

Kamehameha Buys Kahuku Ranch for Ag, Education

Kahuku Ranch, the 665-acre parcel formerly owned by the Damon Estate, has been purchased by Kamehameha Schools. The historic ranch with its koa home, office, high producing cattle pastures, and ranch quarters is known for its very thick grasslands and its paniolo and Native Hawaiian history. It is adjacent to other Kamehameha Schools lands at Wai'ahukini. The land is on the makai side of Hwy 11, between South Point Road and Ocean View, makai of the Kahuku Unit of Hawai'i Volcanoes National Park.

A statement issued Jan. 4 from Kamehameha Schools says, the investment "consolidates ownership of area lands that include adjacent KS legacy lands and also provides for potential future agriculture or community education presence in the rural district along the southern tip of Hawai'i island." The property provides "access to a large swath of KS' Pākini ahupua'a. Additionally, this large property also has highway frontage and access to unique ma uka and ma kai cultural and natural landscapes."

Jamee Miller, director of KS' 'Āina Ulu, which works with KS 'āina tenants and partners on impactful outcomes that contribute to community resiliency, said the following: "Through responsible stewardship of 'āina, we support vibrant, resilient communities where keiki learn and thrive. Through planning and collaboration with the community, there is an opportunity to link educational, economic and community resources while forging strong partner networks and relationships." The ranch could



A village of seven homes at Kahuku Ranch, recently acquired by Kamehameha Schools

Kahuku Ranch, pg. 5

THE KA'Ū CALENDAR

Volume 20, Number 1

The Good News of Ka'ū, Hawai'i

January 2022

Black Sand Beach, LLC Presents Punalu'u Plans

A fourth meeting on the future of Punalu'u will be a workshop on Saturday, Jan. 15 from 11 a.m. to 2 p.m. at the multipurpose room next to the Robert Herkes Gym adjacent to the Pāhala School campus. Norman Quon, Project Director for Black Sand Beach, LLC's plan for the 432-acre oceanfront Punalu'u property, said the planning team wants more input from the community before turning in its plan to the County of Hawai'i. "We are hoping to turn in a plan during the first quarter of this year," he said.

The property includes the beach park, which is rented to the county; golf course, abandoned tennis center and abandoned commercial buildings, along with undeveloped resort, commercial and residential lands.

Quon said he will help lead the workshop, along with Black Sand Beach, LLC's principal owner Eva Liu, Planning Consultant Daryn Arai and Project Assistant Jadelynn Cabrerros. "It's the next step, to take it to another level, to really get the community and involve the community specifically in the project," said Quon. He said the plans for development have not changed since the three community meetings held in December.

During the December meetings in Nā'ālehu and Pāhala, Quon and Arai said the plan is to keep the lands in their current zoning, which means conservation along the coast and commercial, resort, and residential multifamily inland.

Among the details were creating an Open Market & Activity Center across from Punalu'u Black Sand Beach. The Market across from the A-Frame, beachfront Dahl-

Punalu'u Plans, pg. 3



Much like New Year's fireworks, incandescent lava fountains in Halema'uma'u can be a beautiful display. This photo shows lava from the western vent in Halema'uma'u reaching heights of 10-15 meters (30-50 ft) and supplying lava into the lake through a short spillway. *USGS photo by B. Carr*

It's Volcano Awareness Month

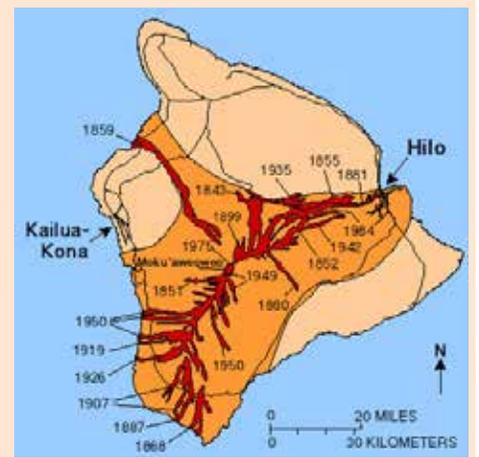
Hawaiian Volcano Observatory Scientists welcome the New Year by sending out a message asking, "Should Old Eruptions be Forgotten? We traditionally spend the New Year singing Auld Lang Syne, a song that reminisces about times long past. For the first month of the New Year, staff at the USGS Hawaiian Volcano Observatory, and hopefully you too, will reflect on past and ongoing eruptions during the annual Volcano Awareness Month."

The scientists explain that recent summit eruptions of Kīlauea have remained

confined to Halema'uma'u crater within Hawai'i Volcanoes National Park. These eruptions, one of them ongoing, have attracted many volcano-viewers, with stunning displays of eruption glow, lava fountaining, and a lava lake filling in the deepest part of Halema'uma'u crater that collapsed in 2018.

While eruptions of Hawai'i's volcanoes are beautiful and can often be safely viewed, they also have the ability to directly impact people and commerce on the Island of Hawai'i. Kīlauea's 2018 lower East Rift

Volcano Awareness, pg. 14



A history of lava flows from Mauna Loa. *USGS image*

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A pair of 'Alalā, which could be freed in Ka'ū Forest Reserve. *Photo from The Alalā Project*

Ka'ū Forest Reserve May Host 'Alalā

The 61,000-acre Ka'ū Forest Reserve could become a release area for 'Alalā, the endangered native Hawaiian crows, raised in captivity at the Keauhou Bird Conservation Center in Volcano, at a preserve on Maui and at San Diego Zoo. 'Alalā no longer live in the wild and attempts at reintroduction are ongoing, with adults residing and nesting in captivity.

"It is hoped that releases could be planned for the Ka'ū Forest Reserve after more management for promoting native forest habitat has occurred," says a statement from the 'Alalā Project, a program supported by the state, federal and private non-profit agencies.

Ka'ū Forest Reserve was established in 1906 to protect forest on lower slopes of Mauna Loa in Ka'ū District. It runs from the border of the Kahuku section Hawai'i Volcanoes National Park a above Hwy 11 near Ocean View, and above Wai'ōhinu, Nā'ālehu, Punalu'u and Pāhala to Kapāpala Ranch. Its mauka border is Hawai'i Volcanoes National Park.

From 2018 to 2019, 'Alalā release efforts took place in the Pu'u Maka'ala Natural Area in Puna. "Pu'u Maka'ala Natural Area *Endangered 'Alalā, pg. 10*

KA'Ū BUSINESS, REAL ESTATE

Volume 20, Number 1

The Good News of Ka'ū, Hawai'i

January 2022

Meadow Gold: Grow Feed to Rebuild Dairy Industry

Meadow Gold is urging local farmers to grow feed for dairy cattle to help rebuild Hawai'i's dairy industry; in addition, plant-based milks like macadamia can become new Hawai'i products, says the Managing Member of Meadow Gold Bahman Sadeghi. He bought Meadow Gold's assets in 2020 and is planning to expand its production facility in Hilo.

With experience in the business of dairy farming and shipping milk to Hawai'i, he said feed is too expensive to import. He said he believes feed can be grown, leading to more local dairy cows producing milk for the islands.

For locally produced milk, the company is now dependent on Cloverleaf, in Hawi, the sole commercial dairy farm in Hawai'i. With production at Cloverleaf equivalent to a small percentage of milk consumed across the state, Meadow Gold imports most of its milk from the mainland.

Meadow Gold is already expanding

its product line. In late November, Meadow Gold launched a Chocolate Milk in gallon and half-gallon containers. In addition to milk and ice cream, made here and on the mainland, Meadow Gold is known for producing Pog.

The company says it plans to invest about \$3 million to double the size of its Hilo processing plant, which serves the entire state; expand its workforce to up to 50 employees and increase milk production, ice cream and other dairy product production. It also plans to offer more plant-based products, including a macadamia milk. Up to \$6 million in additional processing equipment is also projected.

The plan for Meadow Gold's future is described in a draft Environmental Assessment that was open for public comment through Dec. 23. The location of the state-owned, Industrial zoned land is Kanoelehua Industrial Area at Railroad and Leilani in Hilo, where the Meadow Gold processing plant operates. The plan is to expand the facility to 1.6 acres of 35.18 acres leased from the state. See the Draft EA on the State of Hawai'i's



Meadow Gold is bringing back its Lani Moo promotional icon. Photo from Meadow Gold

Office of Environmental Quality gov/Doc_Library/2021-11-23-HA-DEA-Control at http://oeqc2.doh.hawaii.gov/Doc_Library/2021-11-23-HA-DEA-Control Meadow-Gold-Expansion.pdf.

Kahele Team Meets Coffee Farmers: Land, Labor, Pests

Congressman Kai Kahele sent a team to meet with Ka'ū Coffee farmers in December. Dave Chun and Hanalē Lee Loy discussed three major issues with members of coffee cooperatives: Land security, disease and labor.

Land security was a top issue, reviewing progress toward farmers receiving low-interest U.S. Department of Agriculture, state and private loans. Ka'ū Coffee Growers Cooperative President Gloria Camba reported that many of the 51 farmers at Moa'ula and Pear Tree, above Pāhala, have applied for land loans. They hope to buy their farms which are going up for sale with the farmers having first option before the real estate investment company that owns them sells them on the open market.

While many farmers hope to purchase with cash or through a loan, a number of farmers may be left out. Some new farmers do not have a long record for successfully growing coffee. Some others have reached their credit limit, with mortgages and money going for educating their children and the extra expenses on their farms for equipment and for supplies to stave off disease and pests.

Chun discussed the possibility of coffee farmer cooperatives attempting to purchase the lands individual farmers can't afford and continuing to rent the coffee orchards to them.

Lee Loy and Chun promised to help with funding for disease control, with Coffee Leaf Rust one of the major threats to the coffee farmers, along with Coffee Berry Borer.

Another issue, according to Camba, is labor for the coffee orchards. She said the farmers discussed the possibility of the U.S. government welcoming more workers from the Philippines to help pick and care for coffee farms. Camba noted that Filipinos are a major component of the coffee farming community and are in touch with others who would come here to work.

Community Meeting

on the

Waikapuna Resources Management Plan

Purpose of the Meeting:

- Provide background information on the process and schedule for the Management Plan
- Gather input on the cultural and natural resources to preserve and protect
- Understand areas of concern relating to the resources
- Identify opportunities for stewardship

Wednesday, January 26, 2022

6:30 p.m. – 8:00 p.m.

Via Zoom

Log on at: www.zoom.com
Meeting ID: 837 4467 8871
Passcode: kau

Dial-in: (346) 248-7799 (Audio only)
Meeting ID: 837 4467 8871
Passcode: 816026



Can't make it? Meeting will be recorded. Please contact Gabrielle Sham, Townscape, Inc. via e-mail at gabrielle@townscapeinc.com or at (808) 550-3894 to receive a link to the Meeting Recording.

Additional questions? Please contact Gabrielle Sham via e-mail or phone, or Maxine Cutler, County of Hawai'i, Department of Finance, Property Management Division at (808) 961-8069.

Pursuant to the Governor's Emergency Proclamation Related to Sunshine Law In-Person Meetings dated December 29, 2021, the requirement to have at least one in-person meeting location has been suspended through February 28, 2022. No in-person meeting location will be provided during this time period, unless the suspension is earlier terminated or superseded by a separate proclamation.

THE KA'Ū CALENDAR

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January 2022, Vol. 20, No. 1
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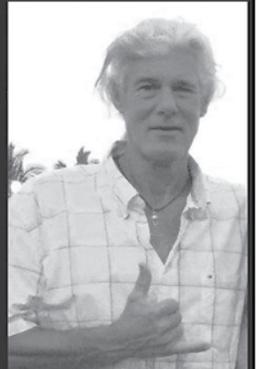


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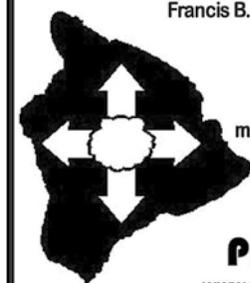


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KA PEPA PĀHALA

Volume 20, Number 1

The Good News of Ka'ū, Hawai'i

January 2022

Friends of Libraries Remembers Citizen, Farmer, Teacher Ann Fontes

The late Ann Misako Fontes, March 3, 1943 to Nov. 22, 2021, is the subject of tribute and high praise from Friends of the Ka'ū Libraries. The statement says Fontes was the organization's most active member on the Board of Directors for the past nine years, elected and re-elected for four terms as President, alternating with two terms as Treasurer.

"Her proudest achievement was in 2012 when she assisted with a petition with over 300 signatures to stop the closure of Pāhala Public and School Library. This petition was submitted to Gov. Neil Abercrombie to keep it open. We were successful in this endeavor," says the Friends of the Li-



Ann Fontes was President of Friends of the Ka'ū Libraries for four terms. Photo by Julia Neal

braries statement. "She assisted at all our fundraising events where we sell books which provide funds to our two libraries that supplement their funding from the government."

Fontes was an active member of River Punalu'u Plans, from pg. 1

berg House would be a two-story facility with an area for sales for farmers, fishermen and retailers on the open ground level and a second story with a restaurant.

Adjacent would remain "Tutu's House," the longtime home of 98 year-old Jeanette Howard, who grew up in Punalu'u and is a native speaker of Hawaiian. The team promised to allow her to stay in her home for the rest of her life. Mauka of her house would be an Activity Center retail and office.

Above Tutu's House, according to the Black Sand planners, there could be a Punalu'u Park with horse paddocks, walkways, bike runs, and open space. There could be a children's playground, day care center,

of Life Assembly of God Church, helping with its monthly program for middle to high school youth in Ocean View, Discovery Harbour, Nā'ālehu and Pāhala. The sessions included basketball and pingpong. She prepared light healthy meals for the group that grew from eight youth in 2012 to more than 50 by 2018.

Fontes was an active member of Ka'ū Coffee Growers Cooperative, serving on the board starting in 2012 and as its secretary for three years. She continued as a Director at Large, assisting with workshops to help coffee growers succeed and provide work opportunities for coffee pickers.

In 2013, Fontes worked with youth, grades six - 12 in the Up Link program, teaching gardening and nutrition.

The statement from Friends of the Ka'ū Libraries notes that Fontes lived most of her life in Hawai'i and worked on Kaua'i, Moloka'i, Lana'i and Hawai'i Island. She turned to life in Pāhala in 1993 but was born and raised on Kaua'i on a pig farm owned by her family. "Her love and attachment for her own pigs on her farm stem from childhood. She firmly believes pigs are very smart and understand what you say to them." Fontes' farm and house is makai of Hwy 11, on the Volcano side of Pāhala. She retired from working with University of Hawai'i at Hilo Extension Services.

cultural games, bike paths, and a rope challenge course. "A wonderful resource in an abandoned golf course," was the way Quon described it, suggesting that some treehouses be added. "A mini- zip line to create a little action," was also imagined, along with kite flying, miniature golf and electric bikes.

The park, with its "great view of Makanau," was described as a way to draw people away from the already crowded beach, while creating jobs and a place for local people and visitors. "Visitors and residents can use a large component of Punalu'u for economic and recreational opportunities."

The team said many people have called for rebuilding the old Punalu'u restaurant next to the pond on the Black Sand Beach

but the county, state and federal regulatory environment would require a lot of effort. The restaurant would have to be at 17 feet in elevation, by raising it 12 feet. An art center dedicated to Herb Kane could be near the old restaurant area. The remains of the old restaurant could be repurposed. A lū'au grounds could be possible, said the



Ann Fontes (right) with Gail Kalani volunteer for Ka'ū Coffee Growers Cooperative and Ka'ū Coffee Festival.

"We as members of the Friends of the Ka'ū Libraries are all amazed by this petite, strong, active woman who has shared so much of her education and experience, including Iowa State University and Junior Year Abroad at Beirut Women's College in Lebanon. She has a global comprehension of knowledge obtained through travel and education that has given her an understanding of multicultural societies and acceptance of different outlooks to life," wrote Friends of the Ka'ū Libraries Board Member Dorris M. Davis.

Fontes wrote that one of her favorite active memories was climbing to the top team from Black Sand Beach, LLC.

Inland at the old tennis center across from the condominiums would be a Sports & Wellness Center, with Tai Chi, massage and spa, and possibly a setting for outdoor films and concerts. A coffee roastery and café would be on site, along with 60 condos. Across the street, mauka of the current condos at SeaMountain, would be 76 new condos in one-, two- and three-story buildings for views of the golf course and coast.

The old Aspen Center would be restored for conferences and events like weddings. Around it would be tent structures and elevated cabins, on post and pier.

Closer to the coast, the old golf clubhouse would be restored for nine-hole play, adjusting the hole placement as the other nine holes are turned into a park. There would be a putting green and driving range.

Quon stressed that the planning and use of the place would involve local people. "Without the community, this would just be another resort." He said it would not become another Hualalai or Kohana'iki Private Club, two of the high end resort communities near Kona Airport.

One member of the public said she is concerned about the nēnē - the threatened Hawai'i state bird, which has decided to make Punalu'u its home, using the golf course ponds and grassy areas. She said that the presentation about Punalu'u's future neglected to address the nēnē, sea turtle population and protection of other natural resources. Quon apologized and said there will be a land management plan, working with Fish & Wildlife and the state Department of Land & Natural Resources.

Photo by Dave Corrigan/Big Island Video News of Clopes pyramid in Egypt. "The view was awesome and breathtaking. What goes up must come down and that was a big challenge."

She said her life legacy is "to encourage adults and youth to volunteer and be active in helping the communities become safe places for them to become productive citizens."

She said enjoyment comes from her gardening, growing coffee and raising pigs, and attending lectures, theater performances, museums, programs and special events at Hawai'i Volcanoes National Park.

Another citizen asked if the plans are "in line" with the Ka'ū Community Development Plan. Arai said that the entire coastline is in conservation zoning. "There is nothing we can do" there, in respect to development.

Another citizen noted that the Black Sand Beach is "very tiny" and already crowded. She said the project would likely bring more people to it. She said she grew up on O'ahu and that she is "really worried about Ka'ū," calling it the last place in the islands. "If you grew up O'ahu, you know how fast things went."

Quon said that creating recreational and retail opportunities away from the beach should help draw people off the coast.

A beekeeper asked about the kinds of poisons that would be used at the resort and whether it will become an example of sustainable, green development. She encouraged the landowner and planners to begin "with something green, something new"...to reach out to people in agroforestry and other disciplines.

Arai said, "that's the type of guidance we need."

County Council Chair Maile David attended one of the meetings in person and said she encouraged Liu to interact with the people of Ka'ū. "I told her, 'If you plan to do anything for the community, reach out to the community.'" As the council member who represents Ka'ū, David said she is in discussion with Liu on the possibility of the county purchasing the shorefront land "or portions of it" through the Public Open Space & Natural Resources Commission program that uses two percent of county property taxes to buy

Punalu'u Plans, pg. 4

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Stars Over Ka'ū - January

By Lew & Donna Cook

At the time our chart is drawn for (10 pm on the 15th) no planets are visible. Mars is too close to the sun for it to be easily seen, however look for it to appear back in our morning sky. By the end of the month, it will rise about 4:30 am. On February 2nd, 2022 Mars and Venus will rise together at 4:32 am. Venus is now getting closer to the earth during early in January. Concurrently, it is getting larger as its distance from earth decreases. It also appears to be getting closer to the sun as we see it. At sometime near January 10, 2022, Venus will pass north of the sun by around 5 degrees. Then the entire process reverses.



Double Cluster - S. Forman

These two star clusters are about 7500 light-years (l.y.) distant (compared with the Pleiades at 444 l.y.).
Credit: Stuart Forman.

SUN

Date.....	Sunrise	Sunset
Jan. 7	6:57 am	6:00 pm
Jan. 14	6:58 am	6:04 pm
Jan. 21	6:58 am	6:08 pm
Jan. 28	6:57 am	6:13 pm

CONSTELLATIONS AND DEEP SKY OBJECTS

The Orion nebula is always impressive. It is forming new stars now and will continue this for millions of years. The Ple-



M51 HUBBLE
This beautiful Hubble Space Telescope image shows the nearly face-on M51 Galaxy. M51 is 31 million l.y. distant. It is going to rise "below" the handle of the big dipper about half an hour after chart time.
Credit: Hubble STSCI/NASA/ESA



NGC 891 - J. HAWN

This view of NGC 891, the Silver Sliver Galaxy, shows what a spiral galaxy looks like when viewed edge-on. It is about 23 million l.y. distant. We face a similar view within our Milky Way Galaxy.
Credit: Jim Hawn

MOON AND SUN

EVENT

Date.....	Moon Rise	Moon Set
New Moon		
Jan. 2	7:04 am	6:13 pm
First Quarter		
Jan. 9	12:22 pm	1:01 am
Full Moon		
Jan. 17	6:09 pm	6:59 am
Last Quarter		
Jan. 25	12:27 pm	12:16 am
New Moon		
Jan. 31	6:45 am	6:04 pm

Punalu'u Plans, from pg. 3

special places. David said that Punalu'u is already on the list for PONC properties. For the process to begin, it would need a willing seller.

The council member also noted that the meeting was full of emotion, with many points of view, and encouraged the community to continue to give input and understand that the planning process will take some time.

Several speakers blamed the sugar plantation, which built the original Punalu'u resort, which is now partially abandoned, for bulldozing old house sites and natural areas. They also said that earlier proposals to bring back the resort, like one fronted by marine conservationist Jacques Cousteau's son, did not engage with the public as much as Liu and her Black Sand Beach, LLC and said the older plan called for many more units of visitor accommodations and housing for the

resort. iades in Taurus is very pretty also. Please take time to just look around the sky with your binoculars. You may find something exciting!

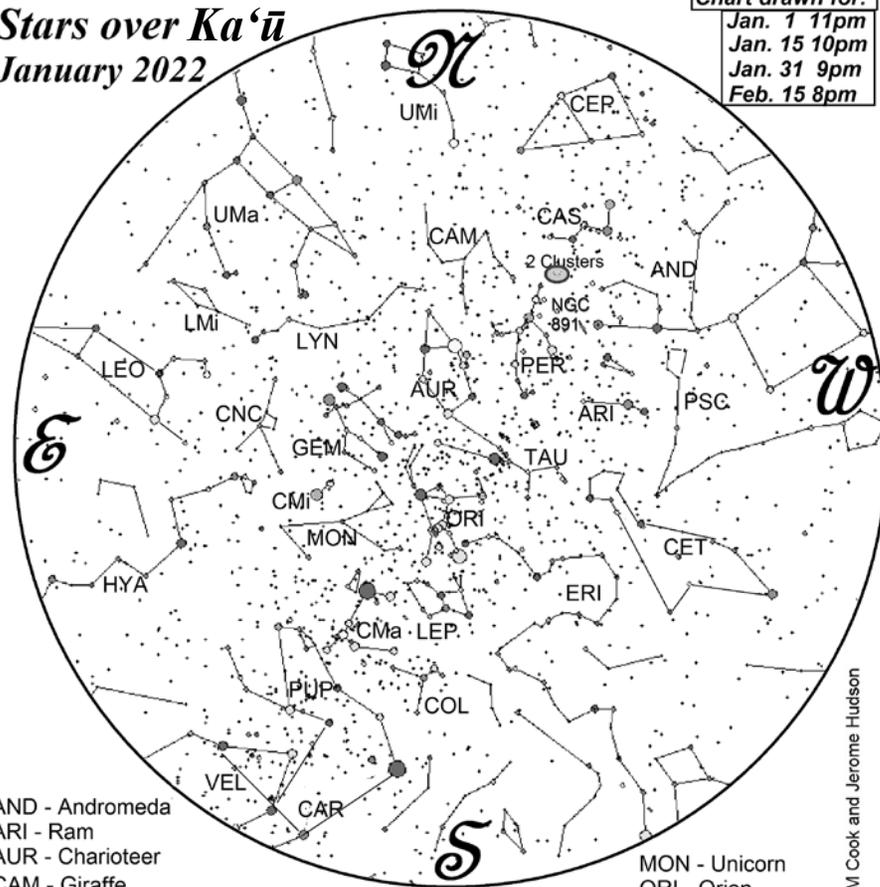
Up north, near the Cassiopeia - Perseus border, is the famous double cluster. These are two clusters, but younger than the Pleiades. These are more distant than

Other speakers said they are worried about resort development at Punalu'u. A woman said she is confused about the plan, which calls for creating activities away from the beach in order to keep it from becoming even more crowded. She said more facilities could draw more people to Punalu'u.

Ash Kanahale said he opposes the development plan. Kanahale, a firefighter, said he was raised on O'ahu and Kona but lives here with his family. He said the latest developers said they expect "a lot of kickback" (opposition), "but you want to do it anyway." He said the developers said they don't want to impact the land- so plan to build some accommodations on stilts - "but you are going to do it anyway." Concerning the presentation to the community, he pointed to "every other group that has done this around the state." He said, "If you want the heart of the
Punalu'u Plans, pg. 6

Stars over Ka'ū January 2022

Chart drawn for:
Jan. 1 11pm
Jan. 15 10pm
Jan. 31 9pm
Feb. 15 8pm



AND - Andromeda
ARI - Ram
AUR - Charioteer
CAM - Giraffe
CAR - Keel
CAS - Cassiopeia
CEP - Cepheus
CET - Whale
CMA - Big dog
CMi - Puppy

COL - Dove
ERI - Riv. Eridanus
GEM - Twins
HYA - Hydra
LEO - Lion
LMi - Lion cub
LYN - Lynx

MON - Unicorn
ORI - Orion
PER - Perseus
PSC - Fishes
PUP - Poop deck
TAU - Bull
UMa - Big bear
UMi - Bear cub

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How to use this map: Hold this map over your head so that the northern horizon points toward the north on the Earth. For best results, use a red flashlight to illuminate the map. If you are looking east, hold it in front of you so that east is on the bottom. For south views, south at the bottom, and for west, west at the bottom. Use this map at the times shown on in its upper left corner. Keep this page handy and show it to your keiki next month. They probably have bedtimes before the time of the chart shown here. Check the colors of the stars with the color version at KauCalendar.com.

The constellations are presented with their 3-letter abbreviations, with their common names shown in the margins. This is done to take advantage of the truly dark skies Ka'ū is blessed with when there is no bright moon and the skies are clear of vog. The star charts are produced from a sky Atlas program written by Jerry Hudson, who has given us permission to publish it. Thank you, Jerry.

the Pleiades which is why they are fainter. They are just visible to the unaided eye in a dark and clear sky. Stu Forman sends us this image. Aside from a pair of double stars, these represent the fewest number of stars that are gravitationally bound together. Next up in number of stars are globular clusters, and then elliptical galaxies.

Then come spiral galaxies! Here is M51 in this beautiful image from the Hubble Space Telescope as we expect to see them. The Hubble image presents the spiral nearly face-on. But how would it look if

we saw it edge-on? Jim Hawn presents this beautiful picture of the galaxy NGC 891. Jim spent over 9 hours collecting the light for this image using a six inch refracting telescope. Its location is shown on the star chart between Perseus and Andromeda.

LOCALLY

Don't forget to visit the Planetarium in Hilo, which has reopened after being closed. Call Imiloa Astronomy Center (808.932.8901) at 600 Imiloa Place, Hilo, HI 96720 or online at www.imiloahawaii.org for prices and programming.



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KA'Ū SPORTS REPORT

Volume 20, Number 1

The Good News of Ka'ū, Hawai'i

January 2022

Ka'ū High Winter Sports Rock On, Minus Spectators

Ka'ū High is hosting and traveling to Swimming, Girls Basketball and Boys Basketball winter sports events, but without spectators to cheer on the Trojan teams.

Ka'ū Trojans Girls Basketball, with Coach Jacob Davenport and Assistant Coach Chrysa Dacalio, was scheduled at Hilo on Wednesday, Jan. 5 at 6 p.m. and Tuesday, Jan. 11 at Kea'au at 6 p.m. Ka'ū hosts Kohala on Saturday, Jan. 22 at 6 p.m. and travels to Honoka'a on Friday, Jan. 28 for a game at 6 p.m. Ka'ū hosts Pāhoā on Saturday, Jan. 29. and Christian Liberty on Tuesday, Feb. 1., both at 6 p.m. Ka'ū travels to Honoka'a on Friday, Feb. 4 for a 6 p.m. game.

Boys Basketball, with Coach Douglas Porter and Assistant Coach Troy Gacayan, was set for Kamehameha coming to Ka'ū on Friday, Jan. 7 at 6 p.m. Ka'ū travels to Waiakea on Jan. 12 for game at 6 p.m. Ka'ū hosts Hawai'i Preparatory Academy on Saturday, Jan. 15 at 6 p.m. Ka'ū hosts Hilo on Tuesday, Jan. 18 at 6 p.m.; Ka'ū travels to Honoka'a for a game on Friday, Jan. 21 at 6 p.m. Ka'ū hosts Kohala on Saturday, Feb. 5 at 6 p.m. Ka'ū travels to Pāhoā for a game on Friday, Feb. 11. Ka'ū hosts Kea'au at 7 p.m. on Tuesday, Feb. 15.

The swimming coach is Doreen Fisher with upcoming meets on Saturday, Jan. 11 at Hawai'i Preparatory Academy at 10 a.m., Saturday, Jan. 18 at Kamehameha at 10 a.m. and Saturday, Jan. 25 at HPA at 10 a.m. The preliminaries and finals are at Kamehameha on Friday, Jan. 31 at 3:30 p.m. and Saturday, Feb. 1 at 9 a.m.

Big Island Interscholastic Federation announced in early January that "procedures have been developed, and now modified again, to adjust to the new and continued rise in COVID case numbers due to the new Omicron variant." Among them is the banning of all spectators at BIIF indoor and outdoor sporting events, until further notice. In addition, all BIIF member schools, and any school who travels to the Big Island to participate in a BIIF athletic event, shall require mask

wearing except when student-athletes, coaches and officials are participating in the athletic event. Masks are required when sitting on the bench, going to the restroom, and when on premises before and after the game.

No concession will be available at any BIIF sanctioned event. No outside food or beverages will be allowed at any BIIF sanctioned event. BIIF Schools who utilize County of Hawai'i facilities, such as the ballpark and Robert E. Herkes Gym in Pāhala may be subject to supplemental County of Hawai'i guidelines that may override BIIF guidelines. Schools using County of Hawai'i facilities must communicate the details of superseding guidelines to the BIIF, visiting teams and fans.



Ka'ū High Trojans swim team, led by Doreen Fisher, is sliding through the waters around the island competing against other schools into February. Photo by Kayla Nishimura



Fond Farewell for Athletic Director Kalei Namohala

Kalei Namohala has departed from her 12-year stint as Athletic Director for Ka'ū High. Namohala returned to her high school alma mater at Waiakea High in Hilo. The announcement drew a slew of comments of appreciation on the social media pages of Ka'ū High. Namohala was key to the Trojan success playing eight-man football and for many other accomplishments in the athletics department at Ka'ū High School.

In addition, Namohala volunteered for many community activities, including giving out food during the pandemic and sponsoring and participating in youth oriented celebrations.

Photo by Julia Neal



Kalei Namohala's 12 years as Athletic Director included giving out food during the pandemic. Photo from Trojans

Kahuku Ranch, from pg. 1

also support agricultural and food systems



Kamehameha Schools has purchased the 665-acre Kahuku Ranch, makai of Hwy 11 near Ocean View. Photo from Kamehameha Schools

activities such as securing a lessee to raise livestock or grow fruit trees, says the KS statement. "KS' immediate focus is on properly securing and stewarding the 'āina and facilities. While there are no set long-term plans, KS will be carefully assessing all options to create positive resilient community impact."

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Ka'ū Public Schools Reopen for In-Person Learning & Interaction

Public schools reopened with in-person learning in Ka'ū, with teachers returning Monday, Jan. 3 and students returning Tuesday, Jan. 4 at Nā'ālehu and Ka'ū High & Pāhala Elementary and Volcano School of Arts & Sciences.

Nā'ālehu Principal Darlene Javar sent out a message saying, "Aloha Nā'ālehu Elementary School 'Ohana, We hope you are having a safe, enjoyable holiday season. The Hawai'i Department of Education is committed to in-person learning for our students' social development and academic achievement. Students return January 4. We will continue with our NES mitigation strategies to promote student and staff safety.

"Out of an abundance of caution, at Nā'ālehu Elementary School, if you are concerned with 'on campus' learn-



Nā'ālehu Elementary School Principal Darlene Javar after receiving a Covid booster:
"Sometimes Aloha looks like a mask. Sometimes Aloha pinches like a needle... Just got my booster because there are lots and lots of people and keiki I care about."

Photo from facebook

Aloha for one another. Sometimes Aloha looks like a mask. Sometimes Aloha pinches like a needle. Sometimes Aloha is measured by a couple of feet...even if we love you to the moon and back."

Javar received a Covid booster in mid December, saying, "Just got my booster because there are lots and lots of people and keiki I care about."

ing for the first four days of school, NES will allow excused absences for Jan. 4th to Jan 7th, if work is completed. Work must be picked up on Wednesday, Jan. 5, 1:15 - 3:15 pm at the bus overhang. Please continue to be safe this Winter Break. Aloha!"

Javar also noted the following: "We really want our students back, but the choices we make in our personal lives impact our NES School 'Ohana. A healthy community increases the likelihood of a healthy school, and vice versa. We need to live with a Sense of

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Punalu'u Plans, from pg. 4

people, you don't want it." He also cautioned, "Look what happened on the mountain," referring to Mauna Kea protests concerning the planned Thirty Meter Telescope. "We don't want to sit back and let you run through our community," said Kanahele. "I am definitely against this."

Trini Marques, who said she worked at the old Punalu'u restaurant, recalled the community going there and said she welcomes anyone who would help clean up the abandoned place. She stated that she has always wanted to preserve the road mauka of the old restaurant site for the fishermen and encouraged the current developers to respect Hawaiian knowledge about the place. "Once you touch it, you damage it, can not take it back." She also said, "We are survivors" and, "We are warriors." She said she supports Liu's efforts to engage with the community.

Another speaker said he appreciates the simplicity and the economy

*Punalu'u Plans, pg. 13
The Ka'ū Calendar*

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EVENTS & ACTIVITIES

Ho'okupu Hula No Ka'ū Went Virtual in December

Ho'okupu Hula No Ka'ū went virtual on Saturday, Dec. 11. The annual hula and cultural festival, previously held live



Hālau Hula O Leionalani with Kumu Hula Debbie Ryder during their cultural festival in December. *Photo from the hālau*



Hālau from afar virtually joined Hālau Hula O Leionalani in the annual Ho'okupu Hula No Ka'ū, this year held virtually at Nā'ālehu Hongwanji. *Photo by Laurie Ortega*

Leionalani and Uhane Pohaku Na Moku O Hawai'i, Inc.

The virtual event was headquartered at Nā'ālehu Hongwanji and venues in Mexico, the mainland U.S., Japan and Okinawa. The free link is www.facebook.com/groups/hookupuhulanokau.



Kumu Hula Debbie Ryder and hālau member Chloe Iokepa-Moses.

See hālau from Mexico, the singing of a song and performance on an ancient Okinawan stringed instrument, music by the band Keaiwa and more at <https://bit.ly/3HImq1R> and <https://bit.ly/3pZjIVq>.

at Pāhala Community Center and Pāhala Plantation House, is sponsored by Kumu Hula Debbie Ryder of Hālau Hula O

University of Hawai'i Classes Start On-Line, In-Person

Many University of Hawai'i classes go online for the opening of spring semester. The UH system released the following statement:

The ten campuses of the University of Hawai'i will temporarily move many spring 2022 in-person courses to an online delivery for the first two weeks of the semester because of the record surge of COVID-19 cases in Hawai'i due to the highly contagious Omicron variant. The first day of spring semester classes remains Monday, Jan. 10 with a full return to scheduled course delivery on Monday, Jan. 24.

UH President David Lassner made

the announcement, noting that UH joins dozens of other colleges and universities from across the country that are temporarily moving courses online to start the spring semester.



The announcement stated that only courses that can be "effectively taught online" will be impacted. Many lab sections, clinical experiences, Career and Technical Education (CTE) shop courses and

studios will continue to be taught safely in-person, which includes physical distancing, wearing masks indoors, daily health screenings and other measures to help prevent the spread of COVID-19.

Each campus will determine which courses will be moved online based on considerations

including COVID-19 conditions in the area, density of student populations in classrooms, number of students who will be traveling back to campus and instructional needs to keep all students on track to graduate. Students and employees are encouraged to monitor announcements from their campus leaders for campus specific information.

"We are not changing course modalities but merely making this adjustment to maximize the safety of our campuses including those who may be returning from another island or farther," said Lassner in the announcement. "We are disappointed to take this action but believe it is appropriate to protect the health and safety of our students and employees."



UNIVERSITY of HAWAII HILO

UH Hilo, and on-campus services which will remain available during normally scheduled hours.

Lassner also urged everyone to get a COVID-19 vaccine booster shot as soon as they are eligible, typically six months after the final dose. He said that planning is underway to make booster shots part of the UH vaccination requirement for students and employees.

As of Jan. 3, all UH students and employees are required to be fully vaccinated or have a university approved medical or religious exemption. Those with an approved exemption are required to regularly submit proof of a negative test to the LumiSight UH daily health check app. Students who are 100% online are the only exception to the vaccine requirements.

To be on a UH campus, an all-clear from the LumiSight UH app is required, proven with verified vaccination information, or an approved exemption and a verified negative test result when completing the daily health screening. Everyone is also required to wear face masks when indoors and when outdoors near others.

UH campuses will remain open during the two-week period, including residence halls at UH Mānoa and

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COMMUNITY CALENDAR

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OCEAN VIEW DRIVE IN presents movies on Fridays at 6:30 p.m. Gates open at 4 p.m. Once the car park area is full, gates will be closed. There will be refreshments on sale, such as Thai Grindz, popcorn, and candy. No entry or membership fee; donations accepted. Attendees must join Ocean View Theater Club on Facebook. For details, see the Ocean View Community Market and Outdoor Theater Facebook page.

GOLF & SOCIAL MEMBERSHIPS for Discovery Harbour Golf Course and its Clubhouse: The Club offers Social Memberships, with future use of the clubhouse and current use of the pickleball courts as well as walking and running on specified areas of the golf course before 8 a.m. and after 3 p.m. to enjoy the panoramic ocean views. Golf memberships range from unlimited play for the avid golfer to casual play options. Membership is required to play and practice golf on the course. All golf memberships include Social Membership amenities. Membership fees are designed to help underwrite programs and improvements to the facilities. Call 808-731-5122 or stop by the Clubhouse during business hours, 8 a.m. to 4 p.m. daily at 94-1581 Kaulua Circle. Email clubatdiscoveryharbour@gmail.com. See The Club at Discovery Harbour Facebook page.

HIKE ONE OF THE MANY OPEN TRAILS AND SEE THE LAVA LAKE. Drive to the overlooks in Hawai'i Volcanoes National Park at Volcano and Kahuku units. See nps.gov/havo.

TAKE A GUIDED WALK THROUGH A Nature Trail & Sculpture Garden, Mondays, 9:30 a.m. at Volcano Art Center Ni'aulani Campus in Volcano Village. No reservations for five or fewer – limited to ten people. Free; donations appreciated. Email programs@volcanoartcenter.org. Garden is open to walk through at one's own pace, 10 a.m. to 4 p.m. weekdays. volcanoartcenter.org, 967-8222.

KA'Ū COFFEE FESTIVAL'S VIRTUAL PRESENCE is archived at www.kaucofffestival.com. See stories and photos of farmers and their orchards, a concert and classes and discussions about Ka'ū Coffee.

OUTDOOR MARKETS

VOLCANO FARMERS MARKET, Cooper Center, Volcano Village on Sundays, 6 a.m. to 10 a.m., with much local produce, baked goods, food to go, island beef and Ka'ū Coffee. EBT is used for Supplemental Nutrition Assistance Program, formerly Food Stamps. Call 808-967-7800.

Ō KA'Ū KĀKOU MARKET, in Nā'ālehu, open Wednesday, and Saturday, 8 a.m. to 2 p.m. Masks, temperature checks and hand sanitizing required, social distancing enforced. No vaccination proof required. Contact Sue Barnett, OKK Market Manager, at 808-345-9374 (voice or text) or kaufarmer@aol.com for more and to apply to vend. See facebook.com/OKauKakouMarket.

OCEAN VIEW COMMUNITY MARKET, open Saturdays and Wednesdays, 6:30 a.m. to 2 p.m.,

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Miracle Service with Ken Gaub
Saturday, Jan. 15 at 6 p.m.

Night of Worship
Friday, Jan. 21 at 6 p.m.

Special Service with Pastor John Trusdell
Sunday, Jan. 30 at 8:30 a.m. and 10:00 a.m.

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Lā'au Letters: Native Plants of Ka'ū

Welcome to Lā'au Letters: Native Plants of Ka'ū. Read about Ka'ū's native plants and their mo'olelo (stories), uses, preferred habitats, and opportunities to adopt them for stewardship. This column seeks to encourage making new plant friends and to reunite with others.

Pōhuehue

Ipomea pes-caprae subsp. brasiliensis

Description: Pōhuehue is an indigenous liana in the morning glory family (Convolvulaceae), related to 'uala (sweet potato), koali 'awa, pā'ū o hi'iaka, and kauna'oa, to name a few. A single pōhuehue vine can spread 30 feet or more, revealing a beautiful network of funnel-shaped flowers with shades of purple at the center that fade into pink, lavender, or white lines of color and bloom year round, and unmistakable waxy, heart-shaped leaves. Pōhuehue is often found with Kauna'oa (both along the coast and in lei), embodying the mo'olelo of the two lovers who spent much time together falling in love on the beach. One day, after an argument, Pōhuehue fled by canoe to Lāna'i, where he stayed for many years. Despite their time apart, Kauna'oa was hopeful that her lover would return. One night, Kauna'oa entered into Pōhuehue's dreamscape, and when he woke, he scattered hau flowers into the ocean. The flowers traveled across the sea and reached Kauna'oa, where she followed them to Pōhuehue on the shores of Lāna'i. To this day, when you find Pōhuehue, you are likely to also find Kauna'oa.

Uses: Nearly every part of pōhuehue is useful. Roots, vines, and leaves can be pounded and bound to broken bones, sprains, and wounds using a kapa bandage. The pliable stems make excellent cordage, the long vines were used in fishing. There is a mele (chant) to call

in the surf in which long vines of pōhuehue are slapped against the water in hopes of bringing a swell. The leafy vines are often used in lei. Do not eat pōhuehue leaves (unless already familiar with doing so), as they are cathartic.

Habitat: Pōhuehue thrives along the sandy backshore of dry coastlines across Hawai'i and Papahānaumokuākea. Preferring full sun and tolerating salt spray, pōhuehue is a hardy component to any leeward coastal strand ecosystem and a great species choice for erosion control. In Ka'ū, pōhuehue blankets the rough coastline of Wai'ōhinu Ahupua'a in great densities, as well as in patches within Kamā'oa and Kiolaka'a Ahupua'a.

Growing and Purchasing: Pōhuehue cuttings will root easily with or without rooting hormone. Simply placing the cutting in a jar of fresh water will produce roots within 1-2 weeks. Pot rooted cutting into media amended with sand, cinder, or coral. Once established, plant your pōhuehue in an area with full sun (Pōhuehue does not like shade) and a well-drained soil. Pōhuehue can quickly grow into a dense groundcover, so give it room to spread (and / or prune to desired size). Pōhuehue is often for sale at local native plant nurseries and big box hardware stores. If local genetics are preferred, please contact the author for advice.

About the artist: Joan Yoshioka says she is a conservationist at heart and has dedicated her life to preserving the native plants and animals of Hawai'i through her work with federal, state, and private organizations over the past 30+ years. She describes herself as an outdoor-lovin' optimist, biologist/botanist, and habitual creator of art-stuff. She says the key to our most fundamental and truest part of ourselves is found in nature and she constantly draws on it for inspiration.

About the author: Jodie Rosam says she has a deep love for native plants and a passion for exploration, with over 15 years of experience in working in the restoration of Hawai'i's forests. As a mother and an educator, she says the next generation has the power to lead the world to a sustainable future, and is committed to teaching her children (and others) from a place-based perspective.



Pōhuehue *Ipomea pes-caprae subsp. brasiliensis*, by Joan Yoshioka



Joan Yoshioka



Jodie Rosam

on the corner of Kona Drive and Highway 11, where Thai Grindz is located. Masks mandatory. 100-person limit, social distancing required. Gate unlocked for vendors at 5:30 a.m., \$15 dollars, no reservations needed. Parking in upper lot only. Vendors must provide own sanitizer. Food vendor permits required. Carpooling encouraged.

OCEAN VIEW SWAP MEET open at Ocean View makai shopping center, near Mālama Market. Hours for patrons are 8 a.m. to 3 p.m. Saturday and Sunday. Vendor set-up time is 5 a.m. Masks required.

ALOHA FRIDAY MARKETPLACE is hosted by Nā'ālehu Main Street on Fridays from 9 a.m. to 2 p.m. on the grounds of the Old Shirakawa Estate in Wai'ōhinu. It features Made in Hawai'i Products, Organic Produce, Creative Crafts, Art, Flowers & Plants, Food, Music, and more. Email AlohaFridayMarket@gmail.com.

THE BOOK SHACK is open every Wednesday, 9 a.m.-3 p.m. on the Kauaha'ao Congregational Church grounds, located at 95-1642 Pinao St. in Wai'ōhinu.

CHURCHES

THE MARSHALLESE NEW BEGINNINGS CHURCH has Sunday services starting at 5 p.m., as well as Bible studies on Wednesdays at 7 p.m. on the grounds of Ocean View Evangelical Community Church. The church is located at 92-8977 Leilani Circle in Ocean View. For further information, contact Pastor Atkin Jello at 479-316-9892.

OCEAN VIEW EVANGELICAL COMMUNITY CHURCH holds services on Sundays at 10 a.m.

In-person services follow CDC guidelines and Hawai'i mandates by using hand sanitizing, wearing face masks, and practicing social distancing. Sermons and additional information are posted at www.ovevangelicalcommunity.church. Contact phone numbers as well as email contact information can also be found there. The church is located at 92-8977 Leilani Circle and the church phone number is 808-939-9089.

SUNDAY OUTDOOR WORSHIP is available at Wai'ōhinu's Kauaha'ao Congregational Church. Parking on the lawn begins at 10 a.m., with Worship Service starting at 10:10 a.m. Face coverings required when usher comes to vehicle to pass out worship bulletin and other materials, and at the same time, collect any offering or gifts the individual(s) would like to give, or when leaving vehicles for the restroom. Church provides paper fans to stay cool. Bring water. Catch the live-streamed service at 10:10 a.m. and Praise Jam, which runs from 9:15 a.m. to 9:45 a.m. Service is emailed Sunday afternoon to anyone on the email list. Sign up by emailing at dwongyuen.

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The Ka'ū Calendar

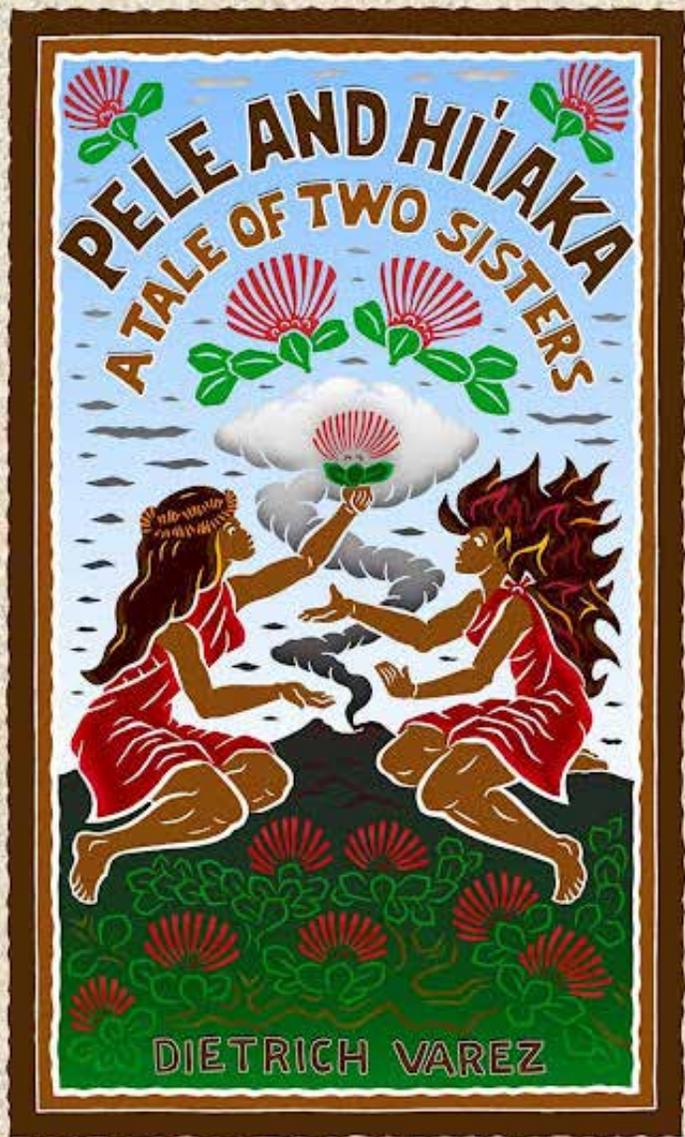
JANUARY

December Calendar, from pg. 8

kauahaachurch@gmail.com or call 928-8039 or 937-2155. Service is also online on facebook and on FM 98.1 radio.

ST. JUDE'S EPISCOPAL CHURCH IN OCEAN VIEW celebrates worship in person and online, sometimes exclusively online. Services begin at 9:30 a.m. on Sundays. Here is the zoom link:

<https://us02web.zoom.us/j/85798655114?pwd=QW5YSmQwNFYyVWZud3QvSVBiNXJ0Zz09>. Meeting ID: 857 9865 5114; Passcode: Aloha. The Sunday service is also broadcast on Facebook through the St. Jude's web page at <http://www.stjudeshawaii.org>. The hot showers and food events have been canceled until further notice.



Pele-honua-mea (Pele) and Hi'iaka-i-ka-poli-o-pele, and the natural phenomena they represent come alive through epic stories depicted in the natural landscape of Kahuku on a two-mile, 1.5 hour hike. *Image by Dietrich Varez.*

Kahuku: Farming, Hulihia & Kūlia

The Kahuku section of Hawai'i Volcanoes National Park offers presentations and hikes for January. Ranger Orientation Talks are Thursdays and Fridays at 10 a.m. at the Visitor Contact Station. The following Ranger Guided Hikes are scheduled for Saturdays and Sundays. Meet at the Visitor Contact Station.

The Ka'ū Field System: Farming the Rock: On Saturday, Jan. 8 at 9:30 a.m., walk along an old ranch road to the remnants of the field system at Kahuku. Learn how pre-western-contact Hawaiians intensively farmed this area and fed the large population of Kahuku. This is an easy 1/2 mile, one hour hike to kipuka kā'opapa and back.

Palm Trail: On Sunday, Jan. 9, at 9:30 a.m., hike a 2.6 mile loop along an old ranch road that leads to amazing volcanic features from the 1868 eruption. Discover relics of the ranching era and learn about hulihia (catastrophic change) and kūlia (restoration). Enjoy panoramic views of Kahuku and the Ka'ū coast. This is a 1.5 hour program

Nature & Culture: An Unsever-

able Relationship: (He Pilina Wehena 'Ole). On Saturday, Jan. 15 at 9:30 a.m., hike the Palm Trail and be inspired by a place where hulihia (catastrophic change) and kūlia (restoration) can be observed as the land transitions from the 1868 lava flow and its pioneer plants to deeper soil with more diverse and older flora. Learn about native plants and their significance in Hawaiian culture. This moderate hike is about two miles and takes two hours.

Realms and Divisions of Kahuku: On Jan. 16 at 9:30 a.m, discover the classification system, the realms, and the vertical and horizontal land divisions, that have been used in Hawai'i for centuries. Hawaiians made scientific observations of natural phenomena based on their astute powers of observation. This is a moderately difficult two-mile, 1.5-hour guided hike on Kamakapa'a Trail.

'Ōhi'a Lehua: On Saturday, Jan. 22 at 9:30 a.m., learn about the vital role of 'ōhi'a lehua in native Hawaiian forests, the many forms of the 'ōhi'a tree, and the threat of a new fungal dis-

Kahuku Hikes, pg. 11

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Ka'ū Community Invited to Help Plan for Waikapuna

A zoom community meeting on Waikapuna Resources Management Plan has been set for Wednesday, Jan. 25 from 6:30 p.m. to 8 p.m.. Waikapuna is 2,317 acres with miles of Ka'ū Coast, under a county conservation easement and held for stewardship by Ala Kahakai Trail Association.

The purpose of the meeting is to provide background on the process and schedule for the Management Plan for the land; to gather input on cultural and natural resources to preserve and protect; to understand areas of concern relating to the resources; and to identify opportunities for stewardship.

The property was purchased in 2019 with public funds to protect it from subdivision.

Log on to www.zoom.com. Meeting ID is 83744678872. passcode is Kau. For audio only, call 346-248-7700. Meeting ID is 83744679971. Passcode is 816026. The meeting will be recorded. For a link to the recording, contact Gabrielle Sham, Townscape, Inc. at gabrielle@townscape.com.

According to the website of Ala Kahakai **Endangered 'Alalā**, from pg. 1

Reserve has been managed for many years to promote native forests, is fenced and free of ungulates (cows, pigs, sheep, etc.), has a dense



The endangered bird Naio, *Anous minutus melanogenys*, nests in lava tubes and ledges along the cliffside of Waikapuna.

Photo from Ala Kahakai Trail Association

Trail Association, "Waikapuna encompasses the entirety of Kahilipalini and Kahilipaliiki Ahupua'a of Ka'ū Moku on Hawai'i Island. This purchase covers over 2.3 miles of the Ala Kahakai National Historic Trail - including what is traditionally known as the Ala Loa. An ancient fishing village of Waikapuna exists here and the acquisition of this wahi pana protects hundreds of intact pre-contact Native Hawaiian burial and non-burial cultural sites.

"Rich in Native Hawaiian and paniolo (Hawaiian cowboy) cultural heritage, the understory, and lots of 'Alalā food plants," according to The 'Alalā Project.

The 'Alalā Project is also working on reintroduction plans to release 'Alalā within Maui Nui.

Project goals are: "To establish a wild self-sustaining population of 'Alalā; that wild 'Alalā will fulfill their ecological roles in the native forest ecosystem; and the population will need little help from humans to survive."

The latest newsletter from The 'Alalā project notes that the organization is often asked how to "tell a male 'alalā from a female 'alalā by looking at them. It is very hard to tell them apart just by their appearance. Male 'alalā are usually slightly larger and heavier than the females but often you cannot tell this apart just by looking at the birds. In order to

Endangered 'Alalā, pg. 13

ancient fishing village of Waikapuna includes house sites, heiau, lava tube caves, and ancient trails. It is surrounded by large stands of native coastal vegetation, tidepool complex, and sea caves."

Waikapuna features "a segment of the Alaloa footpath, large strands of native coastal plant species, and sea cliffs that provide habitat to endangered birds; and provides access to important near-shore resources that many local families still rely on for subsistence. The property also supports ranching, perpetuating Ka'ū's paniolo heritage and contributing to the region's agricultural economy."

The stated purpose of the County of Hawai'i's conservation easement over Waikapuna is to: "conserve, preserve, and protect in perpetuity the historic, cultural, agricultural, natural, marine, scenic, open space, fresh water, and native and endemic plant and animal habitat values of the Easement Property."

Ala Kahakai Trail Association is re-

quired to establish a Land Management Plan, *Waikapuna*, pg. 13

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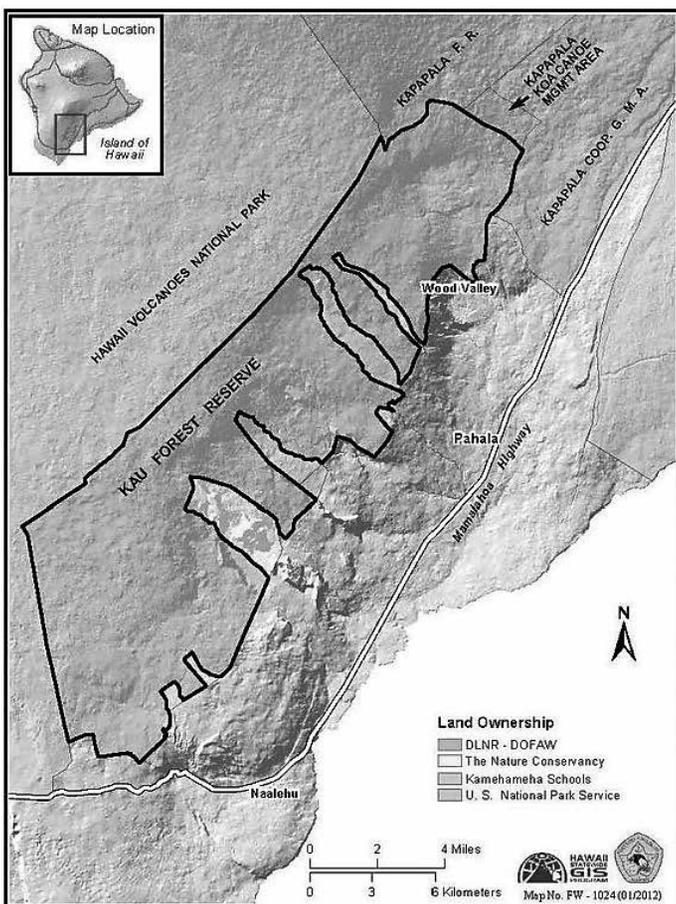
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Ka'ū Forest Reserve could be a future release site for endangered 'Alalā, the Hawaiian crow. Map from Dept. Land & Natural Resources

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Killing Any of the 40 Shark Species in Hawaiʻi is Illegal

Every kind of shark is off limits for killing in Hawaiian waters. The new law went into effect on Jan. 1. It is also illegal to knowingly entangle or capture sharks. House Bill 533 passed the Hawaiʻi Legislature during its last session. It protects the approximately 40 species of sharks living in Hawaiian waters. See them at <https://dlnr.hawaii.gov/sharks/hawaii-sharks/shark-identification-guide/>.

The new law also applies to charter fishing boats that include sharks in their takes. Accidental taking will require releasing the shark with as little harm as possible.

Brian Neilson, Administrator of the state Department of Land & Natural Resources Division of Aquatic Resources, said, "We are well aware of how important sharks are to maintain healthy marine ecosystems. We also recognize their importance in native Hawaiian cultural practices and beliefs."

The new law does not apply to: People with special activity permits issued by DLNR; shark fishing for public safety purposes as authorized or conducted by DLNR; sharks taken outside of state marine waters, with required documentation; sharks captured, entangled, or killed for self-defense or the defense of another; sharks captured or killed according to a permit issued by DLNR.

Neilson pointed out that DLNR still has "work to do before it's fully imple-



Charter fishing operations like Lahela have had to drop their shark fishing program and concentrate on marlin, ono and other species, as well as whale watching, since shark fishing became illegal Jan. 1.

Photo from Lahela

mented." According to the statute, DLNR may adopt administrative rules to implement the new law, including but not limited to: ensuring that the incidental capture and release of sharks while targeting other species is not a violation; preventing the wanton waste of sharks; and limiting gear, such as gill nets, in areas identified as shark nursery habitats. According to Act 51, the conditions of non-commercial permits for the take of sharks "shall include native Hawaiian cultural protocol, size and species restrictions, and a prohibition on species listed as endangered or threatened."

The DLNR recommended that "people avoid fishing in areas known to be

frequented by sharks, especially pupping areas, and use barbless circle hooks. If a shark is caught accidentally from a boat, avoid bringing it onto the vessel whenever possible. To release it, cut the line as safely as possible close to the shark's mouth.

Violation of the new law will be a misdemeanor, but carries significant penalties: \$500 for a first offense; \$2,000 for a second offense; \$10,000 for a third or subsequent offenses; a civil fine not exceeding \$10,000 per offense; an administrative fine of no more than \$10,000 for each shark captured or entangled,

whether alive or dead; seizure and forfeiture of any captured sharks or any part or product, commercial marine license, vessel, and fishing equipment; assessment of administrative fees and costs, and attorney's fees and costs. For information about sharks in Hawaiian waters, visit the DLNR shark website at hawaiiisharks.org.

Kahuku Hiking, from pg. 9

ease, Rapid 'Ōhi'a Death. Visitors will be able to identify the many differences of the most prominent native tree in Kahuku on this program, which is an easy, one-mile one-hour (or less), walk.

Hi'iaka & Pele: On Sunday, Jan. 23 at 9:30 a.m., discover two fascinating Hawaiian goddesses, sisters Pele-honua-meia (Pele) and Hi'iaka-i-ka-poli-o-pele, and the natural phenomena they represent. Visitors will experience the sisters coming alive through the epic stories depicted in the natural landscape of Kahuku on this moderate two-mile, 1.5 hour hike. Walk across the 1868 lava flow along an old ranch road, and down the old ranch airstrip.

People and Land of Kahuku: On Saturday, Jan 29 at 9:30 a.m., take a moderate two-mile, three-hour guided hike that loops through varied landscapes to explore the human history of Kahuku. Emerging native forests, pastures, lava fields, and other sites hold clues about ways people lived and worked on the vast Kahuku lands

– from the earliest Hawaiians, through generations of ranching families, to the current staff and volunteers of Hawai'i Volcanoes National Park. Learn about the powerful natural forces at work in Kahuku and how people have adapted to, shaped, and restored this land.

Birth of Kahuku: On Sunday, Jan. 30 at 9:30 a.m., explore the rich geologic history of Kahuku. Traverse the vast 1868 lava flow, see different volcanic formations, including the Southwest Rift Zone of Mauna Loa. Learn about the Kānāwai o Pele, the natural laws of land building that govern Pele's realm.

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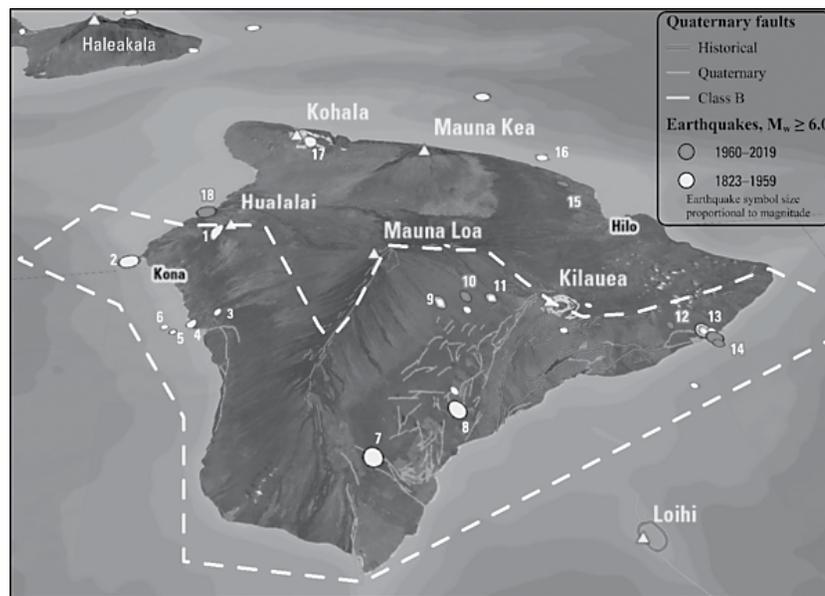
More than 90% Chance of Damaging Quakes Predicted

The chance is more than 90 percent that Ka'ū and this island will experience damaging ground shaking in the next century, according to the latest USGS model, released just before Christmas. The chance is also more than 90 percent for Maui, Kaho'olawe and part of Lana'i, and 75 percent to 90 percent for half of Lana'i and all of Moloka'i. The risk drops off to 25 percent to 75 percent for O'ahu and under 25 percent for Kaua'i.

The creators of the updated model note that "Hawai'i is a seismically active state, as indicated by the thousands of earthquakes recorded each year by the USGS Hawaiian Volcano Observatory. Damaging ground shaking has occurred over the decades, with two M6.7+ earthquakes in 2006 and 2018 and most recently a M5.2 earthquake on July 5, 2021, that was felt by more than 1300 people and a M6.2 earthquake on October 10, 2021, that was felt by more than 3500 people.

"Earthquakes are often associated with volcanic activity and, therefore, monitoring current volcanic activity (e.g., Kīlauea volcano has been erupting since September 29, 2021) is important as it

could lead to large earthquakes," says the report.



ID	Date	Mw												
1	Sept. 26, 1929	6.2	5	May 23, 1952	6	10	Nov. 16, 1983	6.7	13	Sept. 21, 1908	6.7	17	Sept. 30, 1881	6.4
2	Oct. 6, 1929	6.5	6	May 30, 1950	6.3	11	Sept. 24, 1880	6.6	14	Nov. 29, 1975	7.7	18	Nov. 18, 1941	6.1
3	Jan. 7, 1825	6.2	7	March 28, 1868	7	12	June 6, 1989	6.2	15	May 4, 2018	6.9			
3	March 11, 1841	6.1	8	April 3, 1868	7.9	13	June 2, 1823	7	15	April 26, 1973	6.2			
4	Aug. 21, 1951	6.9	9	Jan. 24, 1887	6.5	13	April 8, 1841	6.5	16	Jan. 13, 1885	6.1			

Earthquake sources on the Island of Hawai'i include (1) locations of shallow Quaternary faults (solid lines, white lines are the oldest, shaded lines are newer of faulting), (2) locations of places where deep faults (décollements) are known (dashed lines), and (3) locations of volcanoes (triangles). Large M>6 earthquakes with dates and magnitudes shown in table below figure. USGS image

The updated ground shaking model, published on-line in the journal *Earthquake Spectra*, shows a 90% chance that the 345,000 people on the islands of Hawai'i and Maui could experience damaging levels of shaking during the next 100 years. A lower but significant chance of damaging shaking is expected across O'ahu; within the southeastern portion of the island near Honolulu there is a greater than 50% chance of damaging shaking occurring during this period. Levels of shaking on the southernmost islands are comparable to shaking levels expected across portions of coastal California.

The HVO statement goes on to say, "the previous hazard model was developed over 20 years ago and since that time we have

experienced several large earthquakes, volcanic eruptions, and have collected deformation, soil, and strong motion data that can be used to improve this forecast," said Mark Petersen, USGS research geophysicist and lead author of the publication. "We collaborated with scientists and engineers across Hawai'i and the rest of the U.S. to build these models. The new seismic hazard maps can be used to update building codes and other planning documents which should improve seismic safety across Hawai'i."

The map and publication feature new earthquake catalogs, assessments of activity on active faults using geologic and geodetic (GPS) measurements, and evaluations of strong shaking data to define the ground shaking levels expected from earthquakes on the Hawaiian Islands.

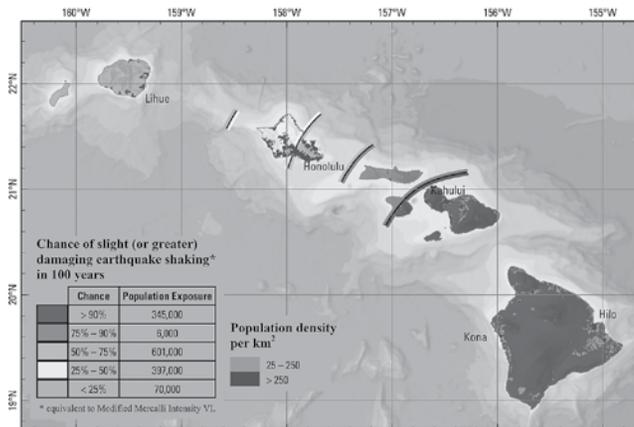
Ground shaking is forecasted to be highest near the active volcanos of Kīlauea and Mauna Loa in the southernmost portion of the Island of Hawai'i. Here magmatic activity pushes the crust outward toward the ocean along a nearly horizontal fault located about 6 miles (10 kilometers) beneath the surface. Large earthquakes occurred on this zone in 1868, 1975, 2018 and 2021. The 2018 earthquake was followed by a volcanic sequence that included numerous seismogenic collapses of Kīlauea volcano's summit crater floor. These provided data that helped define the shaking levels predicted by the model.

"Repeated collapses of the volcanic caldera may have also caused damaging ground shaking during the 2018 volcanic eruption, so a new model was developed

to evaluate this. "Repeated collapses of the volcanic caldera may have also caused damaging ground shaking during the 2018 volcanic eruption, so a new model was developed to evaluate this risk," said Petersen.

While earthquake activity remains high today, it seems to have decreased

Earthquakes, pg. 14



Chance of damaging earthquake shaking in the next 100 years, with areas of darkest shading the most likely. Population exposure estimates are rounded to the nearest 1000. USGS image

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Indoor Gatherings Limited to Ten, Vax Urged

The new limit for indoor gatherings in Hawai'i County is ten, as a result of the COVID surge. By the end of December the number of cases in Hawai'i County were rising quickly after the Christmas holidays and expected to rise again, in part, as the result of New Years gatherings. The limit for indoor gatherings is down to ten from 25.

Mayor Mitch Roth said, "The new variant is extremely transmissible and is spreading quickly. The science says that outdoor gatherings are much safer than indoors, and we would like to encourage all of our residents to adhere to the new limits.



We don't want to roll back any other restrictions, and the only way for us to ensure that we don't have to is by doing what's in the best interest of everyone in our community – mask up, distance when possible, and stay home if you feel sick."

The County of Hawai'i reminds residents of the importance of getting COVID shots and booster shots to combat the surge of COVID-19. Shots and boosters are free and are being administered islandwide at pop up events and regularly in Ka'ū at Bay Clinic, Ka'ū Hospital Rural Health Clinic and CVS/Longs in Pāhala.



KTA, Hawaiian Macadamia Give Free COVID Shots

Macadamia and coffee workers, keiki and more of the general public came to Hawaiian Macadamia headquarters in Pāhala in December for J&J, Pfizer and COVID vaccinations and boosters. Sponsored by KTA and Hawaiian Macadamia. Photo by Julia Neal

Endangered Alalā, from pg. 10

determine the birds' sexes at the conservation breeding center a simple blood test is done which looks at the bird's genetics. Each bird is given a color band combination to help keep track of the individual and to identify each bird."

In other news, The 'Alalā Project was represented Jan. 1 in the 133rd Rose Bowl Parade in Pasadena. The float was sponsored by San Diego Zoo Wildlife Alliance to highlight conservation work around the world with its partners. See a video on the float at <https://bit.ly/343bspd>.

Punalu'u Plans, from pg. 6

of modest incomes that exists in the area. "What you are advocating is the antithesis of what makes Ka'ū Ka'ū."

A couple of speakers referred to investing in Ka'ū lands as money laundering. One person said that all of the places around the state were paradises until "money laundering" led to buying up the properties. "Can we save one piece of the Big Island?"

One woman said it is the owner's responsibility at Punalu'u to achieve "preservation of a remarkable environment. It is your kuleana to provide a legacy of protec-

tion and education." She also said, "Let's set our intentions and keep Ka'ū country... I am for preservation, not destination."

Another said she worried about the lights from restaurants, accommodations and other facilities shining on the beach and disrupting turtle nesting. A man who said he worked with the Turtle Project that protects hawksbill turtle nesting asked how many people will be drawn to the area if the project is successful? He said he would have a problem with 200 to 300 additional people per day.

Punalu'u Plans, pg. 14

Waikapuna, from pg. 10

consistent with the conservation easement and also the state Legacy Land Conservation Program grant that helped to purchase the Waikapuna land. The County of Hawai'i hired Townscape Inc., an environmental community planning company, to work with the Ka'ū community to develop the Waikapuna Resource Management Plan to serve as a guide for future management and stewardship efforts.

See more at www.alakahakaitrail.org/waikapuna.

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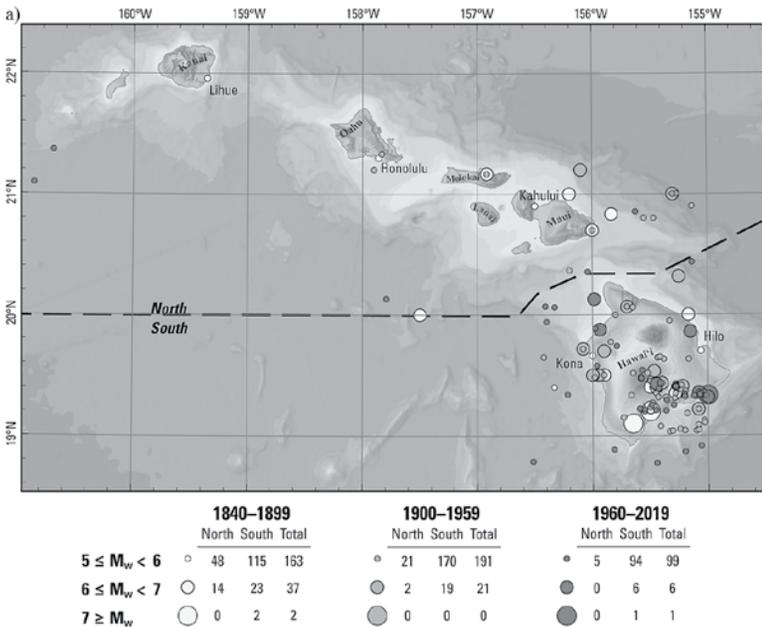
The Good News of Ka'ū, Hawai'i

January 2022

Earthquakes, from pg. 12

compared to the preceding century which could be related to less volcanic activity

with the expectation that earthquake activity could revert back to previous levels or continue at the current level.



Seismicity of Hawai'i: earthquakes M>5 from the 1840-1899, 1900-1959, 1960-2019 catalogs shown separately. While earthquake activity remains high, it seems to have decreased over the past 60 years, which could be related to less volcanic activity at Mauna Loa. Variations in earthquake activity are considered in the new models

at Mauna Loa. Variations in earthquake activity are considered in the new models



JANUARY EVENTS

Exhibit: Nani Moku (Beautiful Island) Glass by Marian Fieldson & Leslie Whited in Hawai'i
Volcanoes National Park
1/8 - Zentangle: Basics & Beyond with Lydia Meneses
1/9, 16, 23 - Make Your Own Glass Mosaic with Michael Reeder
1/15, 22, 29 - Stained Glass: Basics & Beyond with Claudia McCall
1/22--Mushroom Cultivation: Food from Wood with Zach Mermel
1/29 Mixed Media Encaustics with Mary Milelzeik



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Fore-casted shaking levels on the islands to the north-west of Maui are lower, and damaging earthquakes are less common since this region is farther from the magma source that currently lies beneath the Island of Hawai'i. Earthquakes in this region result from bending of the earth's crust due to the weight of overlying volcanos and from nearby oceanic fracture zones.

Despite less frequent earthquake activity and a lower chance of damaging shaking, earthquakes on the northern part of the Island of Hawai'i and on Maui, the islands of Lāna'i, Moloka'i, O'ahu, Kaua'i and Ni'ihau are still possible and can occur at depths that range from near the surface down to 25 miles (40 kilometers). A deep earthquake in 2006 occurred at a depth of about 18 miles (29 kilometers) and was strongly felt on the northern portion of the Island of Hawai'i and on Maui, causing extensive damage and losses. Other deep earthquakes occurred in 1938 near Maui, 1929 near Hualālai, and 1973 near Honomū. A large earthquake in 1871 near Lāna'i is thought to have ruptured an oceanic fracture zone, and a 1948 earthquake near O'ahu caused minor damage in Honolulu. These earthquakes signal the lower but significant risk to the northwestern portion of the Hawaiian island chain.

Volcano Awareness, from pg. 1

Zone eruption and summit collapse remain fresh on the minds of residents. These were the largest and most destructive events on Kīlauea in at least 200 years and will not soon be forgotten.

January was established as the Island of Hawai'i's annual Volcano Awareness Month in 2010 as part of an effort to increase understanding of Hawaiian volcanoes among residents and visitors. Important eruption anniversaries in January include the start of Kīlauea's long-lived Pu'u'ō'ō eruption on the middle East Rift Zone (1983-2018) and the 1960 Kapoho eruption. Until 2018, these were the two most destructive recent eruptions of Kīlauea.

Mauna Loa hasn't erupted in over 36 years, but it can never be forgotten because of the potential impact a future large eruption



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Punalu'u Plans, from pg. 13

A man said that lots of time was spent by the community on the Ka'ū Community Development Plan and suggested that the owners of the property adhere to it. "If you want to know the input of the people here, read the Ka'ū Community Development Plan."

A woman said there are no tall buildings in Ka'ū. "We like it that way. We are country people. Obviously, these people are not country people. There is something about this whole thing that makes me really nervous."

Another woman, who worked in many jobs at Punalu'u, said that people should learn the history of the place. She said mistakes were made by developers in the past, but that these could be corrected.

The final meeting, held in Pāhala, drew some longtime preservation advocates who endorsed the current owner of the property's involvement of the community.

Palikapu Deadman, of Pele Defense Fund, recalled fights against other projects

could have.

January also marks the anniversary of Mauna Loa's 1859 eruption that filled Kīholo Bay (on the Kona-Kohala Coast) and destroyed the village of Wainānāli'i south of the Waikoloa resorts. A similar eruption today could potentially close both the upper and lower highways in that area (Highways 19 and 190), severely disrupting the Island of Hawai'i's economy without destroying a single home.

Repeats of many past Mauna Loa eruptions would not only close roads but threaten communities as well. For example, lava flows crossed Highway 11 and entered the ocean between Miloli'i and Captain Cook a mere four hours after the 1950 eruption began. Today, houses have replaced ranchlands greatly complicating evacuation planning in this area.

USGS scientists encourage the public to remember that while Hualālai erupts much less frequently than Mauna Loa and Kīlauea, a repeat of the 1800-1801 lava flow that the Kona International Airport sits on would also be highly disruptive.

Past eruptions in Hawai'i should encourage us all to increase our volcano awareness, as similar events will occur again in the future. We hope that this year's Volcano Awareness Month happenings will help you achieve that. HVO, in cooperation with Hawai'i Volcanoes National Park, Hawai'i

in Ka'ū, including spaceports at South Point and makai of Pāhala, a prison up Wood Valley, and SpinLaunch, which planned to sling satellites into orbit from lands near Ocean View. He said that Ka'ū has been seen by outsiders as wide open for development since it is so sparsely populated.

Deadman recalled the early development at Punalu'u and he said when C. Brewer built the Sea Mountain resort, it "leveled Punalu'u in a week."

Since then, he said, all of the newer prospective developers failed to involve the local people, except Eva Liu, who owns 434 acres there, including most of the land adjacent to the coast.

Deadman said Liu and her team are the first developers who have interacted with the community. "I have never seen any developer who came in and talked to the people. You guys got to be happy that you have a developer or owner who cares about the place." He

Punalu'u Plans, pg. 15

County Civil Defense Agency, and the University of Hawai'i at Hilo, work together to promote the importance of understanding and respecting the volcanoes on which we live through this year's "virtual" Volcano Awareness Month.

Wonder how the eruption maps that HVO shares on the USGS website are generated? Or what can be learned from olivine—the small green mineral that's visible in many lava flows? What about how HVO is utilizing the supplemental funds that it received to support recovery efforts after the 2018 Kīlauea events?

A series of recorded talks by HVO staff will be posted on HVO website throughout the month of January to answer these questions and more. Talks will cover Kīlauea's volcanic year in review and Mauna Loa's sporadic restlessness and deformation. Other topics include a throwback to some of Kīlauea's most photogenic activity over the past decade, and a description of the Keanakāko'i Tephra, which represents Kīlauea's most recent explosive phase.

The HVO scientists wrote, "So while reminiscing about old acquaintances during your the New Year, take a moment to also reflect your relationship with the volcanoes in your backyard. We hope that residents and visitors alike learn something new and valuable about Hawai'i's active volcanoes and their eruptive activity during this coming Volcano Awareness Month. A calendar with descriptions of all Volcano Awareness Month 2022 programs is provided on HVO's website usgs.gov/hvo. Questions about Hawai'i's volcanoes or Volcano Awareness Month can be emailed to askHVO@usgs.gov.

Punalu'u Managers Urge Cautious Driving to Protect Nēnē

"There are a lot of nene this winter at Punalu'u and we are very concerned about their safety," said Black Sand Beach, LLC Project Director Norman Quon who is working on the development plan for the 434-acre property below Hwy 11. He said the Punalu'u management team asks the public to drive slowly on the roads through Punalu'u, especially along the road bordering the golf course between Hwy 11 and SeaMountain condominiums.

As many as ten nene have been seen

Punalu'u Plans, from pg. 14

said she is "one person, of all the developers, to ask how it should be."

Earl Louis, of Ka'u Preservation, who was involved in opposing the Sea Mountain V project, fronted by the son of Jacques Cousteau, said, "We need to be thankful for Eva. We need to work as one. We need to mālama Punalu'u... It's time to work as a community."

Pernell Hanoa, who has also supported preservation efforts, said it is very refreshing to see Liu "come out here and talk from her heart." He said the last developer "had a front man" without concern of cultural and environmental issues - "just make money."

Sophia Hanoa said Liu "get good heart" and that it is time to "mana up together." She urged Liu and her team to look to the kupuna for guidance. "We like keep everything how is, how was." She said the kupuna have been

recently on the property, said Quon. He vowed that the management team would work on signage and other nene safety protocol along the private road. "We are even considering perhaps building some of the stone walls higher along the golf course to help keep the nene off the road."

Several nene have been killed along the road in recent years. 'O Ka'u Kākou President Wayne Kawachi said OKK is involved in setting up speed bumps to slow the traffic and will fill some gaps in the

neglected and pointed to their knowledge that goes beyond what can be learned from books and college.

Olivia Ling told Liu's development planning team that "Whatever you do, you are going to be flushing toilets." She said she worried that "Eva cannot afford" to do all the projects proposed and will bring in other people who will not be as sensitive to the environment.

A woman who identified herself as Refana said she hopes Liu and her group are not "greenwashing." She urged the team to consider affordable housing, involving local businesses and going to schools to ask the young people about their dream for the future of Ka'u.

Evan Enriques said most of the plans put forth are geared toward commerce or tourism. He noted that over 150 units of accommodations are planned. He urged the team to

stone walls along the golf course where nēnē cross the road. He said OKK has reached out to Department of Land & Natural Resources wildlife biologist Raymond McGuire for guidance.



Punalu'u property managers are asking motorists to beware of nene, the Hawaiian goose and state bird, which has taken to crossing the roads.

Photo by Bob Martin

look into affordable housing and other community needs, such as those worked on by 'O Ka'u Kākou, like senior housing and a dialysis center.

Kamana Kapele said his tūtū man was from Makanau and that he wanted to make Liu aware of land issues, including his view that the U.S. illegally annexed the Hawaiian Islands. He said people coming here to buy land are "purchasing a fraud." He gave Liu a copy of a letter from Queen Lili'uokalani protesting the 1893 U.S. "invasion," along with other documents concerning the Hawaiian Kingdom movement.

George Leap said he is concerned that some of the condominiums planned will be three stories high. He said he is also concerned with too many tourists coming here and suggested making Punalu'u more geared to locals.

Thomas King of Honu'apo said he is also concerned about "greenwashing" and giving an appearance of sustainable practices. He asked if the development would seek LEED Certification from the U.S. Green Building Council. He also asked for creation

of a non-toxic work environment, unlike the sugar plantation, which required workers to be exposed to toxic chemicals, said King.

Angus Bruce Wright said he doesn't want Punalu'u to be a Kona Coast; Kihei, Maui; or Princeville, Kaua'i. "I love this land, its beauty, isolation, climate, and culture." He said he supports Liu's project "if we go slow and get input from the community." He called her "kind, giving and sincere."

Amy Thomas who works with hawksbill turtle preservation said she is concerned with lights from the resort interfering with their nesting. She urged the developers to move the restaurant away from the shoreline.

Sandra Reha said, "What I hear from people is that you are too close to the ocean." She suggested making the land around the Punalu'u pond a walking, natural and peaceful place. She also recommended not building anything along Ninole Loop near the Black Sand Beach.

The development team responded to community suggestions, saying that the plans were an early concept and that more community ideas are welcomed.

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Ōpelu Fisherman Chucky Leslie says ‘Let’s Talk Climate’

Let’s Talk Climate is The Nature Conservancy’s new short video to encourage people to discuss climate change. “Although the majority of Americans see the effects of climate change and worry about how it will impact their well-being, less than half talk about it with friends or family with any regularity,” says a TNC statement. “This video, created in collaboration with filmmaker Bryce Groark of Living Ocean Productions, aims to address this disparity.”

Polling TNC conducted in 2020 and 2021 showed that Hawai‘i voters want action on climate, value the Build Back Better bill for climate action, and care about natural climate solutions that can help mitigate climate impact.

Radio co-host Ka‘ea Lyons appears in the video, along with renowned ‘ōpelu fisherman Uncle Chucky Leslie from South Kona, and local farmers and community members from Hawai‘i Island for this hu-

morous take on climate change with a serious message. The video features music from artists Kimie Miner, Keali‘i Reichel, Kainani Kahaunaele and Shawn Pimental.

The video links to TNC’s webpage with resources such as a free how-to guide that can help people have connected conversations about climate change with five key tips: Meet people where they are; connection outweighs facts; start with what’s already happening; the goal is conversation, not conquest; and focus on the person across from you.

TNC reports that the guide is grounded in science, with research for these recommendations drawn from nearly two dozen sources on related topics. See the video at <https://www.youtube.com/watch?v=HbPPXmlktxQ>

The Nature Conservancy, with its Hawai‘i Island headquarters in Ka‘ū, is a global non-profit organization dedicated to

conserving the lands and waters on which all life depends. “Informed by science and guided by traditional values and practices, we apply innovative, nature-based solutions to our world’s toughest challenges so that nature and people can thrive,” says the statement.

Established in 1980, TNC’s Hawai‘i program has forged partnerships to manage 14 preserves and other sites across the Hawaiian Islands and has grown to include Palmyra Atoll. In Hawai‘i, TNC works with government agencies, private landowners, businesses, community partners and local stakeholders to protect and restore Hawai‘i’s native watershed forests, coral reefs and nearshore fisheries for their ecological value and the



Uncle Chucky Leslie, the renowned ‘ōpelu fisherman, is featured in the new short video *Let’s Talk Climate*, which can be seen at <https://www.youtube.com/watch?v=HbPPXmlktxQ>.

Photo by Deron Verbeck

many benefits they provide to people.

At Palmyra Atoll located 1,000 miles south of Hawai‘i, TNC conducts and facilitates research in this living laboratory to better understand and address global questions around sustainable fisheries and resilience to climate change. Visit nature.org/HawaiiPalmyra.

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