



## 2023 Pacific Rim Geospatial Conference

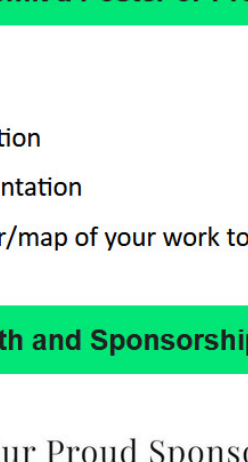
### "Legacy - Past, Present, & Future"

March 16th & 17th 2023

at the

Ala Moana Hotel

410 Atkinson Dr, Honolulu, HI 96814



[REGISTER NOW](#)

Stay at the [Ala Moana Hotel](#) at Conference reduced rates for our out of town guests

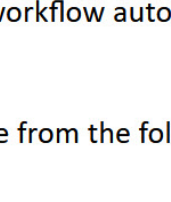
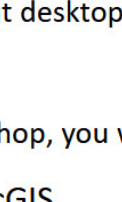
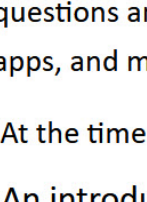
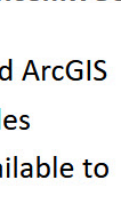
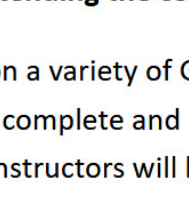
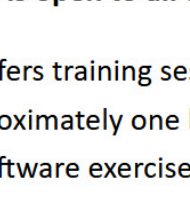
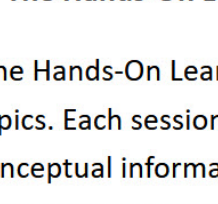


[Submit a Poster or Present](#)

- **Flash:** 15-minute update
- **Standard:** 20-minute presentation
- **Extended:** 45-50-minute presentation
- **Poster Exhibit:** Submit a poster/map of your work to be on display

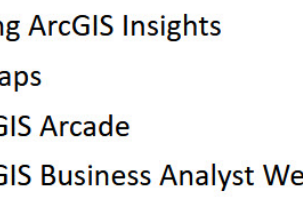
### Exhibitor Booth and Sponsorship Opportunities

Our Proud Sponsors



### Throw Axes with HIGICC!

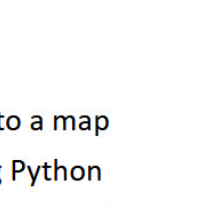
February 16th, 2023 @ 5:30 p.m.



506 Keawe St.  
Honolulu, HI 96813

Join us in a friendly competition!

Pupus generously sponsored by:



[Register here!](#)

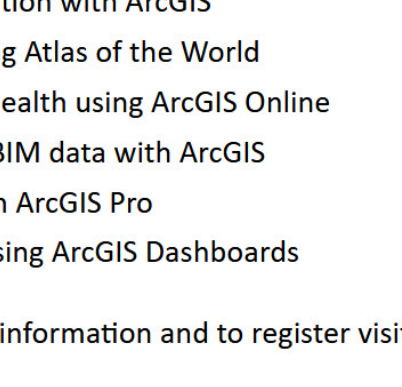
### Esri Hands-On Learning Lab

March 15, 2023

Morning Session 8:30 AM - 12:30 PM

or

Afternoon Session 1:30 PM - 5:30 PM



Esri Honolulu Training Room

1357 Kapiolani Blvd. Suite 1100, Honolulu, HI 96814

The Hands-On Learning Lab is open to all users attending the conference...free!

The Hands-On Learning Lab offers training sessions on a variety of GIS and ArcGIS topics. Each session takes approximately one hour to complete and includes conceptual information and software exercises. Esri instructors will be available to answer your questions.

Select topics from introductory to advanced in a self-paced environment. Ask questions and learn about desktop GIS functions, workflow automation, creating web apps, and more.

At the time of the workshop, you will get to choose from the following topics:

An introduction to ArcGIS

- Exploring ArcGIS
- Getting started with ArcGIS Online
- Getting started with ArcGIS Pro
- Getting started with GIS

ArcGIS apps and extensions

- Discovering patterns using ArcGIS Insights
- Exploring ArcGIS Field Maps
- Getting started with ArcGIS Arcade
- Getting started with ArcGIS Business Analyst Web App
- Getting started with ArcGIS Notebooks
- Getting started with ArcGIS Survey123
- Getting started with ModelBuilder
- Managing parcels and land records using ArcGIS Parcel Fabric

Focused topics

- Adding location-based data to a map
- Automating workflows using Python
- Creating interactive maps in spreadsheets and presentations
- Creating web apps using ArcGIS Experience Builder
- Exploring 3D analysis with ArcGIS Pro
- Exploring 3D visualization with ArcGIS
- Exploring ArcGIS Living Atlas of the World
- Improving newborn health using ArcGIS Online
- Integrating CAD and BIM data with ArcGIS
- Mapping clusters with ArcGIS Pro
- Monitoring activity using ArcGIS Dashboards

How to sign up – For more information and to register visit this link:

<https://arcgis.com/learn>

If you have any questions regarding this event, email [gchiques@esri.com](mailto:gchiques@esri.com)

## Ka'ena Point National Heritage Area Designation

Michael Wahl

A Land Story for Ka'ena, Waialua, O'ahu

[Ka'ena Point National Heritage Area Story Map](#)

In 2019, the State Historic Preservation Division (SHPD) was tasked by the administrators of the Department of Land & Natural Resources (DLNR) to compile archival data on Ka'ena Point on the Island of O'ahu in support of designating the area as the first National Heritage Area (NHA) in Hawai'i. This designation would provide federal funding and support to protect the natural and cultural resources of Ka'ena Point and allow land managers in the area to collaborate on preservation projects, educational opportunities, and community involvement. At the time of writing this, the project has been approved for a feasibility study by the legislature and has been supported by Senator Hirono, Representative Case, and others to seek approval in designating Ka'ena Point as an NHA from President Biden's office.

Agencies involved are Ka'ena Point State Park, the Natural Area Reserve managed by the Department of Fish and Wildlife (DOFAW), the YMCA, and the Department of Land and Natural Resources. The State Historic Preservation Division's GIS Specialist, Michael Wahl (President of HIGICC), conducted archival research and created maps of the cultural resources, natural features, and land management boundaries at Ka'ena Point to create a [report](#) that would help legislators and decision-makers see how significant this area is to Native Hawaiians and how critical the preservation of these resources are.

One interesting theme the Ka'ena Point NHA project highlights is the concept of "intangible cultural heritage". How do we, as GIS professionals, map an intangible resource? How do we map something that exists in the minds of people and is related to natural and cultural features in the landscape, but does not have any discrete boundaries? For example, Ka'ena is only one part of a large cultural landscape that spreads out from Moanalua to Honolulu to Kukaniloko in Wahiawa and out across the channel to the eastern coast of the island of Kaua'i. These places are all linked through the belief that the souls of the dead will travel from one place to another, with help from their aumakua, to reach a leaping off point into the next realm of existence (or non-existence, depending on what path is taken). To provide cultural context for a western perspective, this would be like trying to provide GPS coordinates to the gates of heaven. How do we make a map that acknowledges these places and what they signify when there is no discrete boundary? There is no right answer to this question and the only thing we should do is ensure our maps do not lead to the disrespect or misunderstanding of anyone's ideology or beliefs.

The overall message is that Ka'ena Point is one of the most sacred places on the island of O'ahu and its protection is a high priority for Native Hawaiians and anyone who respects and loves the natural and cultural resources of Hawai'i.

If you have any questions or comments about this project, please feel free to contact Michael Wahl at [michael.a.wahl@hawaii.gov](mailto:michael.a.wahl@hawaii.gov)

Honolulu Civil Beat

[Congress Sends Ka'ena Point Heritage Bill To Biden](#)

[Protecting The Past By Managing The Future of Ka'ena Point](#)

[Hawai'i Reps Want Ka'ena Point To Be A National Heritage Area](#)

## MAGIS 1920's Aerial Imagery - GIS Day Webinar

Sponsored by:

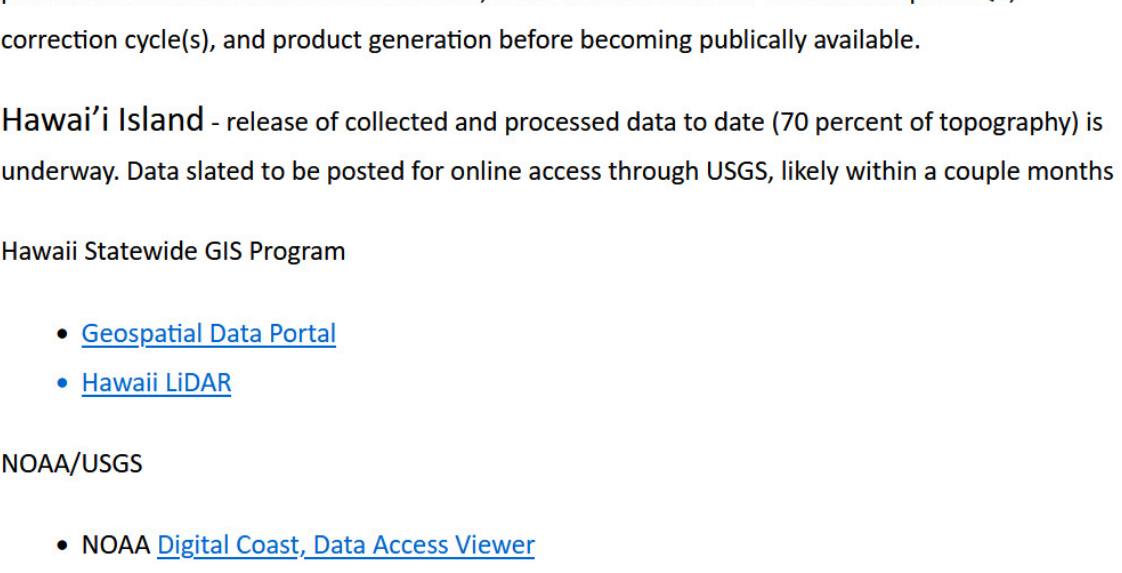
[HIGICC](#)

[MAGIS](#)

[USACE-Honolulu](#)

[R.M. Towill Corporation](#)

November 16, 2022



Beginning in 2004, GIS professionals in Hawaii began scanning and georeferencing a set of aerial photos from 1927 and 1928.

The 1927/1928 aerial photos of O'ahu and Kaua'i is rare and the earliest known collection of aerial imagery of Hawai'i. The flights were taken by the Photo Section of the U.S. Army Air Corps at Luke Field (Ford Island, Pearl Harbor), Territory of Hawai'i. Information about this collection is limited and many images are missing. In the 1970s, Professor Everett Wingert of the University of Hawai'i at Mānoa Geography Department estimated that there were 7,000 images with three separate index maps.

Today, only 2,400 photos and one index map have been accounted for. Over the years, there have been efforts to gather, organize, and georeference this collection. In 2006, community GIS professionals in Hawai'i came together for a day and started georeferencing the aerials with digital images provided by Ev Wingert (Geography). For a fuller description of the 2006 project, consult the [project poster](#). In 2008, thousands of Hawai'i and Pacific aerial prints, including some from the 1920s, were donated to the Map Collection at the University of Hawai'i at Mānoa by Henry Wolter of USGS. Many of these aerials have been hosted by MAGIS since the early 2010s. In 2021, Benton Ching, one of the 2006 project leads, reached out to MAGIS to provide access to the 1920s aerials georeferenced so far.

Mahany Lindquist and Nargis Sultana, current and former GIS coordinators at UH MAGIS respectively, are organizing the collection, checking the metadata, cleaning up inventories, and creating interactive flight line index maps. The Kaua'i aerial photos were georeferenced by MAGIS between 2021 and 2022. The work is on-going. All of the 1920s aerial images that we have so far, with about half that are georeferenced, are now accessible via an interactive index map. The framework is ready for any new georeferenced aerials to be added.

If you are interested in contributing to the project and georeferencing some of the aerials; or if you know anyone who has portions of this historical set, please contact MAGIS at [magis@hawaii.edu](mailto:magis@hawaii.edu)

Mahalo nui to all who made this project possible!

## New Chainsaw Drone Technology Deployed to Fight Rapid 'Ōhi'a Death

University of Hawai'i News

November 20, 2022

A new aerial chainsaw device that could assist in the battle to save Hawai'i's 'ōhi'a trees from a deadly fungal pathogen is being put to the test by a [University of Hawai'i at Hilo](#) geographer. Professor Ryan Perroy and his research team have developed a drone attachment capable of sampling tree branch samples for diagnostic laboratory testing and other purposes.

The device, named Kūkūau, consists of a small rotating chainsaw with a robotic gripper claw mounted beneath a drone, and can cut and retrieve branches up to seven centimeters in diameter. The samples are collected for diagnostic testing of forest fungal pathogens, including those responsible for Rapid 'Ōhi'a Death (ROD).

"There have been times when we detected an 'ōhi'a tree suspected of infection with the pathogens responsible for Rapid 'Ōhi'a Death, but because of the location, it was too dangerous or problematic to send field crews out to sample it for confirmation," said Perroy. "Kūkūau has the potential to help in those types of situations."

[Full Article](#)

[Watch \(1:15\)](#)



## LiDAR Datasets for Hawai'i

[Hawai'i US Inventory Elevation Interagency Status Map](#)

Maui County and O'ahu - acquisition continues for Maui County. Portions of Lanai collected in late July through August. Aircraft maintenance in September and flights over Lanai resumed in early October. Maui is the priority region for this project (as there is data from 2013 for much of Oahu) though aircraft will collect wherever conditions best allow. Once the contractor processes the lidar and delivers it to USGS, it can take 9 months or more to complete QA, correction cycle(s), and product generation before becoming publicly available.

Kaua'i - bathymetry collected and 70+ percent of topography. Considering next steps for data processing/delivery, although eventual full island collection is the goal. Once the contractor processes the lidar and delivers it to USGS, it can take 9 months or more to complete QA, correction cycle(s), and product generation before becoming publically available.

Hawai'i Island - release of collected and processed data to date (70 percent of topography) is underway. Data slated to be posted for online access through USGS, likely within a couple months

Hawaii Statewide GIS Program

- [Geospatial Data Portal](#)
- [Hawaii LiDAR](#)

NOAA/USGS

- NOAA [Digital Coast, Data Access Viewer](#)
- USGS [3D Elevation Program](#)
- USGS [Lidar Explorer Map](#)
- USGS [The National Map - Data Delivery](#)
- USGS [The National Map \(TNM\) Datasets](#)

Other resources

- [Open Topography](#)

## Did You Know?

Communities Can Find Climate Data, Funding Sources in New White House Portal

Esri State and Local Government eBrief

[newsletter@esri.com](#)

Esri collaborated with the Biden administration on the new [Climate Mapping for Resilience and Adaptation \(CMRA\) Portal](#), built to help cities, counties, states, and tribes make better decisions about where and how to take action. Central to the portal, colloquially being called "camera" by its creators, is the CMRA Assessment Tool -- with it, people can explore current and projected climate conditions where they live and work.

The HIGICC [Map Gallery](#) features our community's work.

To submit your map or app, please contact us at [higicc@higicc.org](mailto:higicc@higicc.org)

### Jobs & Internships

Don't forget to check our job listings frequently for the latest opportunities!

There are two (2) immediate permanent full-time vacancies with the Department of Information Technology - Geographic Information Systems Division in Hilo

[Join HIGICC!](#)

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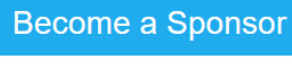
[Make a Donation](#)

Looking for new ways to connect with others in our local GIS community?

HIGICC invites you to join us in cultivating an online [community of practice](#) using the popular group-chatting platform: [Discord](#). For those of you who aren't familiar, Discord is a free communication app similar to Microsoft Teams and Slack that runs from your computer, mobile device, or web browser. You can exchange messages, contribute to discussion boards, and meet with others using audio and video similar to Zoom. Use this [invite link](#) to:

- Talk story;
- Plan social events;
- Share your expertise;
- Learn from others;
- Collaborate on projects

Those who join early will have an opportunity to help shape HIGICC's implementation of Discord as well as policies related to its use. If you have questions, please contact Scott Allen @ [scott.f.allen@hawaii.gov](mailto:scott.f.allen@hawaii.gov).



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