

Forest Service Review Guam 2019

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- Grant Project: Radio Tracking Rhino Beetles
- Pacific Island Forestry Professional Workshop
- Impact of Invasive Insects on Guam's Dominant Trees
- Change Analysis Using Forest Survey Data
- Guam Biodiversity Inventory

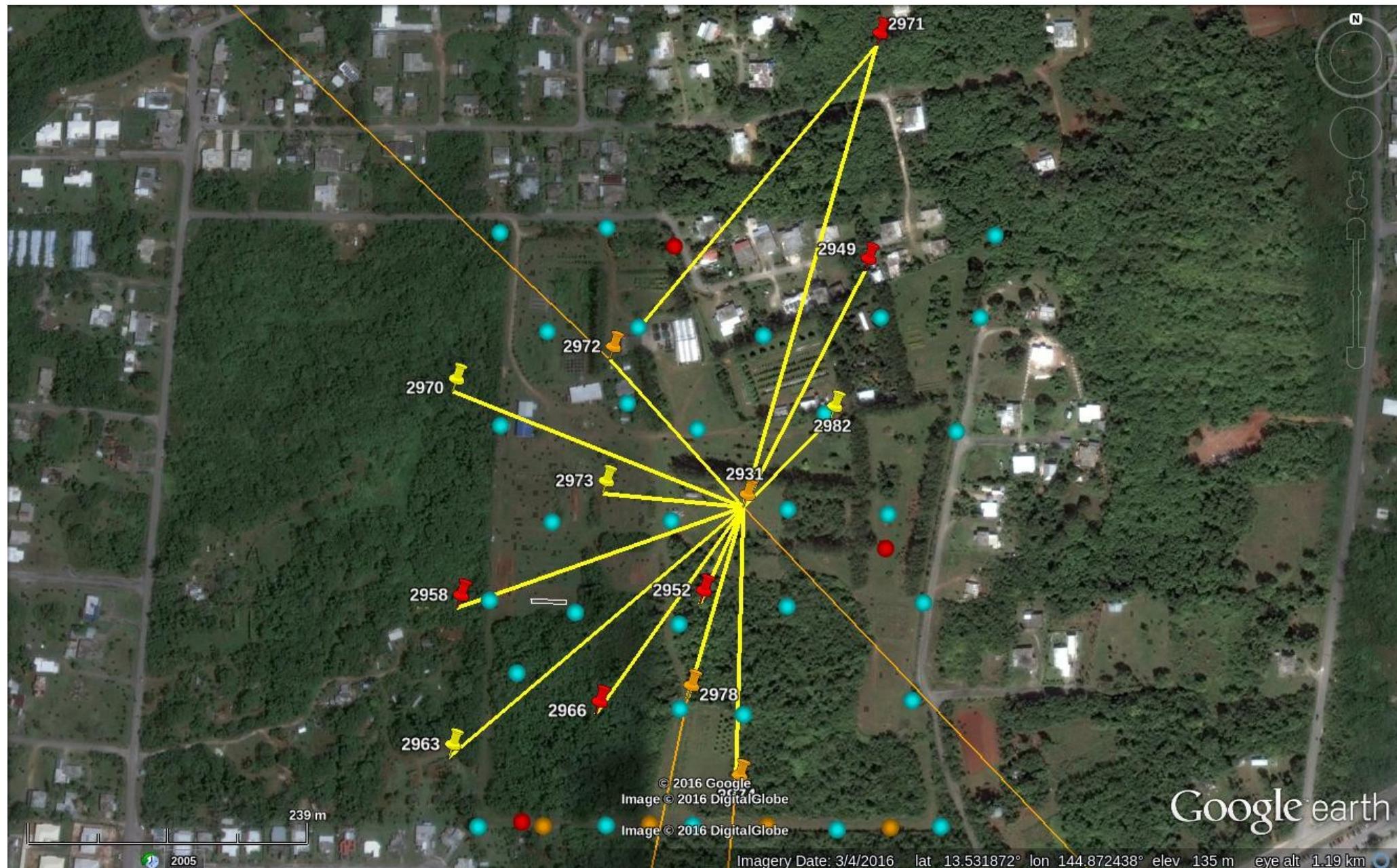
Detector Dogs for Locating Breeding Sites



Detector Beetles for Locating Breeding Sites



Detector Beetles for Locating Breeding Sites



Judas Beetles: Discovering Cryptic Breeding Sites by Radio-Tracking Coconut Rhinoceros Beetles, *Oryctes rhinoceros* (Coleoptera: Scarabaeidae)

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2017 Pacific Island Forestry Professionals Workshop

Concurrent Session 1B: Forest Health Protection: **Entomology**

Tuesday afternoon, April 4

3rd Floor Unnai Ballroom 3, Westin Hotel, Tumon Bay, Guam

Presentations

- Introduction
- Biological Invasion of Guam
- Coconut Rhinoceros Beetle
- Asian Cycad Scale
- BREAK
- Little Fire Ant
- Emerging Forest Insect Pest Issues in Micronesia
- Access to Information on Forest Insect Pests in Micronesia
- Using free Cell Phone Apps for Forest Pest Surveys
- Open Discussion
- Acknowledgment

Moore, Aubrey. 2017. "Entomology Section for Pacific Island Forestry Meeting."
<https://osf.io/a6t7v>

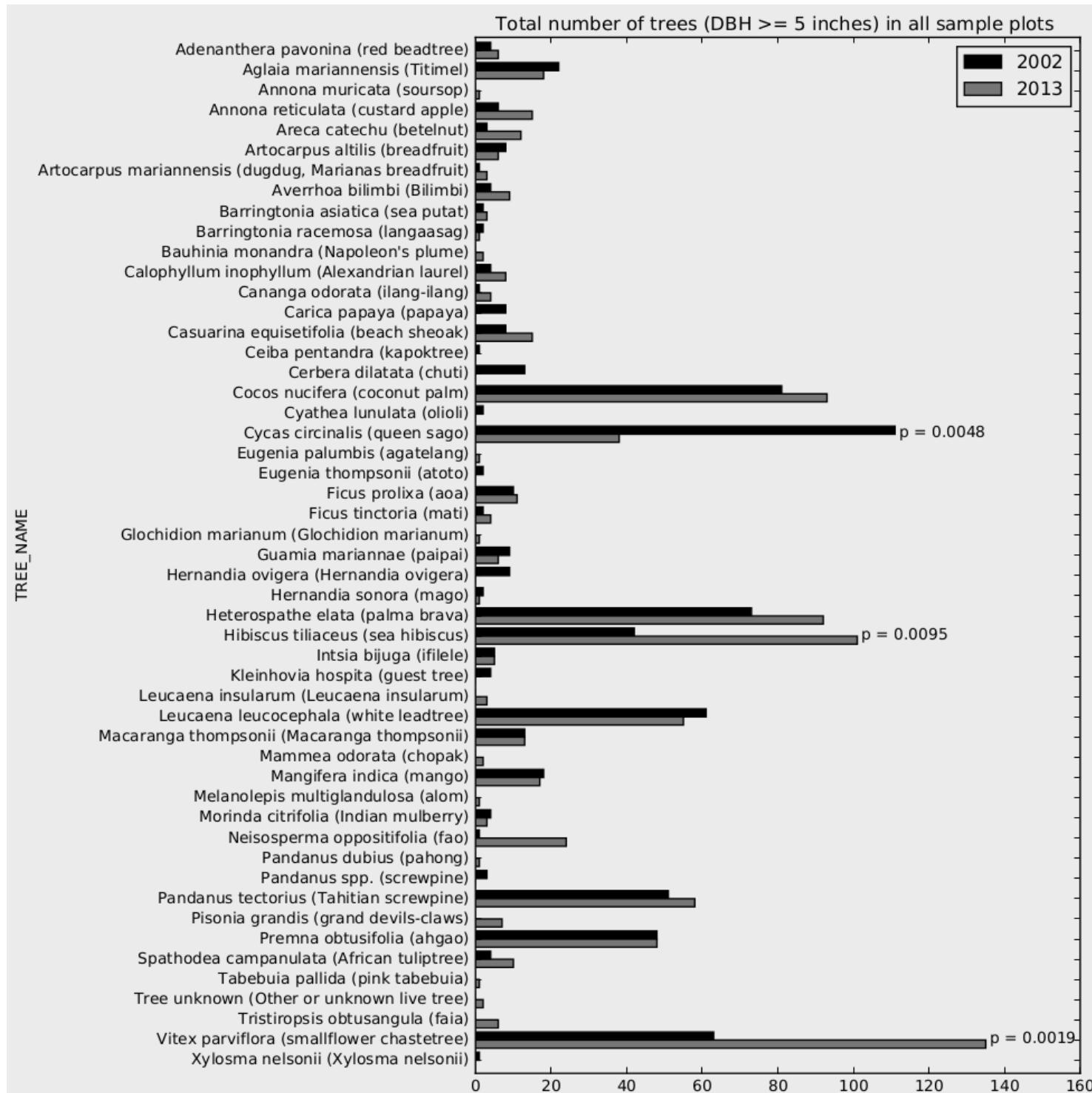
Dominant Trees in Guam's Forests are Threatened by Asian Cycad Scale (ACS) and Coconut Rhinoceros Beetle (CRB)

| Threat | Species | Status | Tree count ¹ | % of total tree count |
|--------|------------------------------|------------|-------------------------|-----------------------|
| ACS | <i>Cycas micronesica</i> | endemic | 1,571,556 | 16% |
| CRB | <i>Cocos nucifera</i> | native | 1,162,494 | 12% |
| CRB | <i>Heterospathe elata</i> | introduced | 1,075,552 | 11% |
| | <i>Vitex parviflora</i> | introduced | 902,990 | 9% |
| | <i>Leucaena leucocephala</i> | introduced | 890,217 | 9% |

Tree census data source: J. A. Donnegan et al. 2004. Guam's Forest Resources, 2002. Available from:

http://www.fs.fed.us/pnw/pubs/pnw_rb243.pdf

¹Estimated number of trees with DBH greater than 5 inches.



System design for the Guam Biodiversity Inventory

