

Helicopters, Slingloads and Ladders: Conservation in Action on Kauai

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Kauai – A Biodiversity Hotspot

- Highest # of single island endemic plant species – 225
- Largest remaining populations of Newell's Shearwater, Nene and Koloa
- Eight species of forest birds, three endangered and one threatened



Kauai – A Biodiversity Hotspot

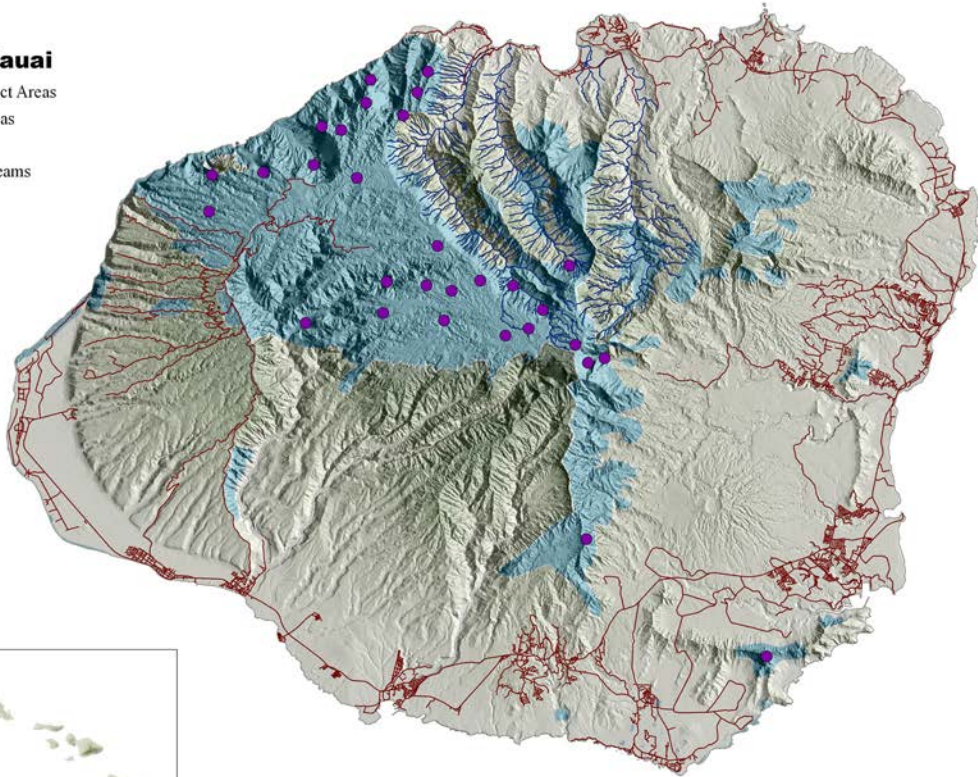
- 188 T&E species
 - 163 plants
 - 87 PEPPs
 - 25 animals



Why use helicopters?

Island of Kauai

- Kauai Project Areas
- Priority Areas
- Roads
- Priority Streams



Logistics- Paperwork

- Training – OAS
 - <https://www.iat.gov/>
- Cooperator Agreements
- Safety Plans
- Flight Plans

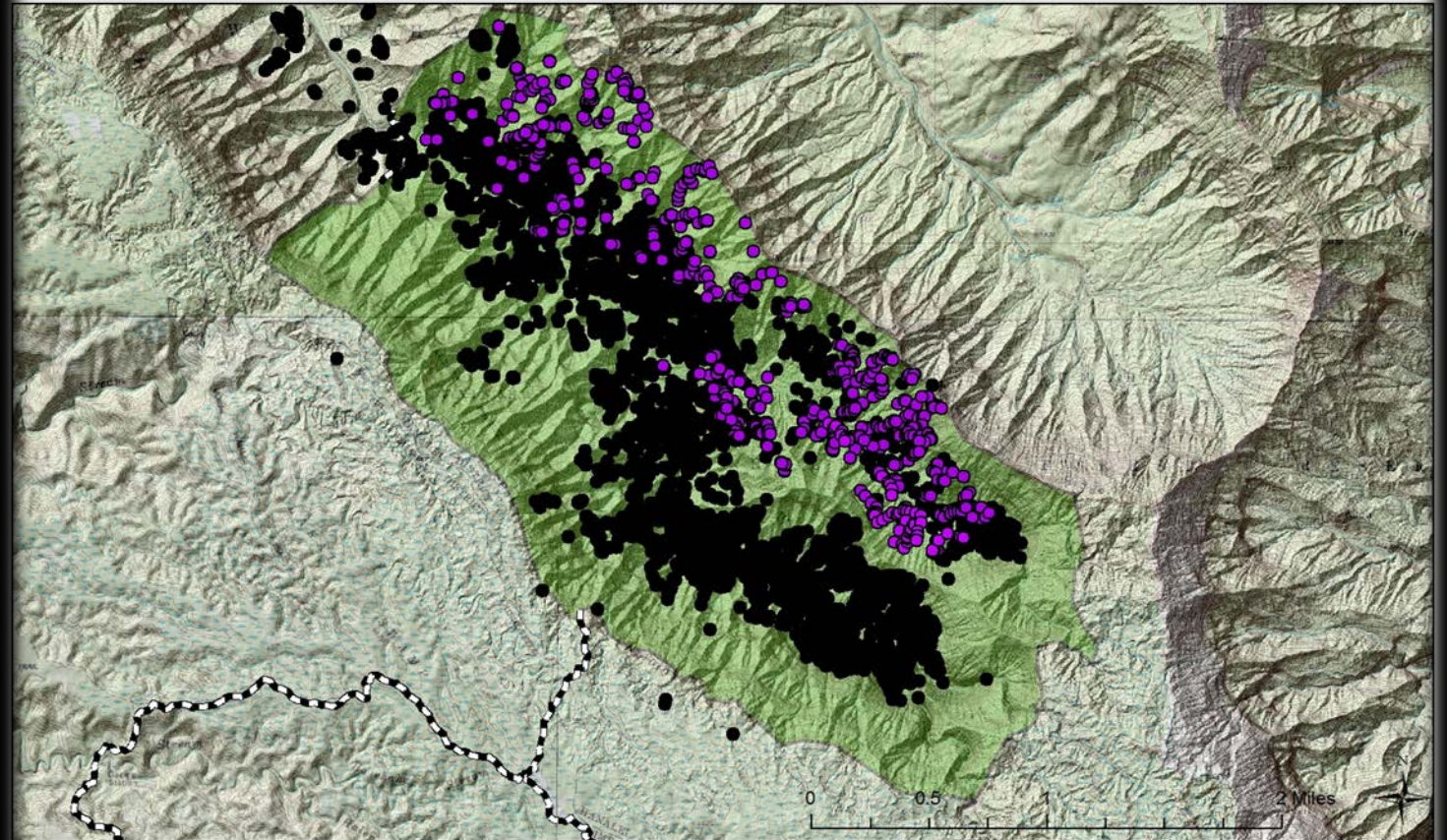


Logistics- Communications

- Flight following
- Repeaters
- Radios etc...



The Nature Conservancy – Australian Tree Fern Control



**Aerial Weed Control:
Australian Tree Fern (ATF)
Wainiha Valley FY09-18**

- 1st and 2nd Pass
- 3rd Pass
- Watershed Protection Fences
- Wainiha Management Unit

Map Created: 7/12/2018
Map Projection: NAD83, Zone 4N

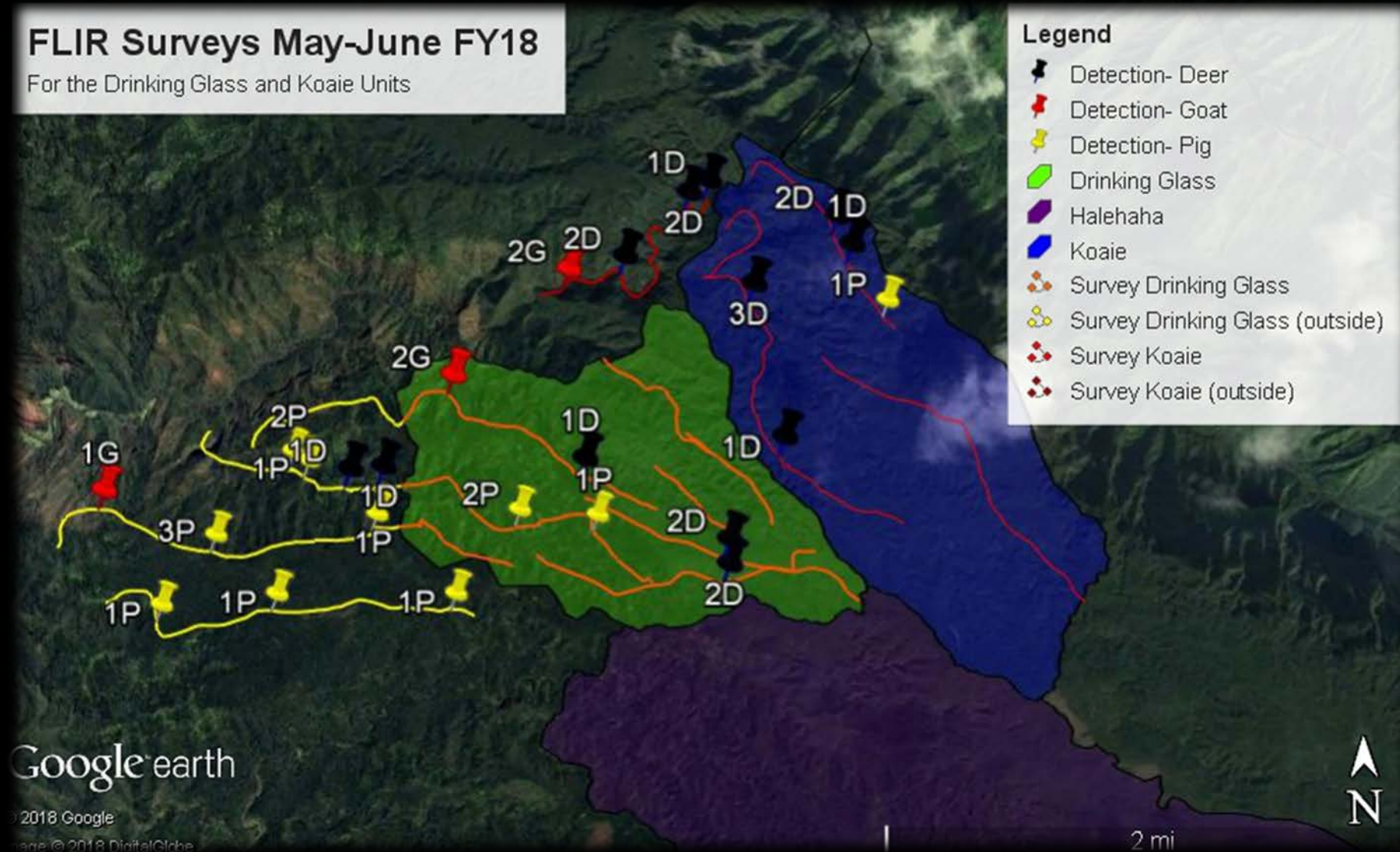


Area of Detail

The Nature Conservancy – FLIR Surveys

FLIR Surveys May-June FY18

For the Drinking Glass and Koaie Units





Kauai Endangered Seabird Recovery Project – Access



Kauai Endangered Seabird Recovery Project - Translocation



Kauai Endangered Seabird Recovery Project – Song Meters



Kauai Forest Bird Recovery Project – Aks Egg Collection





Kauai Forest Bird Recovery Project – Puaiohi Release





Results

- Remote fence installed= >17 miles
- ATF killed = 22,893
- 310 pigs, 49 goats, 6 deer dispatched
- 50 Hawaiian Petrels and 26 Newell's Shearwater chicks translocated
- 63 Akikiki and 26 Akekee eggs collected
- 240 captive-bred Puaiohi released



Future

- Short haul to access species on cliff faces
- Implementation of Sterile Insect Technique (*Wolbachia*) to treat mosquitoes across the landscape for Hawaiian forest birds

Mahalo!

Kauai Natural Area Reserves
Program, San Diego Zoo Global,
National Tropical Botanical Garden,
Kauai Plant Extinction Prevention
Program, Kokee Resource
Conservation Program, Kauai
Invasive Species Committee, UH
College of Tropical Agriculture and
Human Resources, Jack Harter
Helicopters, Mauna Loa Helicopters
and Windward Aviation

