



**Coordinating Group on Alien Pest Species (CGAPS) Meeting Agenda**  
**9:00 am – 12:00 pm, Friday, September 17, 2021**  
*(this will be remote-participation only, no physical meeting location)*

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**\*These notes are uncorrected by speakers and participants—they represent a sense of the meeting and information shared. Readers and users are urged to verify data or information with the speaker.**

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**9:00 - 9:10**                    **Welcome and Introductions:** Chair, Benton Pang

**9:10 - 9:20**                    **HDOA-Plant Industry - PQ, PPC updates:** Becky Azama, Darcy Oishi

- Becky: Introducing Helmuth Rogg is the new Plant Industry Administrator. 2nd week in the position. COVID-19 restrictions: visitors require proof of vaccination. Jonathan Ho is now Inspection Chief. Trenton is the Invertebrate specialist. Recruitment: able to hire one for Maui. Prepping for christmas tree season. Including COVID restrictions. Coqui frogs: large population in Waimanalo. Captured a skunk at Pier 1. Intercepted live coral being brought into the state, per DAR.
- Darcy: Helmuth will be taking over plant meetings. Darcy is taking over for plant control. Coffee leaf rust research is ongoing and has been found on all islands statewide. Found it in Waipio valley and Ka'u on Hawaii Island. We are working with Tracy on EA's for biocontrol agents. Chromolena biocontrol being worked on. Looking for host range testing on Gall fly. Got a number of small insect detections. Queensland Longhorned Beetle having detections near airports. Obvious concern of movement of this species. No new hosts for QLB at this time.
- [https://www.aphis.usda.gov/aphis/ourfocus/planthealth/import-information/commodity-import-approval-process/!ut/p/z1/fU-7DslwDNz5ii6MyC1CPMYKUMtDzG2WyECgoSEpqcvj7wlRBSzg4Xxn31kysE4QdFxB5oijLfqwDRe5RFJGo0KMsjZkG-iaRKOB9E6mc-iME4ni1U6Gob9ZARLH\\_zkvwHY\\_2zWZlv7u0EuT5cLi4HtjCZxJ8iwKmTNvdTEldxatI9uWCM3jeUHs2tqryqFbl8IVFT4gTxXpKnWtz4GW0p6OUILEVh1F7YnjtbN4r8z1CVLH8CY3fSGw!!/](https://www.aphis.usda.gov/aphis/ourfocus/planthealth/import-information/commodity-import-approval-process/!ut/p/z1/fU-7DslwDNz5ii6MyC1CPMYKUMtDzG2WyECgoSEpqcvj7wlRBSzg4Xxn31kysE4QdFxB5oijLfqwDRe5RFJGo0KMsjZkG-iaRKOB9E6mc-iME4ni1U6Gob9ZARLH_zkvwHY_2zWZlv7u0EuT5cLi4HtjCZxJ8iwKmTNvdTEldxatI9uWCM3jeUHs2tqryqFbl8IVFT4gTxXpKnWtz4GW0p6OUILEVh1F7YnjtbN4r8z1CVLH8CY3fSGw!!/)

**9:20 – 9:25**                    **HISC:** Chelsea Arnott

- Our council approved the budget on Aug. 30th. Working with the Resources WG on a debrief of the budget process. For members and applicants, we are working with them to have a clear transition. Rob Hauff has been taking over some of Josh's civil service position duties. Looking for funding for Mamalu Poepoe (pest monitoring program at airports). Put in a request for funding. We are in the last year of the 5 year pilot project. Received approval for HISC rulemaking.

**9:25 – 9:30**                    **USDA APHIS current issues/opportunities:** Dorothy Alontaga

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*CGAPS Steering Committee: Dorothy Alontaga, USDA APHIS; Chelsea Arnott, HISC; Becky Azama, HDOA; Jodi Chew, USDA FS; Rebecca Chong, DHS CBP; Mark Fox, Emeritus; Bryan Harry, Emeritus; Alan Holt, Emeritus; Angela Kieran-Vast, NAVFAC; Michael Melzer, UH CTAHR; Brian Neilson, DLNR DAR; Benton Pang, USFWS; Adam Radford, MISC; David Smith, DLNR DOFAW*

- Dorothy: Under the new administration, one of the things that has changed is approving commodities from other nations. There are over 10 stakeholder commodity pre-assessments. A lot of risk assessments are going through and starting to get done. Most of them include Hawaii. Comments are due by Oct. 11th. Very specific language. The importation of fresh mangoes for consumption from Egypt. In the stakeholder list, they must give comments first. Mangoes have a disease in the U.S. but not in Hawaii. Mangoes got taken off the list. As Hawaii is being included in more requests for fruits and vegetables it is important to see if you know about diseases and other pests, you should make comments on the risk assessments. Preliminary consultation of the 10 risk assessments should be commented on. This list is available for the public to comment on. Anyone can be a stakeholder. It is called the "Commodity import approval process". Type US APHIS in the search bar. DOA is able to provide comments but they don't. Maybe Mike Melzer can make comments. Helmuth will be looking at some of the pest risks and going through and making comments on behalf of HDOA. CGAPS is also willing to submit comments and willing to echo HDOA comments.
- [https://www.aphis.usda.gov/import\\_export/plants/plant\\_imports/process/downloads/egypt-mango-ir-radiation-pra.pdf](https://www.aphis.usda.gov/import_export/plants/plant_imports/process/downloads/egypt-mango-ir-radiation-pra.pdf)

**9:30 - 9:35                    DOH mosquitoes/vector monitoring: Grace Simmons**

- Grace: We routinely set up mosquito traps at airports. On Aug. 9th an Aedes Aegypti was found at Pier 2. We set up more traps in the surrounding area and were able to get on to some secure locations with the help of Mamalu Poepoe staff. We have not found anymore Aedes aegypti but found ?. Looking to trap until early October. Some traps have already been stolen. We will continue to monitor and provide details on that. So far we have not done any genetics on the found Aegypti but we are looking at testing soon. According to the CDC we should be testing within 24 hours of capture (per Leyla).
- Lessons learned for future access to these areas: I think although we had cards for access to secure locations we were talking to the wrong people. We needed the right staff to talk to and went through David Rodriguez (HDOT).
- We lost our entomologist on Maui. We will start recruiting for Maui staff. From HISC funding, we are looking at doing more research with 3 mosquito species for Wolbachia research. Press release was drafted but not sent out.

**9:35 – 9:40                    DHS Customs & Border Protection activities in previous Qtr: Rebecca Chong (absent)**

**9:40 – 9:50                    DLNR-DAR AIS, DOFAW: Natalie Dunn; Rob Hauff**

- Natalie (DAR): We continue to provide support for invasive algae in NWHI. Working with Smith lab at UH. Urchin hatching at Waikiki has finished and Kaneohe bay is ongoing. Harbor monitoring project has been retrieved. Worked with partners at NOAA for hull inspections. Ongoing risk assessment projects for biofouling. Stony coral tissue loss disease group still meeting.
- Rob (DOFAW): We are recruiting for staff. The most relevant position is the HISC Coordinator position. We converted the position to a NARS specialist so the qualifications are more broad. The position should be going out in the next week or two. Other positions open are a protection forester on Kauai and our administrative branch for Forestry positions are still open and looking to hire internally. For

upcoming leg session, we are trying to restore some positions and hopefully we can ask for funding for HISC and ROD. Christmas Berry Biocontrol EA (<https://storymaps.arcgis.com/stories/586efc82d17b4f90a67e03135b9f1511>) is currently being worked on. Still working on the outreach portion and more consultations done. We are looking at talking to more beekeepers. We also want to reach out to more ranchers as well. Submit comments to: [www.biocontrolhawaii.org](http://www.biocontrolhawaii.org)

**9:50 - 9:55**                    **ROD: Rob Hauff**

- Rob: Hasn't been any major expansions on Kauai, but finding both species in the same areas. Working primarily on control efforts in Kokee. Trying different control methods and received Experimental use permit from HDOA to try different repellents. On Oahu, no new detections (only 8 detections). Maui nui still has had no detections since the initial detection. On Hawaii Island, status quo. Not active in dry areas. No active dieoff in the Puna area. They will be surveying this Puna area on next round of surveys. As far as research, Tom Harrington continues the genetic work. For Lukuohia, seeing distinct episodes and with huliiohia there aren't any drastic differences and may huliiohia has been here longer than Lukuohia. The ungulate work that has been ongoing, Ryan Perroy folks have just published a paper (available on ROD website). Also, working with UH Dept. of Meteorology looking at models of wind spread throughout the islands. In soil sampling they are finding viable spores in soil. Got 875K in funds from the legislature and they just got released. Working with collaborators for Austropuccinia rust on looking for different strains and behaviors of the disease. Looking at putting together a proposal for looking at this disease further. Working with USDA for prohibiting Myrtaceae imports into the state.

**9:55 - 10:05**                    **UH CTAHR Kauai: Roshan Manandhar**

- Roshan: Cooperative Extension. Update on CBB, confirmed last year on the Westside of the island. On the East side we confirmed it in Mid-June. At the CTAHR station we do not have any coffee trees because we had to demolish all of them because of CBB. Coffee rust was confirmed in Kilauea in July and has been also detected at 2 other sites. CBB and CLR WG meets every few weeks to address concerns. Looks like we will not be able to eradicate and looking to implement IPM practices. Coffee Nematode is only found in Kona and doing an island wide survey on Kauai to see if it has spread. We did not find this nematode on Kauai yet. ? Blackscale was found in 2016 and has been found in other farms and it looks like it has spread. Avocado lacebug was found in 2020 and is continuing to be found in farms (Moloaa). Surveying for an Asian nematode affecting fruit trees (guava and jackfruit) and sent in 8 samples to the lab. So far we have not found it on Kauai yet. Lesions on Banana plants and sent samples to lab. The disease is called fusarium and is not banana wilt but is a complex of 3 diseases. Scale insect from Master Gardener called Star scale? and is the first record on Kauai. Main host is mango and on Kauai is found in surinam cherry. Collaborating USGS on ROD work. Looking at rearing beetles from bolts. Has been doing this work for over a year. Putting traps in Kokee and processing the beetles and bolts.

**10:05 - 10:15**                    **Stony Coral Tissue Loss Disease: Natalie Dunn**

- Natalie: Decimating corals in the Caribbean. Stony Coral tissue loss was found off of Florida. It has spread across Florida and is now found in 17 areas in the Caribbean. Impacts a large number of coral

species (22 in Florida). High disease spread of 60-100% mortality without human intervention. Dominant current off of Florida does not account for spread throughout areas. Commercial ports and shipping lanes looks like ballast water may be responsible for spread. The bacteria does not seem to be the cause of the disease. Scientists are researching this further. Across seasons and years, certain environmental factors make the spread worse. What we've learned over the last 7 years, we still don't know how it is being transmitted. Don't know why some corals are more susceptible. With all the stressors across the world with corals there is no baseline for this disease. Florida has received about \$33mil for research. Collaboration in the pacific, we want to research this in the pacific in the next 5 years. We want to help and support the biofouling and hullfouling efforts here in Hawaii. We want to support outreach and education on SCTL. Last day for Natalie because she is going to a PHD program.

**10:15 – 10:25            Two-Lined Spittlebug: Mark Thorne**

- Mark: Was recorded in Kona in 2016 where it was found in pastures. In Hawaii, it has spread to over 176,000 acres. Kikuyu grass is highly susceptible. Loss of these grasses, conversion of lands to noxious weeds and less ranching can occur on these lands. Started monthly surveys in 2017. Damage from spittlebug outbreaks has been detrimental. First funding from HISC, HDOA, and Hawaii county. Grants have funded surveys, biocontrol, research into its biology, and outreach and education. Extension products like apps, reports, etc will be made available for the public. Research focus has been host plant resistance trials (grasses). Currently conducting several pesticide trials. Early work on biological control with ARS is ongoing. Outreach efforts focuses on field days and workshops. Worked with BIISC and NRCS to put out rackcards and videos and PSA's. We will be releasing factsheets and reports soon. Developed 5-year plan. Vital to conduct monthly surveys. IPM strategic plan being worked on. Carrying out some field trials and starting next year. Prediction surveys undergoing and looking at aerial imagery for damage of new outbreaks. Should have a response team for ranchers for new outbreaks and provide ongoing support to ranchers. It is spreading about 35,000 acres per year and is critical to continue research and development of IPM protocols. No research has been done with the landscaping industry or turf industry. 2-lined spittlebug in its home range has been detrimental to most turf grasses so it could impact the landscaping/hotel industry. We haven't tested any native grasses for host plant specificity because we have a limited capacity. We plan to expand that to test more grasses in the future.

**10:25 – 10:30            BIISC: Springer Kaye**

- Springer: INVASIVES: Direct or indirect impacts. Biotic interactions. Community assembly. BIISC eradication target has to be feasible to control. Since about 2008 or 2009, we've been working on some of these targets. Smokebush, we've got a flatline with treatments. Pampas grass was our first eradication species and as of last year we have successfully eradicated it from Hawaii Island. Foxglove, found 3 mature plant and a few keikis and we have eradicated it. lilex is clonal and is making it's way down to zero as well. One population of Gooseberry that we eradicated in 2016 but found some in 2017. We are making progress on eradication. Photinia is found in Hakalau area and is being worked on for eradication. The area is large and dense and has taken 5-6 years to find a total of 7,000 plants. Juvenile plants have increased but we are not too worried about that. Working on Moluccan Raspberry for the last 5 years. It forms thickets and takes up a lot of space. Numbers are decreasing and have killed 85,000 plants in the last 5 years. BIISC has been doing a lot of work and making way on new

targets like giant honeysuckle, Bandicoot berry, and redwing. Will have these new targets on the newly revamped website.

- Per fern: are any of those plants commercially available through stores. Of course, it is still legal to sell these plants but through our plant pono program we add these targets to these and participating nurseries do not sell these plants. ATF has not been seen or sold in nurseries on Hawaii Island for the last 3 years!

**10:30 – 10:40**            **Break**

**10:40 – 10:45**            **USFWS: Benton Pang/Joshua Fisher**

- Benton: One staff in Saipan working with BTS. On labor day, Saipan staff found a coqui frog in cargo from port. Manifest found that the cargo came from Hawaii to Guam. Coqui is not found in Saipan or Guam. They have been doing night surveys and no new finds of coqui as of yet.

**10:45 – 10:50**            **USFS: Susan Cordell**

- Susan: We got additional funding in FY21 to support ROD research. Primarily for mechanisms and pathways of the disease along with resistance work. Ridge to reef project. Going to hire a biocontrol staff to help Tracy Johnson. Keeping a tech position and hoping to hire a new scientist in this upcoming year. We are looking for a plant pathologist and a social scientists. Strategic planning for Hawaii and Pacific islands and we are all on board for moving along. FIA project: poised to be finished in February and it will be exciting to get this second census done. Working with a scientist from mainland on forest research looking at top of canopy and seedling. Paper concluded non-native species 29% of trees were non-native and 66% of seedlings were non-native. The paper is under review at the moment and hopefully it will be published soon.
- Michael: Been with Navy Reserve training. Back in May and June there was a study looking at Pholinis noxious? looking at genetic sampling. A bunch of projects with reforestation in Guam.
- Jody: We're not sure if the meeting between USDA, FS, and Governor in the mainland happened but we have prepped leadership on Biocontrol facility and other topics. We have been keeping an eye out on the infrastructure bill for additional funding.

**10:50– 10:55**            **UH (DoD Legacy Grant): Paul Krushelnycky**

- Paul: Been working on the DOD legacy grant over the last couple of years. This portion of this work was funded by HISC and HDOA. Looks at invasive ants and how it affects species on DOD lands in Hawaii. Yellow faced bees, picture wing flies, and damselflies are the 3 species found on DOD lands in Hawaii. There were 3 main components of projects: map of breeding habitats on Oahu and Kauai, efficacy of amdrol baits that target ants, and look at the efficacy of a new method known as hydrogels (used to deliver sugar water baits). In terms of first component, we mapped 4 areas at MCBH, Dillingham military reservation, Waianae sites (Schofield or OANARP), Kokee sites (state parks near DOD lands). These maps are available for public. Second component looks at bait for saving picture wing flies. We sampled in field plots and found that there is no real evidence that these areas were impacted by treatments. Small plots so could be a reason there was no measurable effect to these plots. We looked at direct impacts by baiting amdrol bait and found no evidence that the ants were attracted to the baits. It should be fairly safe to broadcast these baits in drosophila areas. The 3rd component looked at

hydrogels and looked at 3 different types. Looked at 3 different pesticides and all 3 were found to be effective. We looked at non-target risks and some need to be taken into account like pollinators (yellow-faced bees) and direct effects like pesticides use. We are looking at getting permits for these techniques and pesticides because everything is currently in the experimental use phase.

**10:55 – 11:00**            **NPS:** Jadelyn Nakamura

- Jade: **From Haleakala National Park:** Veg management team continuing to focus on Kipahulu upper valley control of invasives; as well as pilot study to rebuild dryland species in Nu'u area. Good progress on prioritizing forest bird protection; several areas w/kiwiku are of primary interest; wildlife staff have also initiated pilot study to determine efficacy of trapping predators (rats w/A-24s and another type of trap for mongoose and cats, also pigs. **From National Park of American Samoa:** Still on territorial lockdown, at least until end of Sept. Still COVID free. Trails, vine removal work has been a focus on Tutuila and Tau. Project with USGS on submarine water discharge on Ofu is on hold due to COVID. **From War in the Pacific and American Memorial Park:** New chief of resources for WAPA, AMME (Tim Clark) has been onboard since mid-July. A lot of coconut rhinoceros beetle work ongoing. **From Hawai'i Volcanoes National Park:** Permanent Ecologist position advertised, open to all DOI . New paper linking rapid ohia death to presence of ungulates. **Kalaupapa:** Kelly Moore will continue to support NRM until chief of NR position filled. Superintendent scheduled to start Sept. 26, date of arrival on island TB. Four NR staff on board, two more to be onboarded soon. Annual barge arrival in August. Natural Resources bringing in fence materials and dive compressor and completed a lot of biosecurity issue work for the barge arrival. Animal control, fence repair, and plant nursery work ongoing. **Pu'uuhonua o Hōnaunau NHP:** After 3 years of planning, removed 450 goats from park yesterday (experimental approach using HAVO ungulate crew, ALKA, PUHO, PUHE, and DLNR/DOFAW to do it), Used the 2018 MOU between NPS and DLNR. The process involved live removal...goats went to applicants who were permitted to take via state system. Still a few left to be take care of but got almost all of them. Also concurrently working on replacing boundary fence. Removal of goats will facilitate other 10-20 year park goals and focus to remove other invasive spp. to preserve cultural landscape, restore coastal strand. Looking for suggestions on how to obtain additional/future funding, esp. for fences

**11:00 – 11:05**            **CRB:** Keith Weiser

- Keith: Populations in mililani and kunia are spreading out from the peninsulas. West side was historically not very active but now is spread out throughout the coast. Many are single or low hits but dispersed. North shore (waimea and waialua 3 hits) hopefully just breeding material brought over and one off hits. For 5 or 6 years overall hits were mostly flat but has been increasing since. 80% of catches are still in the Pearl City, Waipio peninsula areas. Success at Iroquois due to pesticide treatment of palms. 75% reduction in population since treatments. Other treatments in Waikele Golf Course, Pearl City Peninsula, West Loch Golf Course. Contracted green waste removal- 30 bins of material removed for hot composting. Remote trap detections in mountainous regions in to the waianae mountain range and native populations of Loulu are threatened. Monitoring of damage to be scheduled.

**11:05 – 11:15**            **Maui Nui ISCs (MISC & MoMISC):** Adam Radford

- Adam: LFA 18 known infestation sites, 7 in monitoring stage and 5 considered eradicated. 6 active sites. The largest population is a 150 acre area in Haiku. 17 out of thousands of vials returned with LFA. This area was treated by helicopter and seems to be effective. Rose-ringed parakeets- collaborative efforts resulted in a capture through a public report. Other attempts to capture have been unsuccessful. Believe there are less than 10 birds total. Trying to find the origin of tree aster *Vernonanthura polyanthes* infestation. Widespread in Haiku area- determining if it is an actionable species. Continuing Pampass grass control season.

**11:15 – 11:20 OISC: Erin Bishop**

- Erin: Budgetary/Financial- Rec'd full 2022 BWS award, rec'd 50-55% of HISC ask so a little lower than last year & past years. Still awaiting word on our WPPG and NFWF proposals for TibHer & Miccal. Potential funding partnership with the Heeia NERR (National Estuarine Research Reserve).
- o Summary: Barring any unexpected budgetary setbacks, we will have enough funding for salary and fringe of all existing staff, and may have enough for 1 extra field position
- · Strategy: On track to meet all funding expected outcomes in 2021. With staff turnover and reduced funding, OISC will be operating with less capacity than the last 5-6 years. Not enough funding for an Early Detection Rapid Response tech in 2022, so ability to respond to new pest incursions will be hindered until we can fund that position. This means reduced capacity for OISC to assist with LFA and coqui as well. ND will participate as much as possible in coqui field ops in 2022 to try and fill that gap. Will be looking into Aina Corps (Federal Stimulus Funds) to assist with coqui ops. Not enough funding for all miconia areas. Will be more strategic with areas that we survey to make-up for funding & capacity reductions. Miconia has been detected in the upper Waiawa watershed, within intact native forest; will be focusing on the feeder population in Kaalaea valley. Should have enough funding and capacity for remaining strategic goals, but it will be a tight year. Will still be able to partner with Mamalu Poepoe for CRB and Africanized Honey Bees at the airport despite not having an EDRR technician, but will not be able to respond to swarms outside of scheduled visits
- · Outreach & Education. Article in LICH Magazine on devil weed. Sent LFA kits to Koolau Farmers in Kailua & Kaneohe. 3 community presentations. Devil weed crew volunteers spent 31 hours, surveyed 46 miles, and removed 117.
- · Miscellaneous: Trying to find wiggle room in the budget for HBT equipment, including projectiles and adequate storage. Much needed baseyard repairs still being held up by the University (definition of "construction" and budgetary/policy implications for that). Will continue working with PCSU to find a solution

**11:20 – 11:25 KISC: Tiffani Keanini**

- Tiffani: New detection of LFA, press release recently. 3rd largest infestation in ag area. Partnering with County and Farm Bureau to distribute test kits. Detected 4 mature miconia- first since early 2019. Should be able to control with HBT in the next few months. Hiring an Early Detection botanist.

**11:25 – 11:30 HBF: Janet Ashman**

- Janet: Public perception about pesticide use needs work. An organized effort in DC (Name: Beyond Pesticides group) to use HI as a poster child to help foster public perception against pesticides and

GMOs. They are powerful and are using info not based on science. Maui is looking to propose legislation to allow each county to pass their own rules relating to environmental issues. Need more advocacy against these lobbyists.

- <https://beyondpesticides.org/dailynewsblog/2021/08/maui-prohibits-toxic-pesticides-and-fertilizers-on-county-land-allows-only-organic-compatible-materials/>
- HISC Position on Herbicide Use: Resolution 19-1: Supporting the Use of Science in Herbicide Regulation <https://dlnr.hawaii.gov/hisc/news/resolution-19-1-supporting-the-use-of-science-in-herbicide-regulation/>
- "Maui County Council Passes Strongest Public Lands Organic Policy in the Nation" <https://mauiNOW.com/2021/08/27/maui-county-council-passes-strongest-public-lands-organic-policy-in-the-nation/#:~:text=The%20Maui%20County%20Council%20voted,be%20used%20on%20County%20property.&text=The%20Maui%20County%20ordinance%20takes,year%2C%20with%20a%20few%20exceptions.>

**11:30 – 11:35 HISC/CGAPS Strategies Update (deferred)**

**11:35 – 11:40 CGAPS: Christy Martin**

- Christy: Continue to provide support and strategic communications around Biocontrol facilities, talking points for Gov Ige's meeting with Sec. Vilsack. Secured a PPA grant, begun outreach to nurseries to make them aware of new pests and BMPs. Working on an airport biosecurity display. We will get a free location and electricity from HNL. We have done site visits and now looking into the design. We will be reaching out to HDOA and others about messaging. Trying to research emergency response tools in HI, which will hopefully culminate into a publication. LFA work through Sterling Kerr our intern. Need to find support for LFA work. October is Stop the Ant Month- asking the public to submit tests not only for LFA but other new species of ants.

**11:40 – 11:55 Additional Partner Updates**

**11:55 – 12:00 New Business and Announcements**

- Ambyr: 5th Annual Ohia Love Fest Nov 3-6. Virtual event with presentations and activities. Ohia advocacy project, engaging students in a civics project to name Ohia the first State Endemic Tree. Beginning to reach out to schools for participation. Looking to introduce a bill in the 2022 leg session.
- Rob Hauff: Special Local needs escort to control ginger expires next month (Oct. 10th). Need registration to get renewed. Rob is working on renewal.

**Note:** To join or leave the CGAPS listserv, click here (<https://bit.ly/2RExLJP>) or, go to the University of Hawai'i's listserv webpage and search for the CGAPS List.

