vehicle for convening, sharing information, planning and delivering forums to educate and motivate further action on climate change
- Partners include leadership from Agricultural Research Center (DKY PBARC), Farm Service Agency (FSA), Natural Resources Conservation Service (NRCS), Forest Service (FS), Rural Development (RD), Animal and Plant Health Inspection Service (APHIS) and the College of Tropical Agriculture and Human Resources (CTAHR)

Ric Lopez, FS-IPIF 854-2601 or Diane Ley, FSA at 541-2600

Cooperative Extension







University of Nevada Cooperative Extension



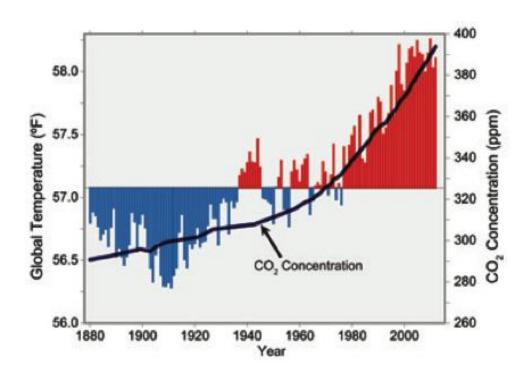


Cooperative Extension Service

College of Tropical Agriculture and Human Resources University of Hawai'i at Mānoa

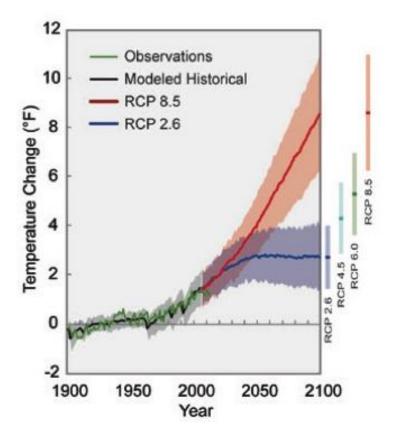


Warming trends linked to greenhouse gas emissions



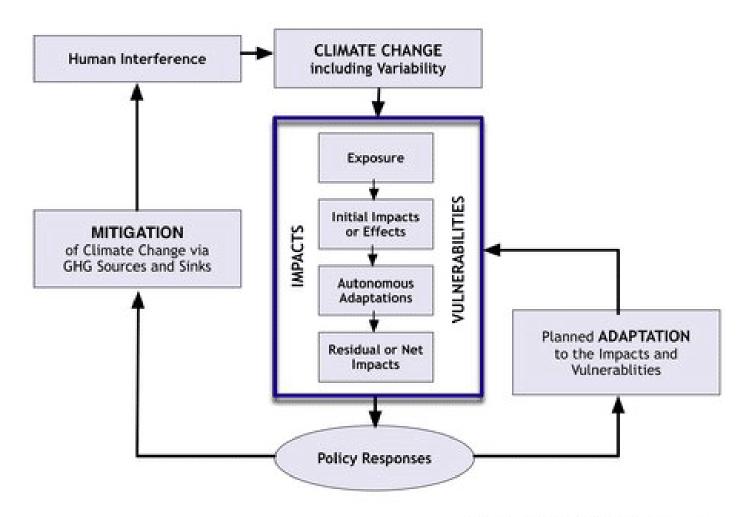
Melillo et al. 2014. National Climate Assessment.

Warming trends linked to greenhouse gas emissions

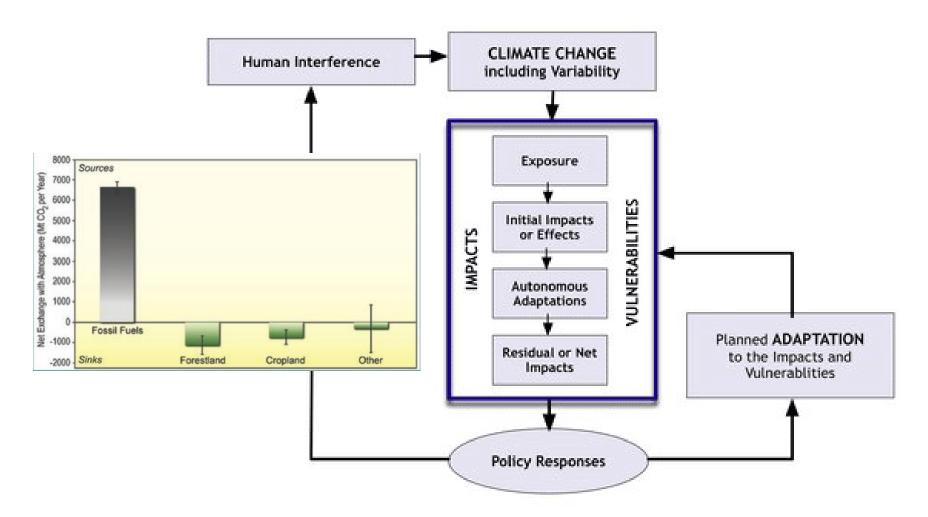


Melillo et al. 2014. National Climate Assessment.

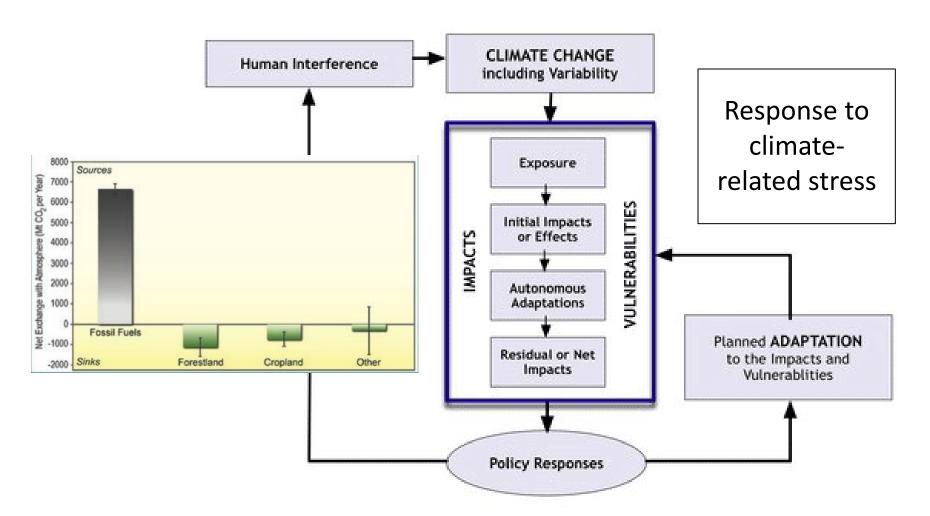
Mitigation and Adaptation



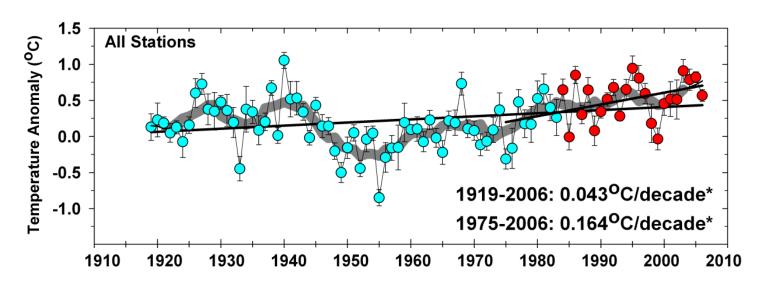
Mitigation and Adaptation



Mitigation and Adaptation



Hawai'i Temperature Index



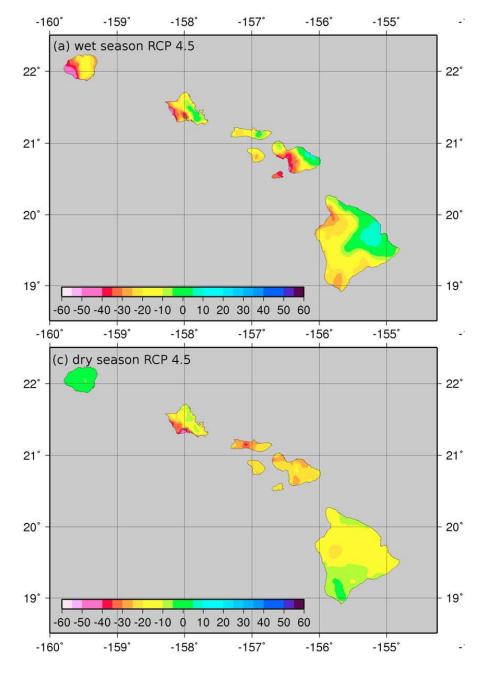
Giambelluca, T.W., et al. 2008. Geophysical Research Letters 35, L12702

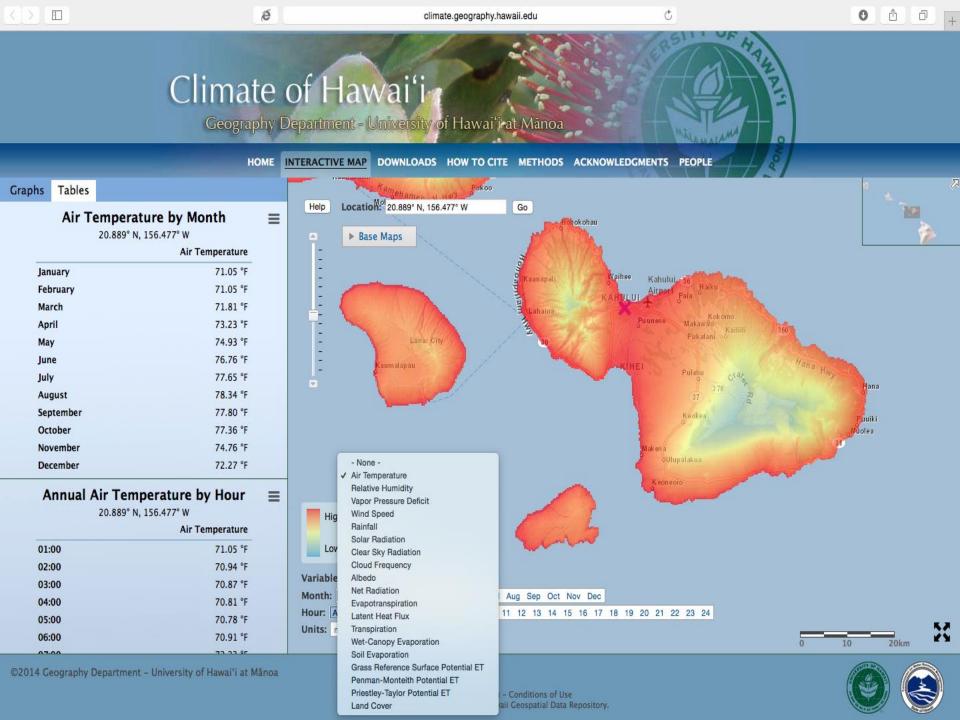


RAINFALL:

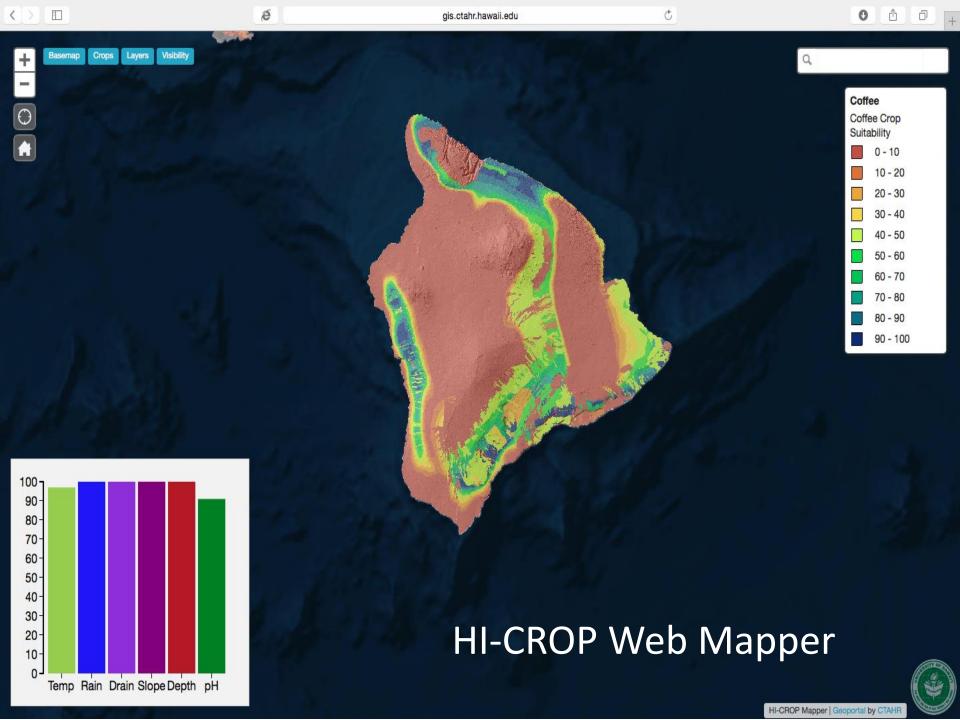
- Declines in dry areas
- Increases in wet areas

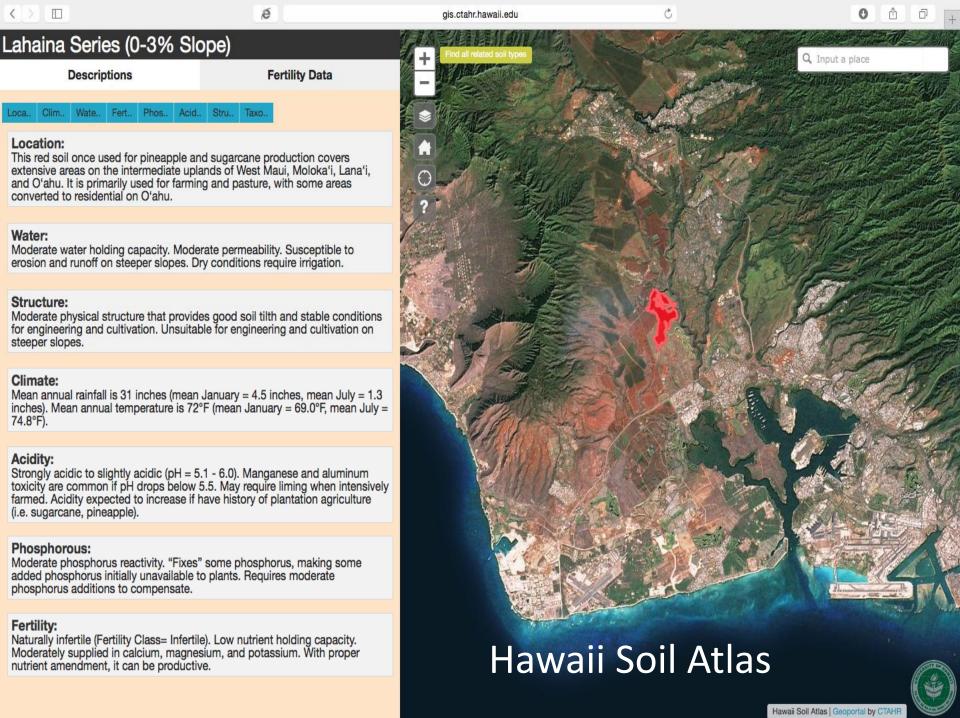
Ellison Timm et al. 2015. J. Geophysical Research: Atmospheres 120:92-112

































WHAT KIND OF INFO WOULD YOU NEED AS AN EDUCATOR TO COMMUNICATE TO YOUR CLIENTS?

WOULD YOU (OR YOUR CLIENTELE) BE INTERESTED IN THIS INFORMATION?

