

Hawaii Geographic Information Coordinating Council **ANNUAL REPORT** **2019-2020**



ABOUT

The Hawaii Geographic Information Coordinating Council is a non-profit organization run by volunteers nominated from Hawaii's geospatial community. We are always looking for people to help grow our organization and to support GIS in our community.

HIGICC



2019-2020 Board of Directors

(year term up)

Christine Chaplin, President (2021)
Gretchen Chiques, Vice President (2020)
Mike Wahl, Secretary (2021)
Joan Delos Santos (2020)
Rhonda Maronn (2020)
Ted Kwok (2020)
Sam Aruch (2020)
Craig Clouet (2021)
Karyn Nolan (2020)
Ross Winans (2021)
Colin Lindeman (2021)

2020-2021 Board of Directors

(year term up)

Christine Chaplin, President (2021)
Gretchen Chiques, Vice President (2022)
Michael Wahl, Secretary (2021)
Clare Mamura, Treasurer (2022)
Craig Clouet (2021)
Joan Delos Santos (2022)
Sam Aruch (2022)
Ross Winans (2021)
Colin Lindeman (2021)
Jared Taylor (2022)
Mahany Lindquist (2022)



PRESIDENT'S

MESSAGE

Christine Chaplin, GISP

Aloha,

The HIGICC board is a dedicated group of 11 accomplished professionals representing different levels of government and private companies. This year, I am honored to be chosen for a third term as President of the HIGICC Board of Directors. The great support and active participation of our directors and members makes my role as president fulfilling and always incredibly rewarding. We've made some changes to our internal structure this year, based upon insightful feedback from you, that we believe will help us do a better job of fulfilling our mission.

HIGICC relies on input we hear from you to help our board formulate a clear vision of what we should strive to achieve, as the needs of our community change over time. Last year, we requested feedback from you on how we can be of more value. This feedback helps our programming, which is constantly evolving and being refined to serve professionals and students in the geospatial field. Your thoughtful responses revealed that our community was looking for different ways to connect and build relationships, and new approaches to grow as professionals. In response, we planned a variety of workshops, pau hanas, hands-on training, and events like the tour of the University of Hawaii's MAGIS lab. The highlight of the year was our 20th Anniversary Celebration, which brought together many of our members who have served throughout the years. Because of a tricky venue issue, at the last minute, we were able to hold GIS Day at the University of Hawaii thanks to Women In Technology (STEMworks), and our members who quickly volunteered to help. Moving forward, the board has formed five subcommittees to focus on core tasks that we work on every year: elections, scholarships, membership & sponsors, events, and the quarterly newsletter. This will keep our directors and members engaged and successful in meeting our mission and goals.

We have been fortunate to receive generous sponsorships this past year from G70 design, Dudek, Frontier Precision, and Statewide Safety Systems. These companies have seen the consistent value that we bring to our community and have been generous in sharing their resources and expertise. This kind of support allows us to hold trainings, offer scholarships, and plan various events which keep us well connected. It warms my heart to see our members enjoying these activities, making new friends and sharing our expertise.

Thank you for your part in advancing our vision for the geospatial community in Hawaii, and I can't wait to see what we will achieve together.

Mahalo,

A handwritten signature in black ink that reads "Christine Chaplin".

EVENTS

GIS DAY



35 HIGICC VOLUNTEERS

HIGICC, in partnership with Women in Technology STEMworks, hosted the 2019 GIS Day at the University of Hawaii. With the help of our volunteers and sponsors, we were able to offer a half day of activities for over 100 students from the following high schools: Castle, Farrington, Hawaii Tech Academy, School of the Deaf & Blind, Moanalua, and Waipahu.

Students were engaged in various activities and demos:

- GNSS and ArcGIS Collector to track the invasive species brown tree snake.
- Geologic features using the National Geographic Giant Map of the Pacific.
- Remote sensing with hands-on experience using thermal sensors
- Virtual reality talk and demonstration
- Unmanned Aerial Vehicle & demonstration
- GIS professional talks & displays showing how geospatial technology is used in real-world careers.

Mahalo to Maui Economic Development Board Women in Technology STEMworks, and our HIGICC Sponsors & volunteers for always making this event one that the students will never forget.



101 HIGH SCHOOL STUDENTS



6 HANDS ON ACTIVITIES



asprs THE IMAGING & GEOSPATIAL INFORMATION SOCIETY

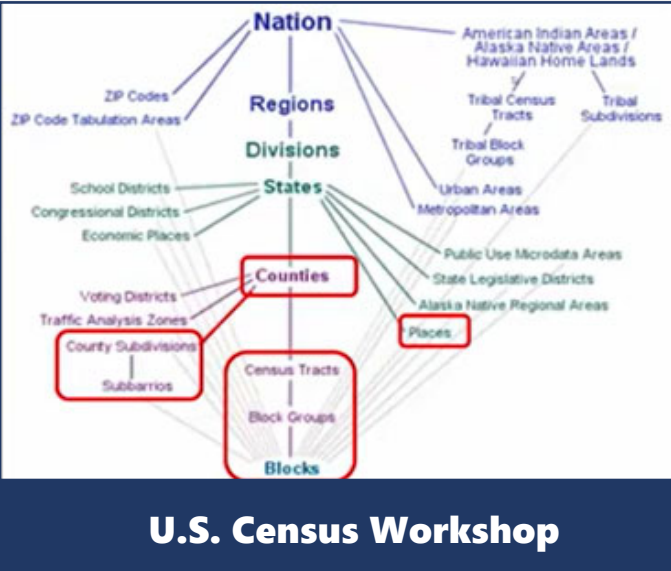


EVENTS



UH MAGIS Tour

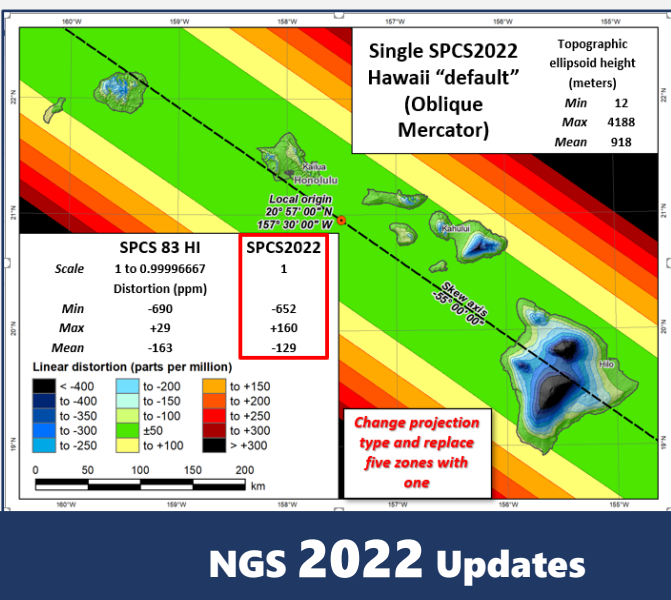
Another exciting event this year was at the University of Hawaii in Manoa, Maps, Aerial photographs, and GIS (MAGIS) Library Visit and Tour. HIGICC Director Ted Kwok and his colleague Mahany Lindquist arranged an open house at the map collection of the library for HIGICC members, UHM students and faculty. We learned about Early and Historical Maps from the region, had the chance to look at historic aerial photographs, and Special Collections maps. We thank Ted Kwok and his team for this great event!



U.S. Census Workshop

In September, HIGICC partnered with the United States Census Bureau to provide a workshop to learn more about the US Census programs and products. Participants learned how to use The Map Lab mapping feature at www.census.gov to access key demographic, socioeconomic, and housing indicators for statistical geographies such as tracts, block groups, and blocks. Users will be able to utilize these geographies to define neighborhoods and service areas and create community profiles and basic maps. Mahalo to Carlie Liddell and Eric Coyle from the U.S. Census Bureau for arranging this workshop. Additional local resources can be found here:

- <http://census.hawaii.gov/>
- <https://files.hawaii.gov/dbedt/op/gis/maps/agol-maps/Tracts10/>



NGS 2022 Updates

Edward Carlson from the National Geodetic Agency gave a presentation on the new changes coming down from the National Institute of Standards and Technology's (NIST) Office of Weights and Measures to change retire the U.S. Survey Foot after 2022, and the upcoming changes from the National Spatial Reference System (NSRS). Over 70 professionals from HIGICC and the Hawaii Land Surveyor Association attended this event in person and via skype. The main driver to replace the NAD 83 and vertical datums stems from Global Navigation Satellite Systems (GNSS) which is easy to access, better accuracy, and consistency than the previous GPS system. In 2022, the entire NSRS will be modernized to contain four new reference frames. Take-away: if using NSRS, every product (survey, map, lidar, image, DEM) will have new coordinates.

EVENTS

On December 11th, 2019, Dudek and NOAA teamed up for a live UAS demonstration at the RC field in Kailua. Over 20 interested folks attended, and the conditions were perfect to fly. Several different UAS platforms with different sensors were flown. Two experienced pilots gave detailed information on safe and effective UAS operations. Topics covered include FAA regulations, flight operations, and available sensors. The workshop attendees had many great questions and added in a lot of content with their own experiences. Lunch was provided and attendees enjoyed the time to network.



Dudek UAS Workshop

In January, Esri hosted a user seminar event and demonstrated the capabilities available in the next release of ArcGIS Pro 2.5 software. The next generation of Map Viewer Beta and ArcGIS Storymap builder in ArcGIS Online updates were unveiled. The afternoon workshop focused on ArcGIS Field applications Survey123, QuickCapture and Operations Dashboard. Afterwards, we met at Maui Brewing for refreshments. This event provided a great opportunity to network with the community and learn new and exciting products, capabilities, and solutions available to Esri users.

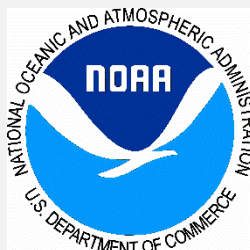


Esri Seminar & Workshop

Members from HLSA and HIGICC came together in December for a friendly axe throwing competition at Blade & Timber. We had a great time learning the different ways one can fling an axe across a room and hit a target. It was a fun get together where everyone had a chance to get to know each other and explore a new activity.



HIGICC HLSA Axe Throwing



20TH ANNIVERSARY CELEBRATION

To be a part of the Hawaii Geographic Information Coordinating Council is to be a part of a legacy of professionals who care deeply about the geospatial field to an extent that they created this 501 c 3 non-profit and banded together as the first board of directors. They saw a need to organize this new digital geospatial profession. Their goal is still very relevant: to provide coordination of geospatial activities among a wide range of users in order to promote data sharing, prevent duplication of effort, and maintain data standards. They also wanted to make the path easier for their peers, and their vision is still alive today within each of the directors and members.

We all share that passion to create opportunities for professional growth through mentoring, training opportunities and networking, and to provide resources to folks looking for our expertise. We believe in partnering with other fantastic organizations like Women In Technology, Hawaii Land Surveyors, and other professional organizations throughout our state to provide resources to professionals, the community and to students who may one day choose the geospatial as a career path.

The result is an association of like-minded people coming together around something they love to do and building HIGICC into a well-known organization that provides wonderful resources for students and professionals alike. You all can be proud of the past 20 years of dedication that we celebrated at this gathering. We are making a difference. We have come a long way in the past 20 years, and we at HIGICC salute everyone for your participation and commitment to our vision of a well-connected geospatial community in Hawaii.

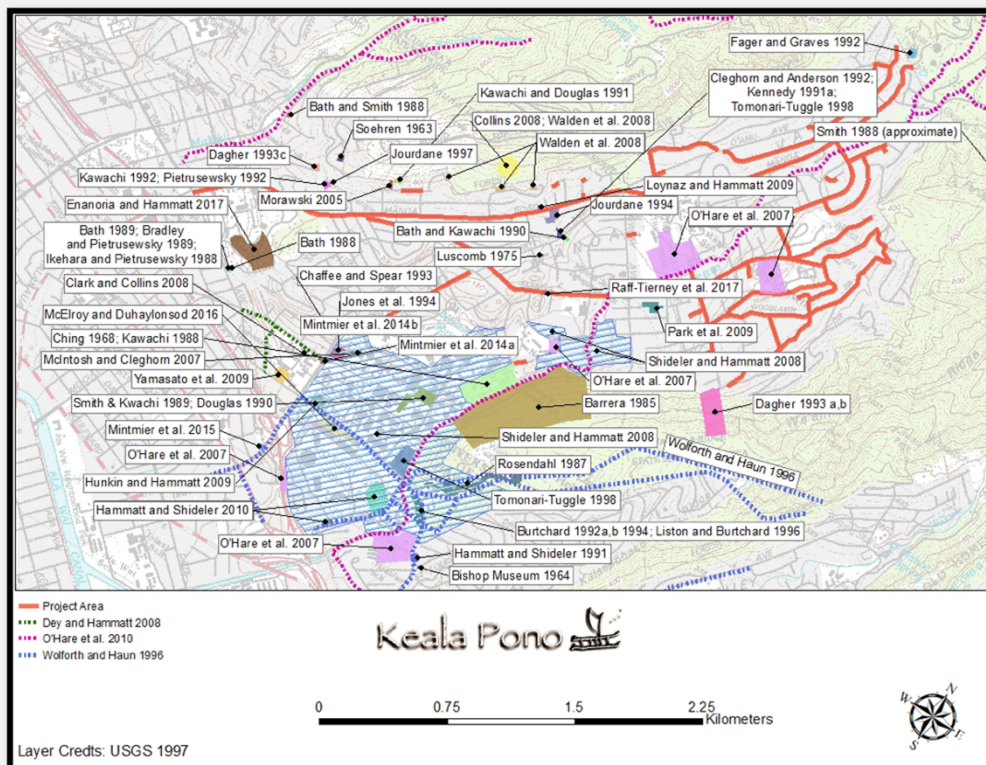


SCHOLARSHIP

Gina McGuire

The HIGICC Board is proud to announce Gina McGuire as this year's Mark Lierman Memorial Award Scholarship winner! The competition was fierce this year as Gina went up against 11 other highly qualified candidates. Gina is born and raised on the Big Island and currently works as an Ethnographer and Geospatial Analyst for Keala Pono Archaeological Company in Kapolei. She has a BA in International Relations from Stanford University, an MS in Tropical Conservation Biology &

Environmental Science from UH Hilo and is currently working on her PhD in Geography & Environment at UH Mānoa. She has worked on many committees and councils in support of indigenous rights and loves having a job that allows her to use her GIS skills to protect the cultural and natural history of Hawai'i. In her own words, she plans "to use the practice of Lā'au Lapa'au, Hawaiian medicine, as a culturally place-based foundation upon which to apply Indigenous GIS in Hawai'i." With her winnings she plans to purchase research equipment in support of her PhD, which includes GPS equipment and a continued GIS software



subscription. The HIGICC Scholarship Committee is honored to select Gina as this year's winner for her contributions to the study and practice of GIS in Hawai'i and its application in the promotion and protection of Hawaii's rich cultural history, traditional indigenous practices, and ecological well-being. Congratulations Gina McGuire!

PRESIDENT'S AWARD

Katie Taladay

I would like to honor Katie Taladay as the recipient of this year's HIGICC President's Award. Ever since 2017 when we awarded Katie with the Mark Lierman Scholarship, she has been very active in our community. She never hesitates to accept a request to present at an expo or teach a class about how to use drones safely.



This past year Katie and STEMworks have been invaluable partners to HIGICC. This year she really went out of her way to help and as a few examples... We were struggling to find a venue for GIS Day and with Katie's connections we were able to use classrooms at the University of Hawaii. We reached out to Katie with questions on how STEMworks held their virtual conference with over 300 students and not only did she have great advice, she took time out of her extremely busy schedule to meet with us and used the STEMwork's ZOOM platform to run the HIGICC Virtual Expo. I have been so grateful to have her in our community.

Katie Taladay is a GIS Education (and STEM Education) Enthusiast. She was the recipient of the Mark Lierman Memorial Scholarship in 2017. Her professional career began in 2018 as GIS analyst on contract for NOAA's Office for Coastal Management where her primary role was to build geospatial capacity in the Pacific Region, and to develop NOAA's Digital Coast's Introduction to Lidar training.



In February 2020, she started working for MEDB, STEMworks. In her role as Program Manager she has been actively working to promote skills and careers in GIS. STEMworks promotes and coaches students to compete in the statewide Esri StoryMap Competition, connects with partners to create GIS-based summer internship projects, leads after school training for ArcGIS Online, and manages the Esri Educational licenses for the state. She also teaches Introduction to GIS, GIS for Social Scientists, and Digital Earth as a lecturer at the University of Hawaii at Manoa.

In her little spare time, she loves to run around outside with her three puppies and is a big fan of board games and game nights with friends (when there isn't a pandemic). She is fascinated by rocks and algae (yes, algae), and she's looking forward to splurging on a jet ski this year to spend some more time in the water.

Mahalo Katie for all your hard work!

BUDGET

Conference profit from previous years are used to offset HIGICC's annual spending deficits of \$3,000 to \$6,000 per non-conference year and fund start-up costs for future conferences. This year, income from membership fees generated \$3,980. An additional \$2,107.13 in donations were received, which included \$2,000 from our sponsors. G70 provided \$1000. Frontier Precision, Dudek and Safety Systems each provided \$500. The HIGICC 20th Anniversary Celebration event generated \$1,760 at an expense of \$2,468.38, yielding a loss of \$708.38. Total income for this year was \$2,277.17. Board expenses include website, professional services, travel for board members, licenses, insurance, office supplies, dues, and fees and services charges for a total of \$5,213.53. This year, being a non-conference year, HIGICC performed below the anticipated annual spending deficit, with a net loss of \$2,936.36.

HIGICC Profit & Loss July 2019 - June 2020

Income	Cost	Total
4000 - Membership dues income	\$3,980.00	\$3,980.00
4050 - Donations income	\$2,107.13	\$2,107.13
4100 - GIS Day event		-\$104.38
4300 - Scholarships		-\$2,000.00
4400 - Conference		-\$413.97
4500 - Annual meeting		
4510 - Annual meeting income	\$260.00	
4515 - Annual meeting expense	-\$802.70	
Total 4500 - Annual meeting		-\$342.70
4600 - Meetings		
4615 - Meetings expenses	-\$240.55	
Total 4600 - Meetings		-\$240.55
4800 - Special Events		
4805 - 20th Anniversary Income	\$1,760.00	
4810 - 20th Anniversary Expense	-\$2,468.38	
Total 4800 - Special Events		-\$708.38
Total Income		\$2,277.17

Expense	Cost	Total
5100 - Contact management site	\$1,745.04	
5150 - Insurance	\$718.00	
5250 - Fees & service charges	\$264.75	
5300 - Licenses & permits	\$3.50	
5400 - Dues	\$830.00	
5450 - Travel expense	\$454.58	
5500 - Office supplies & expense	\$216.00	
5550 - Legal & accounting fees	\$835.06	
6000 - Miscellaneous	\$146.60	
Total Expense		\$5,213.53

Net Income

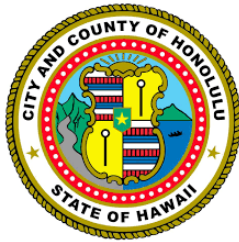
-\$2,936.36

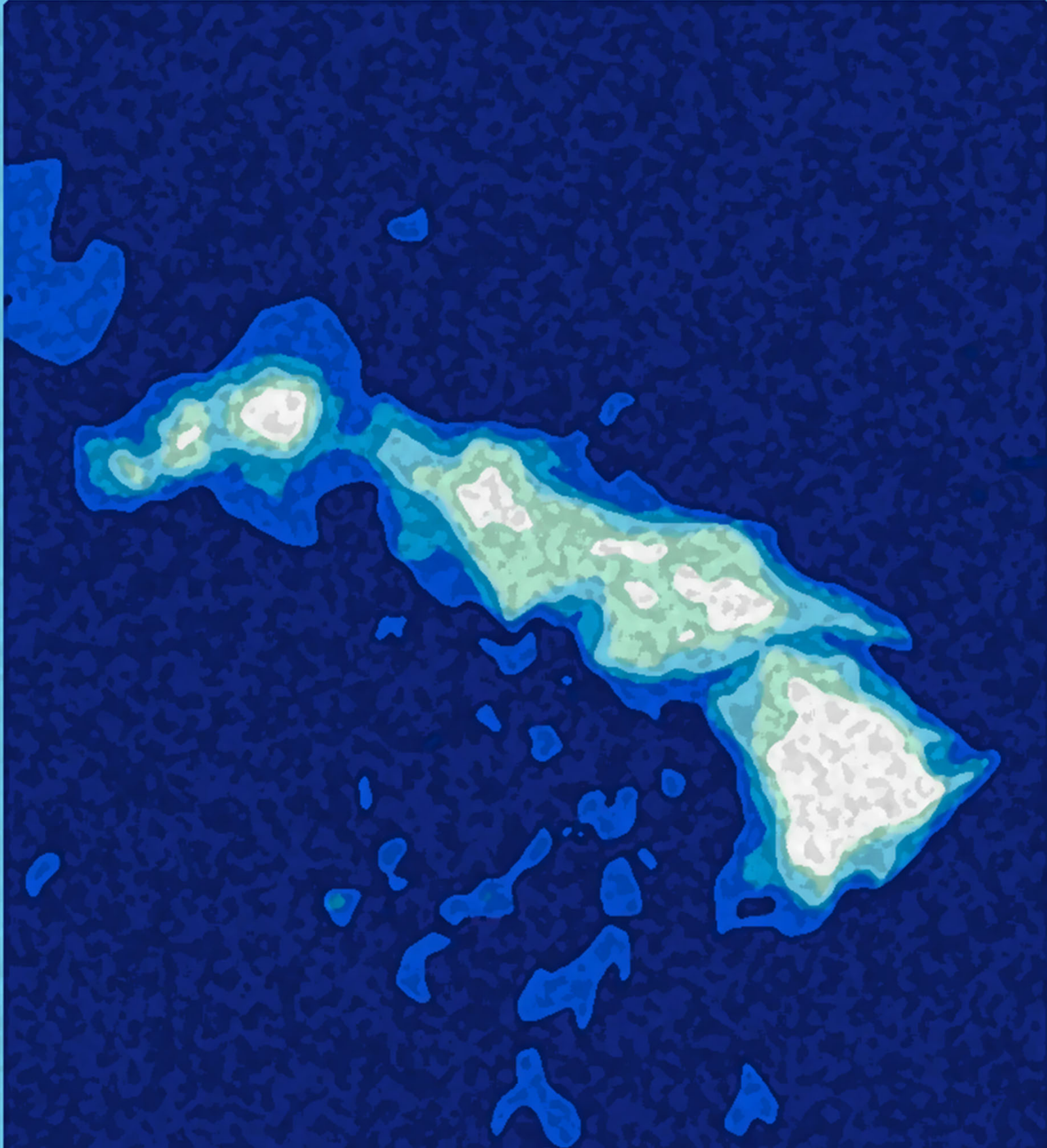
MAHALO

TO OUR SPONSORS



TO OUR SUPPORTERS





Hawaii Geographic Information
Coordinating Council (HIGICC)
P.O. Box 1174
Honolulu, Hawaii 96807-1174
E-mail: higicc@higicc.org