

HIGICC NEWSLETTER

December 2020

HIGICC Annual Meeting – October 7, 2020



The HIGICC Annual Meeting was held on October 7th of this year using a virtual forum to accommodate social distancing measures due to the ongoing pandemic. The event was attended by all board members, members of the GIS community in Hawai'i, and special guests who have made contributions to the HIGICC in the past and present. The meeting was kicked off by President Christine Chaplin welcoming all, followed by introductions by the board as well as a welcome to the newest board members elected to their positions this year.



This year the HIGICC coordinated several workshops, pau hana, and trainings for members to help those looking to connect and build relationships with GIS professionals in Hawai'i. Events included GIS Day at UH Mānoa, the UH MAGIS tour, the Dudek/NOAA NGS presentation, a virtual brown bag session featuring a map lab, the annual social with an axe throwing competition, an Esri User Seminar with a pau hana at Maui Brewing Company, and last but not least, the 20th Anniversary Celebration. Thanks to sponsors like G70, Frontier Precision, Dudek, and Statewide Safety Systems, all of these events were well attended and a good time was had by all.



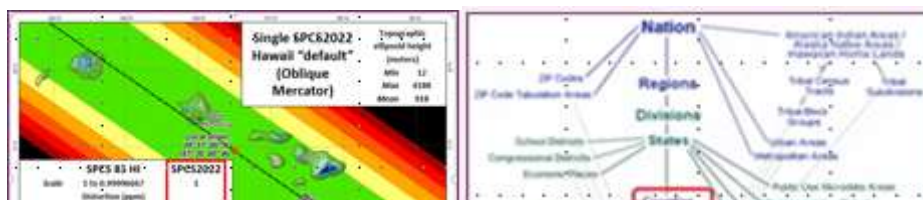
20th ANNIVERSARY CELEBRATION



President Christine also introduced a new development of the HIGICC: planning committees run by the board and open to volunteers. There is now a committee for the newsletter, the annual scholarship, elections, events, and membership & sponsors. Each committee is led by a board member and volunteers in the GIS community. The newsletter committee is always interested in ideas for new articles so please reach out with any ideas you may have. If you would like to participate in a committee please email higicc@higicc.org.



We had a great year, despite setbacks from the pandemic, and we plan to have an even better year ahead. Upcoming events include GIS Day on November 17th which for the first time will be open to all students outside of O'ahu since it will be virtual. There will also be a Surveyor's Conference, a networking pau hana with workshops, a STEM Conference, an Esri User Conference pau hana, plus many more so please be on the lookout for more information about these and other events to come.



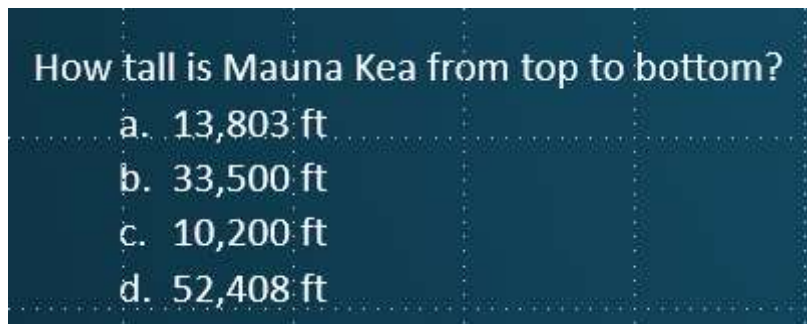


Treasurer Clare Mamura presented on the budget for this year and the upcoming fiscal year. This year the net income was better than expected due to many events being held virtually and overall we expect expenses to be lower in the coming year for the same reason. The budget was approved by all attending. A big mahalo to Clare for her hard work on balancing the budget this year!

Overall, the Annual Meeting went very well and it was good to reconnect with GIS professionals and learn about what has happened this year and what to look forward to in the next.



HIGICC Trivia Question #1:



(Answer at end of newsletter)

2020 HIGICC President's Award Winner Announced



The 2020 HIGICC President's Award was presented to Katie Taladay, STEMWorks Program Manager at Maui Economic Development Board. Katie is a passionate GIS Education (and STEM Education) Enthusiast and was the recipient of the Mark Lierman Memorial Scholarship in 2017. Katie has been very active in our community and never hesitates to accept a request to present at an expo or teach a class.

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 at Manoa. We reached out to Katie with questions on how STEMworks held their

Manoa. 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.

Katie's 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 in 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 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.

Katie's name will be engraved on the HIGICC President's award plaque along with those of previous years' esteemed award recipients. She has been an outstanding addition to our community.

Mahalo Katie for all your hard work!

HIGICC Trivia Question #2:



(Answer at end of newsletter)

Statewide GIS Program Conducts Kick-Off Meeting for Solutions for GIS Parcel Alignment Issues Project



In September of 2020, the Hawaii Statewide GIS Program, with the support of consultant Dudek, convened a group of 35 stakeholders from 17 state, county, federal, private and non-profit agencies and organizations to begin a series of meetings and workshops to document and address a long-standing issue in the GIS community – that of GIS layers not overlaying with TMK parcel boundaries, and various other derivative layers not overlaying with each other. Participants included representatives from government agencies, surveyors' groups, utilities and others.

Naturally, all 4 counties want to have the best, most high-quality parcel datasets possible. As part of that effort, they've been using various tools to make improvements to the positional accuracy of the parcel boundaries.



The statewide GIS database includes several layers derived from these parcel boundary layers, such as reserves, state land use districts, hunting areas, special management areas, and many others. Federal agencies, too, have used county parcel layers as reference when creating their layers, e.g., USFWS critical habitat boundaries.

When counties apply various displacements/shifts to their data, the data no longer overlays with state data derived from parcels. Additionally, since various positional parcel boundary improvement solutions can result in continual adjustment/refinement of the boundaries with each parcel edit, even if state agencies could adjust their layer boundaries to match the county parcels, they would be faced with the need to apply continual adjustments to their data to overlay with county layers with each update of the county data.



The shifting parcel boundaries can affect analysis using GIS data that is not necessarily derived from parcels as well. For example, analysis might be conducted to determine whether a stream or a wetland or a critical habitat is located on or near a parcel. A shift in the relative position of a parcel boundary can affect the outcome of that analysis. This project will fully examine how to address these issues and provide a forum for affected stakeholders to express their concerns and ideas on the topic.

This project is designed to bring affected stakeholders together to discuss these alignment issues – to document the county parcel creation and maintenance workflows, understand challenges faced by users, learn about work-arounds that may have been developed, and begin to develop some workable solutions to the issues.

HIGICC Trivia Question #3:

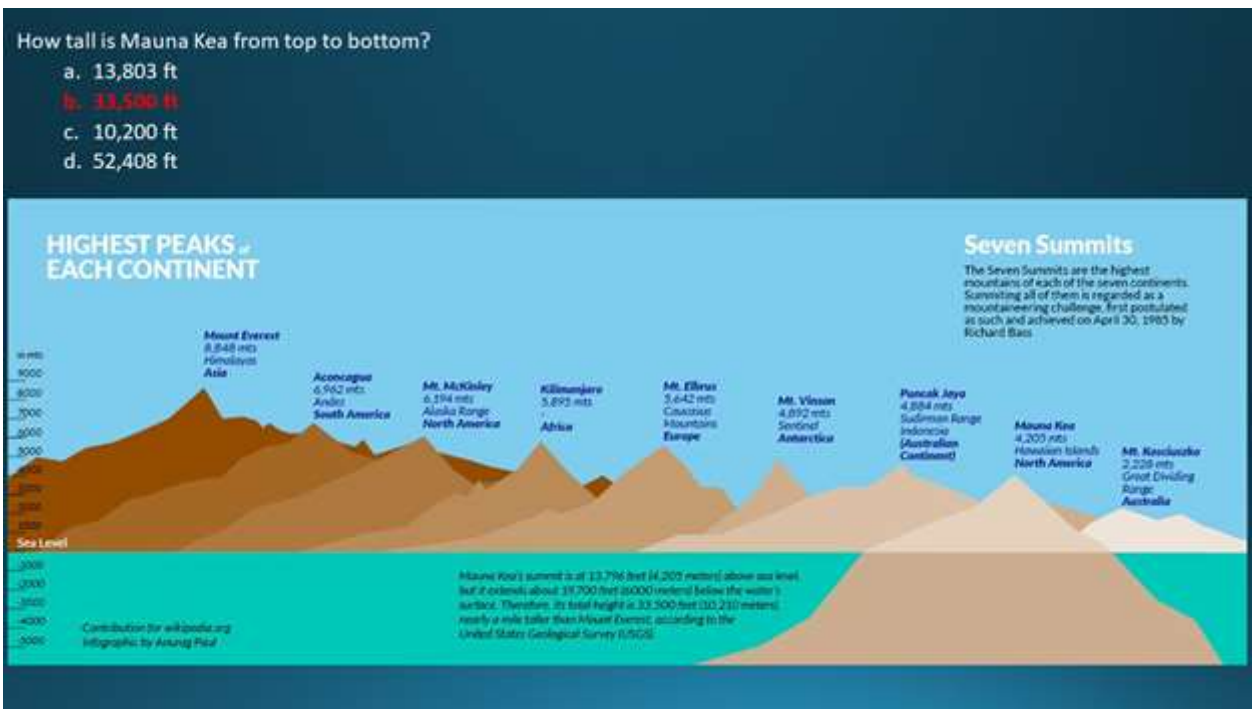
This ancient scholar was known for calculating the Earth's circumference with high precision. He was the head of the Library of Alexandria
a. Eratosthenes b. Ptolemaic c. Egypt (276 BC–194 BC) d. Greek scientist

- a. Eratosthenes, Ptolemaic Egypt (c. 276 BC–195 BC), Greek astronomer
- b. **Anaximander**, Greek **Anatolia** (610 BC–546 BC), philosopher
- c. Ptolemy **Ptolemaic Egypt** (c. 85–165), Greek astronomer
- d. **Dicaearchus**, Greece (c. 350 BC–285 BC), philosopher, cartographer

(Answer at end of newsletter)

Answers to Trivia Questions:

HIGICC Trivia Question #1:



HIGICC Trivia Question #2:

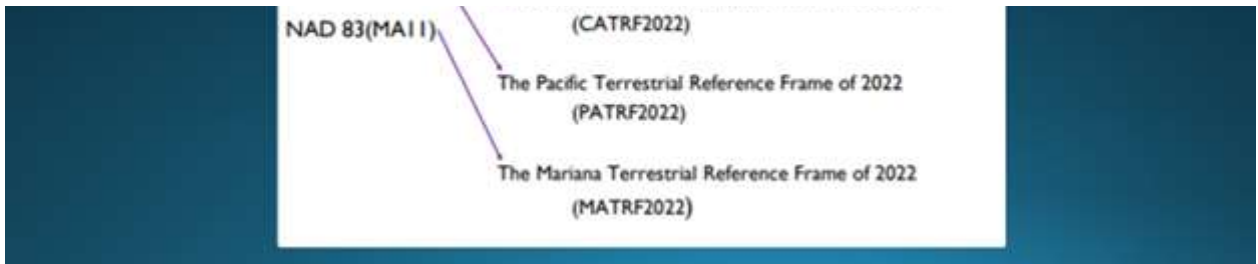
What is the name of the new 2022 datum for Hawaii?

- a. WGS 2022
- b. The North American Terrestrial Reference Frame of 2022 (NATRF 2022)**
- c. Global Mercator 2022
- d. Nad83 2022

Datum Names

The Old:
 NAD 83(2011)
 NAD 83(PA 11)

The New:
 The North American Terrestrial Reference Frame of 2022 (NATRF2022)
 The Caribbean Terrestrial Reference Frame of 2022



HIGICC Trivia Question #3:

This ancient scholar was known for calculating the Earth's circumference with high precision. He was the head of the Library of Alexandria.

- a. ~~Eratosthenes~~ Ptolemaic Egypt (276BC–196 BC), Greek astronomer
- b. Anaximander, Greek Anatolia (610 BC–546 BC),
- c. Ptolemy Ptolemaic Egypt (c. 85–165), Greek astronomer
- d. Dicaearchus, Greece (c. 350 BC–285 BC), philosopher, cartographer

Measuring the Circumference of the Earth

More than 2,000 years ago Eratosthenes compared the position of the Sun's rays in two locations to calculate the spherical size of the Earth with reasonable accuracy.





<https://youtu.be/wPR3XhIDP9w>

Mahalo to our sponsors!



