Hawaii-Pacific Islands Cooperative Ecosystem Studies Unit

What are Cooperative Ecosystem Studies Units (CESUs)?

•Regional partnerships between government & universities/NGOs

•Based at university campuses and organized into a national network

•Ecosystem studies include biological, physical, social and cultural sciences

•Provide research, technical assistance, and education for natural and cultural resource ma

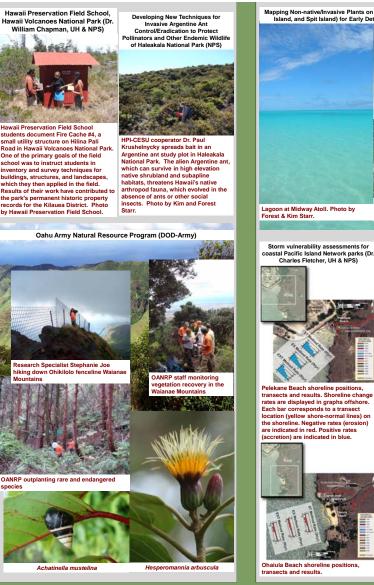
National CESU Network Map

CESU Cooperative Ecosystem Studies Units Network Sec. Renall-

What is the Hawaii-Pacific Islands Cooperative Ecosystem Studies Unit (HPI-CESU)?

A coalition of governmental agencies, NGOs and universities promoting cooperative research, education and technical assistance to support better stewardship of imperiled natural and cultural resources within the Pacific region





Select HPI-CESU Projects

Mapping Non-native/Invasive Plants on Midway Atoll NWR (Eastern Island, Sand Island, and Spit Island) for Early Detection and Rapid Response (USFWS)



Atoll, Ph oto by Forest & Kim Star



Kim and Forest re-discovering rare native popolo plant (Solanum nelsonii on Spit Island, Midway Atoll,

Restoration of the Main Seawall, Kaloko-Honokohau National Historic Park (Dr. David Duffy, UH & NPS)



Pelekane Beach shoreline positions. transects and results. Shoreline change rates are displayed in graphs offshore Each bar corresponds to a transect location (vellow shore-normal lines) on the shoreline. Negative rates (erosion) are indicated in red. Positive rates

> **Baseline Assessment of the Coral Reef** Habitat Adjacent to the Shores of Kohanaiki Development in Kaloko-Honokohau National Historical Park (Dr. James Beets, UH & NPS)



A diver photographs coral cover along a transect in Kaloko-Hone National Historical Park





Hank Oppenheimer, Maui Nui PEF Coordinator, collects the fruit of an extremely rare mint, Phyllostegia stachvoides, a species that numbers ewer than 50 plants and known only from Maui Molokai and Hawaii Island The collected seeds are stored at offsite facilities to serve as a safety net Brighamia insignis, Photo by Anya against extinction while the threats to he wild plants are managed. Plants



na ssp. peleana. Photo Anya Tagawa. by Rob Robichaux

Phyllostegia floribunda. Photo by

