



February 2025

# THE BIG ISLAND HAMGRAM

The newsletter of the Big Island Amateur Radio Club

## Super Bowl preempts BIARC; regular meetings will be Feb. 15

Due to the Feb. 8 Super Bowl, BIARC's monthly meetings at Kamana Senior Center will be at noon (Executive Board) and 2 p.m. (membership) on Sunday, Feb. 15. BIARC Secretary Jim Tatar, WH6EMN, also reports Kamana coordinators need to do some room changes to accommodate class schedules.

"We will have our February directors and general meeting in room AB, which is next to where we are now," said Jim.

"In March we will need to meet in the small room next to the office and then move to AB after that for the general meeting.

"Starting in April we will be in room AB for all meetings and the meeting times will remain at 12 noon for the directors meeting and 2 p.m. for the general meeting."



Photo by Paul Ducasse, WH7BR

**NEW BIARC BOARD** — Following the first executive board meeting of the new year, the 2026 leadership team takes time out for a photo. From left: Jim Tatar, WH6EMN, secretary; David Miller, KH6CZ, vice president; Fred Fischer, WH6HAA, treasurer; directors Shawn Farley, WH6GXZ, and Bernie Walp, WB6PIO; William Polhemus, NH6ET, our FCC station trustee; and Thomas Avila, KH6GG, president.

## What's more important than grounding your QTH? Answer: Doing it the **RIGHT** way



Gary Miller, KH6GM, and Bob Schneider, AH6J, at South Point Amateur Radio Club Winter Field Day next to Whittington Beach Park in Ka'u on Jan. 24.

## A Winter Field Day like no other!

By Bob Schneider, AH6J

Winter Field Day (WFD, held on the last weekend in January) is an operating event similar to the ARRL Field Day held on the fourth weekend in June.

Rules are similar except the class "O" is reserved for "Outside" stations. We were reporting "30 PAC".

On the mainland cold weather can be a negative factor.

In Hawaii cold weather is not a problem even though our highest mountain, Ma-

na Kea, did have snow.

The South Point Amateur Radio Club, (aka, SPARC) is the southern most Amateur Radio Club in the United States. They sponsored the event setup and operation. Their base-camp was close to Whittington Beach Park. The nearest town is Naalehu.

It is a significant drive from just about any place on Hawaii Island aka "The Big Island." Hawaii Island has a total land area of about 4,000 square miles.

*Continued on next page*

At the January meeting, the membership was treated to a wide-ranging discussion on the latest developments within the "open source community" responsible for breakthroughs in technology and equipment.

Shawn Farley, WH6GXZ, focused on his efforts on behalf of the Hawaii Meshtastic network, and encouraged others to get involved.

Anyone with a Raspberry Pi can join in and help. MeshForge is a big part of the process.

President Thomas Avila focused on the world of Linux and the experimenting and fun he's having in that arena.

William Polhemus, NH6ET, gave a hana hou presentation of his popular talk on "Grounding, Part 1."

With interaction from some of the members present, William went step-by-step through this complex and vital subject area, repeatedly stressing his personal mantra:

"Don't meet code; exceed code."

### Down to Earth!

Information about grounding your amateur radio station, from the ground up.



Presented by:  
William Polhemus – BIARC

### Why should you ground your station?

1. Safety.
  - Grounding and bonding protects you, your family, your home, and your equipment.
2. Performance.
  - Grounding and bonding can reduce noise, reduce spurious emissions, prevent many types of equipment malfunction, and even increase receiver performance.

Remember



Electricity will kill you!

# A Winter Field Day like no other!

## From previous page

At 10:30 AM HST Gary Miller, KH6GM, called and asked if I wanted to go to Field Day if he drove. I said yes and he agreed to pick me up at Noon. He was driving his Tesla, an electric truck with a stainless steel body and Full Self Driving if selected. It is very nice!

Meanwhile, Kilauea Volcano had been building pressure toward its "Episode 41" eruption cycle. Hawaii Volcanoes National Park (HVNP) is about 30 miles south of Hilo. Gary's home is about 20 miles north of Hilo and I am located in Keaua, 7 miles south of Hilo.

The volcano started its vigorous fountain eruption at 11:10 AM and by 11:30 AM the lava fountains were somewhere around 1,600 feet, (500 meters) but there was almost no wind.

Gary arrived in Keaua at 12 noon and drove south. As we arrived at the village of Volcano, a little after 12:30, they closed the road (HWY 11) behind us and we were committed to continuing south.

We decided to drive into HVNP to get pictures and see the eruption. It was very crowded and "Tephra" (rocks) were falling from the sky and hitting us.

Shortly after we got into the Park, they actually closed it due to the large quantities of Tephra and ash falling near the eruption.

The rangers opened the rear gate and allowed us to exit directly on HWY 11, but we could only turn south. Because there was little wind the rocks fell straight back down, eventually covering the surrounding area.

Tephra is light and the fallout area was several miles around the volcano. There was also a lot of "Pele's Hair", (strands of glass like lava).

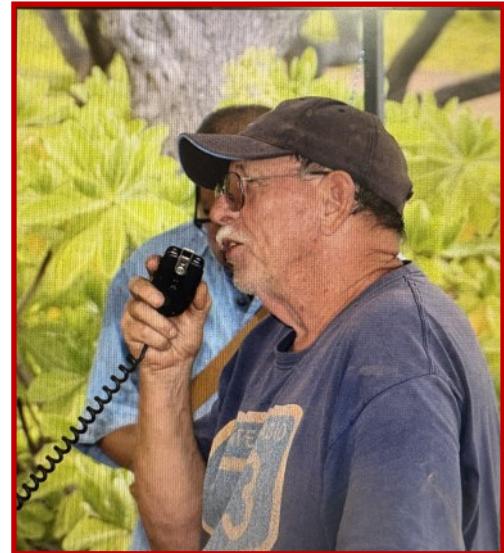
We "finally" arrived at the gate entrance to the WFD site only to discover police cars, fire trucks and emergency vehicles. It turns out they were looking for a lost spear fisherman. (Unfortunately, later that evening they did find his body.)

Earlier that morning the Hawaii County Civil Defense (HCCD) director, Talmadge Magno, visited the site to see the activities. During FD that visit means extra points.

Radio propagation conditions were great on 10M from the start. Contacts were made on 10M, 15M, 20M and 40M. The crew did a won-



Tephra that fell from the eruption.



Rick Ward, WH6FC, SPARC president.

Photos by Gary Miller, KH6GM, Bob Schneider, AH6J, and USGS at HVNP



The third member of the intrepid team from the East Side, KH6GM's stainless steel, electric Tesla truck.



Lava fountain and lava pool

# A Winter Field Day like no other!



*Fallout from the eruption covers ground at entrance to Hawaii Volcanoes National Park.*

## *From previous page*

derful job of setting everything up and were "on the air" by 8:00 A.M.

WF1A, Vojin Oklogzija, operated the CW tent and the main area had SSB and the food. They operated "3O PAC" even though the third transmitter was not very active.

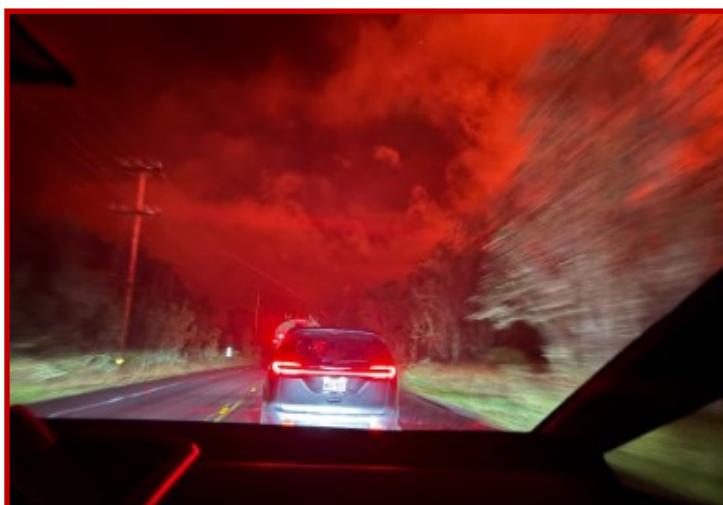
They used Rick Ward's call WH6FC. Rick reported they made 2620 points or 42% of their goal operating for only half the contest. Operations were stopped at 8:00 P.M. And all the participants left the area by 11:30 P.M. Because we are in Hawaii, many of the phone contacts ended with "Aloha" as the final sign off.

As for Gary and me, later in the afternoon we got a message from HCCD that Highway 11 would be reopened about 6 PM. We ended up following the road cleaning (sweeping and washing) trucks part of the way back.

Fortunately, the Tesla was able to self-drive us most of the 160-mile round trip through the Tephra falling and in the wake of the road washing trucks, making the experience more relaxing for us to catch up on our event-filled day.

It was a Field Day we will never forget!

## On the way home ...



*Crews on tanker trucks wash debris from roads.*



*View of the lava fountains estimated at 1,600 feet (as shown on local TV news).*



*Jeremy Punsalan, KH7CN, has won the World Wide Award All Bands Mixed-Hawaii-Bronze hunter award.*

## BIARC Minutes of General Meeting 1/10/2026

General Membership Meeting convened at 2:09 PM

Directors Present: Thomas Avila, President; David Miller, Vice President; Fred Fischer, Treasurer; James Tatar, Secretary, Trustee William Polhemus; Shawn Farley, Director; Bernie Walp Director.

The new board was introduced to the members, and the positions of the various directors announced:

Thomas Avila: President  
David Miller: Vice President  
Fred Fischer: Treasurer  
James Tatar: Secretary  
William Polhemus: Trustee  
Shawn Farley: Director  
Bernie Walp: Director

Members introduced themselves. A discussion and comprehensive information on Grounding was given by William Polhemus. We have 2 members who are now silent key, Glenn and Marvin. Meeting adjourned.

*James Tatar, secretary*

## Operate W1AW/KH6 in mid March

ARRL is granting each state two runs at being W1AW.

In our case: W1AW/KH6.

This is to help activate all 50 states for the special WAS250 certificate.

<https://www.arrl.org/america250-was>

This has already begun with New York and Nebraska leading off during the first week of this year as W1AW/2 and W1AW/0. Each week starts Wednesday at 0000Z and ends the next Wednesday.

See the whole list here:

<https://tinyurl.com/4vzbmn4c>

Our weeks for activating W1AW/KH6 are March 18-24 and Aug 19-25.

For Guam, the weeks are March 11-17 and Dec 9-15.

This is a fun event and is open to all hams regardless of license level.

However, be sure to stay within your FCC frequency and mode allocations for your license. It can be on any non-WARC band and any mode (CW, Phone, Digital).

We need your help to get W1AW/KH6 active as much as possible on all modes during our two weeks.

First up is March 18-24. I have set up an operating schedule with two-hour shifts. You can see the spreadsheet here: <https://tinyurl.com/3urw3pm9>

To sign up, you need to contact your island coordinator or me.

Kauai: Bill, W2DK email: secretary at [kauai-arc.org](mailto:kauai-arc.org)

Oahu: Kimo, KH7U email: [kimochun@gmail.com](mailto:kimochun@gmail.com)

Maui: Alan AD6E email: [ad6e@arrl.net](mailto:ad6e@arrl.net)  
Hawaii: Lloyd KH6LC email: [kh6lc@hotmail.com](mailto:kh6lc@hotmail.com)

Guam: Tim KH2XX email: [eodkaboom@hotmail.com](mailto:eodkaboom@hotmail.com)

Send an email to your coordinator requesting a specific date, time, band, and mode. They will add you to the operating schedule. You operate W1AW/KH6 mid March, and may request as many operating slots as you want.

Please read the operating guidelines.  
[https://drive.google.com/file/d/1X\\_CVDbkGfu19yVdeGHoeueubapnEpGikJ/view?usp=sharing](https://drive.google.com/file/d/1X_CVDbkGfu19yVdeGHoeueubapnEpGikJ/view?usp=sharing)

You need to log all contacts with a computer that can provide a log in ADIF and send it to me after the event.

Bottom line: Have fun!

Aloha, Alan AD6E / KH6TU

Please contact me with questions at [ad6e@arrl.net](mailto:ad6e@arrl.net) and NOT [arrl.org](mailto:arrl.org)  
ARRL Pacific Section  
Section Manager: Alan P Maenchen, AD6E  
[ad6e@arrl.org](mailto:ad6e@arrl.org)

## Youth on the Air Camp general app

Young amateur radio operators across the Americas are encouraged to apply for the sixth Youth on the Air Camp at [YouthOnTheAir.org](https://YouthOnTheAir.org). The camp is scheduled to take place June 14 - 19, 2026, in Huntsville, Alabama, and will have a "space" theme. In addition to meeting other young hams, campers will participate in a variety of radio activities including kit builds, contesting, and satellite operating. Licensed amateur radio operators ages 15 – 25 can apply. A priority application period is open now, ending on January 15, with spaces being held for youth from various areas of North, Central, and South America. General applications will continue to be accepted until May 1. Up to 50 campers will be accepted. The [Huntsville Amateur Radio Club](https://HuntsvilleAmateurRadioClub.org), an ARRL Affiliated Club, is the local host for the 2026 camp. For additional information, please contact Camp Director Neil Rapp, WB9VPG, at [director@youthontheair.org](mailto:director@youthontheair.org).



# The Hawaii County Siren Report for February 2026

From Darrell Asuka, KH6RDO, for the Big Island ARES Group

## Notes:

*Enclosed is the February siren report. We had several new locations being reported. Allstar system was partially out along Hamakua today.*

**KH6RDO,**  
02/02/2026

Location	Observer	Mode	Status	Notes
NOT WORKING				
HA112 Kolekole	KH6RDO	Allstar	Not Working	
HA802 Honoapu	WH6HC	DMR	Not Working	
HA806 HOVE Shopping Center #2	WH6EIX	DMR	Not Working	car accident
HA910 Ainaloa	WH6HAF	Allstar	Not Working	

PARTIALLY WORKING

NOTHING HEARD

HA807 Waiohinu Park Naalehu	KH6HA	DMR	Nothing Heard
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WORKING

HA101 Leleiwi	KI6HBZ	Email	Working
HA104 Banyan Dr	KH6ATU	Text	Working
HA107 Federal Building Downtown	NOCAN	Mauna Kea	Working
HA111 Honomu	KH6RDO	Allstar	Working
HA113 Hakalau	KH6RDO	Allstar	Working
HA114 Carvalho Park	NH6WT	DMR	Working
HA115 Paukaa	AH6JA	Email	Working
HA116 State Building	NOCAN	Mauna Kea	Working
HA120 Mohouli Park	NOCAN	Mauna Kea	Working
HA123 Waikaumalo Park Ninole	WH6FIQ	Allstar	Working
HA202 Laupheohoe Point	WH6FSI	Allstar	Working
HA301 Paauilo	AH6JA	Email	Working





# BIARC

## Education & Outreach Committee Report – February 4, 2026

### Activity

Jan. 1 – Siren Test Net participation.

Jan. 11 – BIARC Exec and Member meetings.



WH6EMN, KH6CZ  
and WH6HAA at  
Kaumana  
Elementary  
Science Night on  
Feb. 4.

Jan. 24 – The Pacific International Space Center for Exploration Systems (PISCES), the Canada-France-Hawaii Telescope, and the Hawai'i Science and Technology Museum hosted BIARC participation in the Astronaut Ellison Onizuka Science Day at UHH. Leigh (WH6LC) was off site handling RF communications with the students while Fred (WH6HAA), Jim (WH6EMN), Luke (WH6GRW), and David (KH6CZ) were on site at the campus and on the air. An informative and enjoyable event.

Jan. 28 – Participation - VOAD Zoom meeting - Communications Working Group.

### Scheduled

Feb. 4 - Kaumana Elementary School Science Night 5:00-6:30 PM.

Feb. 15 – BIARC Exec and Member meetings.

### Planned

1. Hilo Union Elementary - Wednesday, March 4 5:00-7:00 PM
2. Hilo Intermediate - Thursday, April 16 5:00-6:30 PM
3. Keonepoko Elementary - Wednesday, May 13 4:30-6:00 PM

- Further educational elements re ham radio via Video Presentation
- Further refine the Photo Release for Minors at BIARC E&OC supported events.
- Continue to work with the Museum of Science and Technology agenda (see above) through 2026 and solicit participation at Emergency Prep and Readiness events in Puna.
- Integrate the BIARC PC material and enrich EOC presentations.

### BIARC E&OC Committee

Leigh Critchlow WH6LC, Fred Fischer WH6HAA, Jim Tatar WH6EMN, Mark Watanabe WH6FSA, Les Hittner K0BAD. Thanks to all members.

David Miller - BIARC Education and Outreach Committee

## ARRL Awards Colvin Grant to Bouvet DXpedition

ARRL has awarded a \$5,000 Colvin Award grant to the Delta-Xray Group, organizers of the upcoming [3YØK DXpedition to Bouvet Island](#), scheduled for February and March, 2026. Bouvet is a remote island in the Southern Ocean, populated only by seals and penguins, and known for treacherous weather and surf conditions. It is a territory of Norway and nearly all of it is covered by glaciers. The most recent amateur radio operation from Bouvet was the [3YØK DXpedition](#) in 2023, which moved the island from #2 on the Club Log most wanted list to #10.

Two camps are planned, according to team leaders, operating all HF bands, with one camp focusing on high band propagation to North America when conditions allow. Each camp will consist of three tents serving as operating, sleeping, and communal spaces. These tents have previously been used on Bouvet Island and team leaders say they have proven capable of withstanding the extreme conditions expected.

Plans call for the team to leave for Bouvet from Cape Town, South Africa, on February 1. Weather permitting, 3YØK plans to use helicopter airlifts to transport personnel and equipment between the vessel and the island. The group expects to spend three weeks on and around the island and will attempt to contact as many other ham radio operators around the world as they can, using up to 8 stations operating on CW, SSB, FT8, RTTY and the QO-100 geostationary satellite.



Most of Bouvet Island is covered by glaciers and there are very few hospitable landing spots. Plans call for 3YØK operators and equipment to be taken ashore by helicopter. [Photo courtesy of 3YØK DXpedition group]

The 3YØK DXpedition is perhaps the most expensive ham radio expedition ever mounted, with a budget of \$1.7 million, most of which (\$1.2 million) is for what the team refers to as a “reliable commercial Arctic / Antarctic vessel,” noting that “(s)afe and reliable ship transportation continues to be a challenge for such remote island expeditions, and the cost continues to rise.” Team leaders note that “the foremost priority of the 3YØK expedition is the safety of the operating team, support personnel, and the vessel and helicopter crews.”

## QST, QST: Bouvet Island calling

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The team consists of 24 operators from 14 countries. Two of the team members are young hams, 21-year-old Max Freedman, N4ML, an ARRL staff member; and 26-year-old Alex Schengber, DL2ALY, an aviation engineer currently working at a German research station in Antarctica.

The Colvin Award is funded by an endowment established by the legendary DX couple Lloyd Colvin, W6KG (SK), and Iris Colvin, W6QL (SK), both now deceased. The award is intended to support amateur radio projects that promote international goodwill in the field of DX.

Other major financial support for the DXpedition has come from the Northern California DX Foundation, the International DX Association, and the German DX Foundation.

The complete 3YØK log will be uploaded to ARRL's [Logbook of The World](#)® — LoTW® — within 12 months following the DXpedition. LoTW is used by radio amateurs to track their progress toward awards including ARRL's [DXCC Award](#) — the DX Century Club Award — which is achieved by confirming on the air contacts with 100 geographic entities.

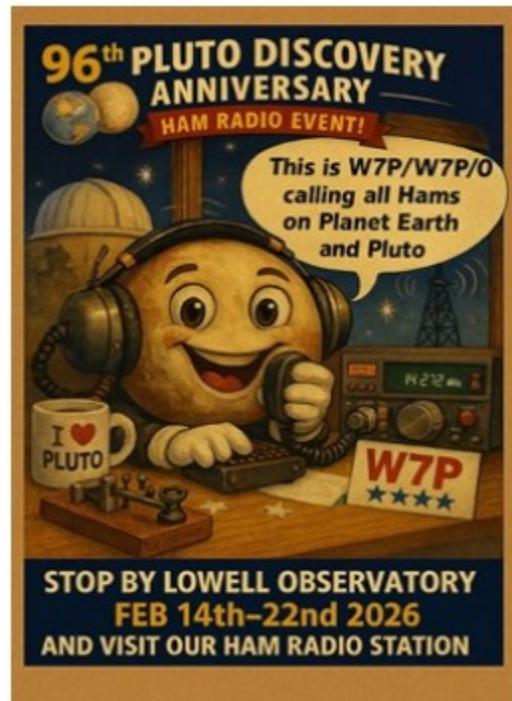
“We extend our sincere thanks to all equipment sponsors and financial supporters, and particularly the ARRL Colvin Award grant. Without this collective support, activating Bouvet Island and delivering an ATNO (All-Time New One) from the #10 Club Log DXCC most wanted entity would not be possible.” The team continues to seek financial support from the amateur radio community.

For more information, visit [3y0k.com](#).

## Announcements

The Northern Arizona DX Association (NADXA) has announced the dates for 6th annual Pluto Discovery Anniversary special event, February 14 - 22, 2026.

Using the call sign W7P, operations will be based at Lowell Observatory in Flagstaff, Arizona, set up in front of the new Marley Astronomy Discovery Center. Stations will be active daily, as time and band conditions permit. This event commemorates the discovery of Pluto by Clyde Tombaugh at the Lowell Observatory in 1930. Operations will take place in a communications trailer with upgraded equipment. An ARRL grant was used to heat the trailer and it can now run on solar power with 100-amp hour batteries. With over 100 inches of snowfall each year, NADXA members will also be operating from their home stations and from out-of-state locations to keep the event on the air. Tombaugh's nephew, Doug Tombaugh, N3PDT, and his team will be operating as W7P/Ø. Suggested frequencies are 14.266, 21.366, 28.366, and 7.266 MHz. A certificate and QSL card will be available.



### ARRL to host 9th annual Ham Radio Science Citizen Investigation Workshop

ARRL will host the 9th annual Ham Radio Science Citizen Investigation (HamSCI) Workshop on March 14 – 15, 2026, with primary activities held at Central Connecticut State University (CCSU) in New Britain, Connecticut, and additional events at ARRL Headquarters in Newington. The international workshop brings together radio amateurs, scientists, educators, and students to explore how amateur radio serves as a practical tool for scientific research and citizen science.

Organized by the HamSCI community, the 2026 workshop carries the theme "Discovering Science Through Ham Radio." Presentations and discussions will highlight real-world research enabled by amateur radio, including ionospheric and space weather studies, meteor scatter propagation, radio-based sensing technologies, and the growing use of Personal Space Weather Stations. The program emphasizes how these efforts not only advance scientific understanding, but also directly inform and improve amateur radio operating and technology.



Attendees at HamSCI 2025 hosted at the New Jersey Institute of Technology. [Bob Inderbitzen, NQ1R, photo]

# STATE-WIDE MESHTASTIC LISTING AS OF FEBRUARY 5

COMPILED BY KH6RDO, continues on next several pages

Dewey_nhm	Ahihawa Kai Ius-Kona	Hawaii	heltec-wireless-tracker
Meshtastic cc7	Ahihawa K-I	Hawaii	t-rader-t3000-e
Meshtastic 12a8	Ahihawa	Hawaii	rak4631
Meshtastic 603	Ahihawa	Hawaii	rak4631
WH6HVA-NV	Ahihawa	Hawaii	t-rader-t3000-e
HBMC1	Amaulu	Hawaii	station-g2
BROVO 1	East Volcano	Hawaii	t-rader-t3000-e
Coral_Hale	East Volcano	Hawaii	rak4631
Farley_Server	East Volcano	Hawaii	station-g2
FohSolar_Base	East Volcano	Hawaii	rak4631
Foh-EUV	East Volcano	Hawaii	rak4631
GY2_001	East Volcano	Hawaii	heltec-v3
Hitchiker	East Volcano	Hawaii	t-rader-1000-e
hitchiker_rf_udp	East Volcano	Hawaii	heltec-v3
hitchiker_AL	East Volcano	Hawaii	heltec-v3
hitchiker_udp	East Volcano	Hawaii	portduino
WH6G Node 2	East Volcano	Hawaii	heltec-vision-master-t190
LM-Base	East Volcano	Hawaii	station-g2
LM Experimental	East Volcano	Hawaii	portduino
LM Meshtastic	East Volcano	Hawaii	heltec-v3
luke-coded	East Volcano	Hawaii	rano_g2_ultra
MLL_Ret5o60	East Volcano	Hawaii	heltec-v3
MLL_Ret5o60	East Volcano	Hawaii	heltec-v3
NurseDudeAlphaR2	East Volcano	Hawaii	heltec-mesh-mod-t114
NurseDudeDeck	East Volcano	Hawaii	t-deck
nurse_dude_v4_3th	East Volcano	Hawaii	heltec-v4
NurseDude_Vision	East Volcano	Hawaii	heltec-vision-master-t190
WI_ECCD	East Volcano	Hawaii	t-rader-t3000-e
wh6goz_meshtastic	East Volcano	Hawaii	portduino
WH6GOZ_Mhi_Mesh	East Volcano	Hawaii	portduino
wh6goz-tdp	East Volcano	Hawaii	portduino
WH6GX2-Fox	East Volcano	Hawaii	portduino
JT_Mobile_Mesh	East Volcano	Hawaii	t-rader-t3000-e
Meshtastic_92ac	East Volcano	Hawaii	heltec-v3
pid-30th-whha	East Volcano	Hawaii	portduino
Uni_mixed_Lua	East Volcano	Hawaii	portduino
solar_monolith_eta	East Volcano	Hawaii	portduino
Mesh_3F54	East Volcano	Hawaii	portduino
Kohala BC46	Hauula	Hawaii	rak4631
Kohala BC46	Hawai	Hawaii	rak4631
Meshtastic_70c4	Hau'ula Ocean View	Hawaii	portduino
BK72	Hillside-Sunrise Sub	Hawaii	tora-v2-1-1p6
F2PB1	Hillside-Sunrise Sub	Hawaii	tora-v2-1-1p6
GIX5	Hillside-Sunrise Sub	Hawaii	tora-v2-1-1p6
GIX4	Hillside-Sunrise Sub	Hawaii	t-deck
GIX-BT2	Hillside-Sunrise Sub	Hawaii	tora-v2-1-1p6
HI_Mesh_>_uicei - Waiakea CERT Team 2	Hillside-Sunrise Sub	Hawaii	heltec-v3
WH6GX	Hillside-Sunrise Sub	Hawaii	tora-v2-1-1p6
Demo1	Hilo	Hawaii	station-g2
Ghostline 2	Hilo	Hawaii	heltec-v3
HI Mesh Project - Waiakea CERT Team 1	Hilo	Hawaii	heltec-v3
HIJ_HiMesh Project - Waiakea CERT 4	Hilo	Hawaii	heltec-v3
HIJ_HiMesh Project - Waiakea CERT 5	Hilo	Hawaii	heltec-v3
hijj_hmESh Project-Waiakea CERT 3	Hilo	Hawaii	heltec-v3
hijj_hmESh Project-Waiakea CERT 6	Hilo	Hawaii	heltec-v3
keychain_iblack_M	Hilo	Hawaii	rak4631
KH6GG Pager	Hilo	Hawaii	t-lora-pager
KH6RDO Hilo	Hilo	Hawaii	rak4631
Meshed Potatoes	Hilo	Hawaii	station-g2
Meshtastic 1210	Hilo	Hawaii	rak4631
Meshtastic 3151	Hilo	Hawaii	t-echo
Meshtastic 4474	Hilo	Hawaii	portduino
Meshtastic 8d30	Hilo	Hawaii	station-g2
Meshtastic 8df	Hilo	Hawaii	t-rader-1000-e
Meshtastic e048	Hilo	Hawaii	heltec-v3
Naboa 1	Hilo	Hawaii	heltec-v3
PHTO	Hilo	Hawaii	rak4631
PM_T1000_d7e0 (mobile)	Hilo	Hawaii	t-rader-t1000-e
Potala MV	Hilo	Hawaii	rak4631
Wh6EMN-B	Hilo	Hawaii	station-g2
WH6EMN-Demo-M3	Hilo	Hawaii	t-rader-t1000-e
WH6EMN-M1	Hilo	Hawaii	t-rader-t1000-e
WH6EMN-M2	Hilo	Hawaii	nano-g2-ultra
WH6GSA-M	Hilo	Hawaii	t-rader-t1000-e
WH6GZ	Hilo	Hawaii	station-g2
WH6HEO_2680	Hilo	Hawaii	heltec-v3
WH6HEO_BB30	Hilo	Hawaii	heltec-v3
WH6HEO_Xiaolin	Hilo	Hawaii	seeded-xiao-s3
KD2HWH_b394	Hilton Waikoloa	Hawaii	t-beam
Meshtastic fec4	Holualoa Kona	Hawaii	t-beam
Honokaa Hospital M1	Honokaa	Hawaii	t-rader-t1000-e
Noah-Honokaa	Honokaa	Hawaii	station-g2
Solar Pad alpha	Honokaa	Hawaii	rak4631
FIRETOG	Honokahau	Hawaii	t-deck
AH6DL 6DL1	Honomu	Hawaii	rak4631
AH6DL Honomu T	Honomu	Hawaii	Uligo t-beam S3 core
AH6DL room a05e	Honomu	Hawaii	t-echo
HOV2_c318	HOVE	Hawaii	heltec-v3
KH7MS-Home	HOVE	Hawaii	heltec-v3
KH7MS-M2	HOVE	Hawaii	heltec-v3
WH6FC_Mesh_dcc6	HOVE	Hawaii	t-echo
Kaloli-6CZ	HPP	Hawaii	rak4631
ND0B in HPP	HPP	Hawaii	heltec-v3
Trust Science Not Morons	HPP	Hawaii	heltec-v3

<b>Meshtastic</b>	
<b>International</b>	Based on LoRa, Bluetooth, standard Wi-Fi
<b>Compatible hardware</b>	Supports ESP32, nRF52840 and others
<b>Physical range</b>	Typically 2–5 km (1.2–3.1 mi), upwards of 100 km (62 mi) possible via mesh
<b>Website</b>	<a href="http://meshtastic.org">meshtastic.org</a>



Meshtastic 07e4	Hualalai 4 Seasons	Hawaii	rak4631
solar kilo	Hualalai 4 Seasons	Hawaii	rak4631
Patches	Hualalai Villas	Hawaii	tracker-t1000-e
Meshtastic 4dd4	Kahului	Hawaii	heltec-mesh-node-t114
Elab Pi Waveshare A021	Kailua-Kona	Hawaii	rak4631
K7B8S KOA	Kailua-Kona	Hawaii	heltec-v3
Makalei nh6m	Kailua-Kona	Hawaii	heltec-v3
solar-huehue 7593	Kailua-Kona	Hawaii	rak4631
WH7Q_Kailua Kona	Kailua-Kona	Hawaii	station-g2
Ahihawa NH6M	Kalalua	Hawaii	heltec-v3
Dewey 1490	Kalalua	Hawaii	portduino
Kaloko	Kaloko	Hawaii	rak4631
Meshtastic 0b20	Kaloko	Hawaii	t-echo
Meshtastic 6cd	Kalopa Mauka	Hawaii	portduino
Pi3-30db Kawaihiae Bff0	Kawaihiae	Hawaii	heltec-v3
Solar Sierra	Kawaihiae	Hawaii	tracker-t1000-e
Kelan's Phone	Kawaihiae Rd	Hawaii	heltec-wireless-tracker
KH_7b78	Kawaihiae Rd	Hawaii	heltec-wireless-tracker
Heltec mesh node T114	Kawaihiae Rd Waimaea	Hawaii	heltec-v3
Kika1	Kawaihiae Rd Waimaea	Hawaii	tracker-t1000-e
Little Brother	Kawaihiae Rd Waimaea	Hawaii	heltec-v3
Mesh HPP c918	Kesau	Hawaii	heltec-v3
Mesh HPP c940	Kesau	Hawaii	heltec-v3
Meshtastic ee30	Kesau	Hawaii	tora-v2-1-p6
ChrisH2T v6	Keahole	Hawaii	heltec_mesh_node_t114
Gibby	Keahole	Hawaii	tracker-t1000-e
KBSLNC-2 Bi-Mobile when I go	Keahole	Hawaii	ilogo-tbeam-s3-core
X SKL262	Keahole	Hawaii	xiao-nrf2-kit
Keahole pt	Keahole Airport	Hawaii	rak4631
CB202	Keauhou Kona	Hawaii	heltec-v3
NICMB	Keauhou Kona	Hawaii	heltec-mesh-node-t114
Meshtastic c78b	Keauhaha	Hawaii	tracker-t1000-e
kilohana east e873	Kilohana	Hawaii	heltec-v3
Kilohana solar West	Kilohana	Hawaii	rak4631
Kilohana solar 6w-3k 6c8e	Kilohana Scout	Hawaii	rak4631
hanapeo mana ac9f	Kilohana Scout area	Hawaii	rak4631
HC_Jumper	Kilohana Scout area	Hawaii	heltec-v3
Meshtastic a2e9	Kilohana Scout area	Hawaii	rak4631
Meshtastic C558	Kilohana Scout area	Hawaii	heltec-v3
Kohala Hoes Rd 3	Kohala	Hawaii	heltec-v3
Kohala Hoes Rd 55-358-1	Kohala	Hawaii	heltec-v3
Kohala Hoes Rd 55-358-2	Kohala	Hawaii	heltec-v3
Hawl 570f	Kohala Mtn Rd	Hawaii	rak4631
Kalopi Bad1	Kohala Mtn Rd	Hawaii	rak4631
Kalopi repeater	Kohala Mtn Rd	Hawaii	heltec-v3
Station G2 Control	Kohala Mtn Rd	Hawaii	station-g2
6IA seeded Hilo	Komohana	Hawaii	tracker-t1000-e
55 RANGER MAGNUM	Kona	Hawaii	t-deck
Acti+B3+B17on Potential	Kona Village	Hawaii	t-echo
Mobile1	Kukila Hilo	Hawaii	heltec-v3
Meshtastic f6ea	Kukio	Hawaii	t-echo
Meshtastic 2d76 (mobile)	Lalamilo	Hawaii	tracker-t1000-e
Meshtastic 482f	Lalamilo	Hawaii	rak4631
Meshtastic Se38	Lalamilo	Hawaii	rp2040-lora
Meshtastic 6453	Lalamilo	Hawaii	t-echo
Meshtastic 8295	Lalamilo	Hawaii	tracker-t1000-e
Meshtastic b648	Lalamilo	Hawaii	ilogo-tbeam-s3-core
Meshtastic c87	Lalamilo	Hawaii	tracker-t1000-e
Meshtastic e18e	Lalamilo	Hawaii	portduino
P400-30db	Lalamilo	Hawaii	rak4631
solar 167 gps alpha	Lalamilo	Hawaii	portduino
WH6EHU - 2f5	Lalamilo	Hawaii	rak4631
KH6EKD-2	Laupahoehoe	Hawaii	heltec-v3
Meshtastic 71ea	Laupahoehoe	Hawaii	rak4631
KBT-R-ca9a	Lower Palaisades	Hawaii	tracker-t1000-e
9BD0	Lower Volcano	Hawaii	portduino
WH6GX2-ecom	Lower Waimea Town	Hawaii	heltec-mesh-node-t114
H2T	Lower Waimea Town	Hawaii	rak4631
Meshtastic ac1	Lower Waimea Town	Hawaii	heltec-v3
solar monolith	Lower Waimea Town	Hawaii	portduino
LMTK-23ac	Manoa	Hawaii	rak4631
HPKU Hale Pohaku	Mauna Kea	Hawaii	station-g2
Ditto	Mauna Kea Beach	Hawaii	heltec-v3
Onix	Mauna Kea Beach	Hawaii	heltec-v3
77T1-Tracker 1	Mauna Lani	Hawaii	seeded_wio_tracker_I1
Meshtastic 301c	Mauna Lani	Hawaii	rak4631
Solar Tango Mauna Lani	Mauna Lani	Hawaii	rak4631
MLOA-01 BIARC	Mauna Loa	Hawaii	station-g2
SW	Mid Kawaihae Rd	Hawaii	tracker-t1000-e
APRS Igate Eden Rock 96771	Mountain View	Hawaii	heltec-vision-master-t190
KH6GG (mobile)	Mountain View	Hawaii	t-deck
KH6GG T-1000	Mountain View	Hawaii	tracker-t1000-e
KH6KU	Mountain View	Hawaii	heltec-wsl-v3
WH6EP5-B	Mountain View	Hawaii	station-g2
WH6EP5-M	Mountain View	Hawaii	nano-g2-ultra
WH6EP5-M2	Mountain View	Hawaii	tracker-t1000-e
WH6EP5-M3	Mountain View	Hawaii	station-g2
WH6JOE-B	Mountain View	Hawaii	heltec-v3
WH6JOE-M1	Mountain View	Hawaii	tracker-t1000-e
WH6LC-B1	Mountain View	Hawaii	heltec-wsl-v3
Max Davis	Mud Lane	Hawaii	rak4631
Solar Mamalahoa	Mud Lane	Hawaii	heltec-v3
AH6V-00ec	Ninole	Hawaii	heltec-v3
AH6V-6d04	Ninole	Hawaii	heltec-v3

# Hawaii Meshtastic listing continues

# Hawaii Meshtastic listing continues

KH6UU repeater	Maui	rak4631	
SunMesh 91Sa Solar	Maui	heltec-v3	
Meshtastic 607d	Honomuni	Molokai	t-echo
ENTM_Paper	Kaunakakai	Molokai	heltec-wireless-paper
ENTM-Solar	Kaunakakai	Molokai	heltec-mesh-node-t114
PSOACAF	Kaunakakai	Molokai	heltec-v3
Molokai Kualapuu Hill	Kualapuu	Molokai	rak4631
MolokaiMesh1	Kualapuu	Molokai	rak4631
WH6HDC-base	Kualapuu	Molokai	t-echo
WH6HDC-mobile	Kualapuu	Molokai	t-echo
WH6HDC-mobile	Kualapuu	Molokai	heltec-mesh-pocket
ENTM_Solar	Kualapuu	Molokai	rak4631
ENTM_T-deck (mobile)	Kualapuu	Molokai	t-deck
ENTM_Terminal	Kualapuu	Molokai	rak4631
ENTM-Peanut	Kualapuu	Molokai	heltec-v3
Meshtastic 63c0	Pearl Harbor	Oahu	heltec-v3
RUSwork 003c	Ala Moana	Oahu	heltec-v3
AG_Green_Radio	East Kapolei	Oahu	heltec-v3
AG-X_Base_Node	East Kapolei	Oahu	heltec-v3
Meshtastic 6424 KH6OWL	East Kapolei	Oahu	heltec-v3
Mrs_ Loaf	East Kapolei	Oahu	t-echo
Sugoi Mesh	East Kapolei	Oahu	tracker-t1000-e
Sugoi Mesh R3 K	East Kapolei	Oahu	rak4631
SWTI 37C	East Kapolei	Oahu	rak4631
hawaii_gaz	Enchanted Lake	Oahu	heltec-v3
Hawaii_eaz	Enchanted Lake	Oahu	heltec-v3
KH6ML Bad Echo	Enchanted Lake	Oahu	heltec-v3
Meshtastic 4c7f	Enchanted Lake	Oahu	heltec-v3
Meshtastic 9454	Enchanted Lake	Oahu	t-echo
WH77S T-Echo	Enchanted Lake	Oahu	t-echo
Meshtastic 6a44	Ewa	Oahu	heltec-v3
AH6WN RAK Mobile	Ewa Beach	Oahu	rak4631
Atalox B 6894	Ewa Beach	Oahu	rak4631
Ewa by Gentry	Ewa Beach	Oahu	rak4631
Greenfield H58	Ewa Beach	Oahu	lilygo-tbeam-s3-core
HeiGreenBlack 5898	Ewa Beach	Oahu	heltec-v3
Neacton	Ewa Forest Reserve	Oahu	t-beam
Meshtastic 90b4	Ewa Plains	Oahu	t-beam
Meshtastic 22c9	Halawa	Oahu	seed Card Tracker T1000-E
7o Minami ch20 c067	Hawaii Kai	Oahu	t-echo
KH6D Spec5	Hawaii Kai	Oahu	t-deck
Last Responder	Hawaii Kai	Oahu	rak4631
Meshtastic e68B	Hawaii Kai	Oahu	heltec-mesh-node-t114
WisMesh Pocket 718a	Hawaii Kai	Oahu	rak4631
WH6FV 2	Hickam	Oahu	heltec-v3
K9 3e0	Kahala	Oahu	heltec-v3
KH7EC-R	Kahala	Oahu	rak2560

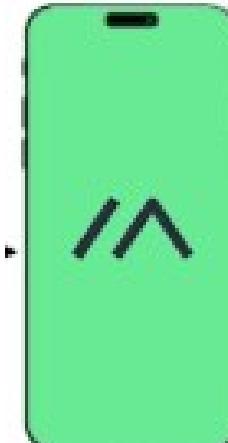


Meshtastic 4fa9	Kahala	Oahu	wismesh-tap
Meshtastic f504	Kahala	Oahu	heltec-v3
Mr. Loaf	Kahala	Oahu	t-echo
KH77C Solar Base	Kahaluu	Oahu	rak4631
MattMobile	Kailua	Oahu	heltec-v3
Meshtastic 86d4	Kailua	Oahu	heltec-v3
Meshtastic 4c57	Kailua	Oahu	heltec-v3
Meshtastic dfb7	Kailua	Oahu	heltec-v3
Meshtastic 3f0	Kailua	Oahu	heltec-v3
X.3f3	Kailua	Oahu	rak4631
X Solar - Hillsides RPTR	Kailua	Oahu	rak4631
KH7EC	Kaimuki	Oahu	tracker-t1000-e
KH7EC-A	Kaimuki	Oahu	heltec-v3
Kakaako 4678	Kakako	Oahu	heltec-v3
N1PDG-1	Kakako	Oahu	heltec-v3
Tiki's Loft A	Kakako	Oahu	rak4631
Kaleaoa	Kaleaoa Airport	Oahu	heltec-v3
Meshtastic e8a7	Kalihin Valley	Oahu	lilygo-tbeam-s3-core
WH6EGX mobile	Kalihin Valley	Oahu	seed Card Tracker T1000-E
APRS Kanoehi iGate	Kanoehi	Oahu	rak4631
ART1 ECHO	Kanoehi	Oahu	t-echo
Kealau Repeater	Kanoehi	Oahu	rak4631
KH6ML Tracker	Kanoehi	Oahu	seed-wio-tracker-11
KH6ML-e Echo	Kanoehi	Oahu	t-echo
KH7EH-04	Kanoehi	Oahu	station-g2
KH7EH-15	Kanoehi	Oahu	lilygo-tbeam-s3-core
Meshtastic 212c	Kanoehi	Oahu	rak4631
Meshtastic 93b0	Kanoehi	Oahu	tracker-t1000-e
Meshtastic d340	Kanoehi	Oahu	seed-wio_tracker_11
Meshtastic d25	Kanoehi	Oahu	tracker-t1000-e
Meshtastic f779	Kanoehi	Oahu	thinknode_M1
WH6FV 6	Kanoehi	Oahu	seed_wio_tracker_11
WH6FVX-3-06be	Kanoehi	Oahu	t-echo
6MLI Fuschia fe47	Kapahulu	Oahu	seed_wio_tracker_11
Drakemesh	Kapahulu	Oahu	seed_wio_tracker_11
Meshtastic 9946	Kapahulu	Oahu	t-echo
Meshtastic a74	Kapahulu	Oahu	seed_wio_tracker_11
Yuki Mobile Stubby	Kapahulu	Oahu	thinknode_m1
AH6WN RAK1	Kapolei	Oahu	rak4631
KH6OWL fc8	Kapolei	Oahu	heltec-v3
Meshtastic 7c74	Kapolei	Oahu	heltec-v3
Meshtastic d5b0	Kapolei	Oahu	tracker-t1000-e
KH6ML q T-Echo q	Keaau Kaneohe	Oahu	t-echo
Meshtastic 4194	Koko Head	Oahu	heltec-v3
302A AIEA Facebook: MESHTASTIC HAWAII	Koolau	Oahu	heltec-v3
302B Mobile	Koolau	Oahu	heltec-v3
Meshtastic 6ba0	Koolau	Oahu	tracker-t1000-e

Tikis.com near Band & Bar Solar	Kuhio Beach	Oahu	rak4631
SWTI 37A	Kunia	Oahu	tracker-t1000-e
Pensacola mesh 05	Lanikai	Oahu	tracker-t1000-e
WH6HEC-2	Lower Makiki	Oahu	tracker-t1000-e
Makakilo-09	Makakilo	Oahu	rak4631
Meshtastic 12ec	Makakilo	Oahu	rak4631
Meshtastic 3ade	Makakilo	Oahu	tracker-t1000-e
Meshtastic d5de	Makakilo	Oahu	heltec-mesh-mode-t114
Meshtastic d5de	Makakilo	Oahu	heltec-mesh-pocket
Windy	Makakilo	Oahu	seeded_wio_tracker_11
6MLs KH6ML Card at Work	Makiki	Oahu	tracker-t1000-e
Meshtastic 59c2	Makiki	Oahu	t-echo
T1000	Makiki	Oahu	tracker-t1000-e
KH77V Echo	Makiki - Roosevelt	Oahu	t-echo
Meshtastic e8cb	Makiki - Roosevelt	Oahu	t-echo
NH7IT 01	Makiki - Roosevelt	Oahu	t-echo
Basement not monitored 60CD	Makiki Punchbowl	Oahu	heltec-v3
Manoa/Tantalus mk23	Manoa	Oahu	t-beam
NH7IT Manoa	Manoa	Oahu	heltec-v3
Upper Manoa - mk23 808	Manoa	Oahu	rak4631
Bradventure	Maunawili	Oahu	heltec-v3
Pika	Maunawili	Oahu	rak4631
Meshtastic 57f8	MCBH Kaneohe	Oahu	heltec-v3
Meshtastic d724	MCBH Kaneohe	Oahu	heltec-v3
Meshtastic 74d0	Mililani	Oahu	heltec-v3
Meshtastic 92b6	Mililani	Oahu	heltec-v3
Meshtastic a211	Monalua	Oahu	heltec-v3
keolu kalua bmo	Nuuuan Valley	Oahu	heltec-v3
Keolu Kalua bmo	Olomana	Oahu	heltec-v3
Meshtastic 4b7f	Olomana	Oahu	heltec-v3
7o Traveling SEED 1edf	Palolo	Oahu	tracker-t1000-e
Howitz	Palolo	Oahu	heltec-v3
Meshtastic 6530	Palolo	Oahu	flora-v2-1-p6
Meshtastic 8705	Palolo	Oahu	heltec_mesh_node_t114
SOUTH 20 fbba	Palolo	Oahu	t-echo
TDW2 fb00	Palolo	Oahu	t-deck
302B Mobile	Pearl City	Oahu	heltec-v3
KH6ML Pearl City Fixed	Pearl City	Oahu	heltec-v3
HilMesh Project - Aiea	Pearl Harbor	Oahu	station-g2
Meshtastic 1a27	Pearl Harbor	Oahu	rak4631
Meshtastic 5d9d	Pearl Harbor	Oahu	t-echo
Meshtastic 3a1f	Pearl Harbor	Oahu	heltec-v3
Meshtastic 1c2c	Pearl Ridge	Oahu	heltec-vision-master-t110
Borg Re34	Pearlridge	Oahu	heltec-vision-master-t110
Meshtastic 2bcc	Pearlridge	Oahu	heltec-vision-master-t110
KH6ML-mobile T-Echo2	Punchbowl	Oahu	t-echo
KaiserT114_23b0	Roosevelt High Makiki	Oahu	heltec-mesh-node-t114
Kakaako 09b8	Roosevelt High Makiki	Oahu	heltec-v3
Hilens Solar PW Manoa	Upper Manoa	Oahu	rak4631
SLH2 c1ab	Upper Palolo	Oahu	t-echo
SLH1 9ef2 (mobile)	Upper Palolo	Oahu	t-echo
Traveler 9430	Upper Palolo	Oahu	t-deck
Meshtastic 3e68	Wahiawa	Oahu	heltec-v3
KH7EC-A	Waiiale Kahala	Oahu	heltec-v3
KH7EC-B	Waiiale Kahala	Oahu	heltec-v3
KH7EC-H	Waiiale Kahala	Oahu	heltec-v3
LoRa 6CP 514c	Waiiale Kahala	Oahu	heltec-v3
Meshtastic b8a6	Waiiale Kahala	Oahu	heltec-mesh-node-t114
Meshtastic d616	Waiiale Kahala	Oahu	t-lora-pager
suuke mesh	Waiiale Kahala	Oahu	t-deck
T Deck Complete	Waiiale Kahala	Oahu	tracker-t1000-e
WH6OMG 51d1	Waiiale Kahala	Oahu	seeded_wio_tracker_11
Meshtastic 0ddc	Waiiale-Kahala	Oahu	seeded_wio_tracker_11
Meshtastic 1d7c	Waiiale-Kahala	Oahu	seeded_wio_tracker_11
Meshtastic 8d79	Waiiale-Kahala	Oahu	seeded_wio_tracker_11
Meshtastic fa9f	Waiiale-Kahala	Oahu	seeded_wio_tracker_11
Sea Dog	Waialae-Kahala	Oahu	t-deck
HilMesh Project - Walanae	Walanae	Oahu	station-g2
D3 310	Waikale	Oahu	heltec-v3
D3 310 w	Waikale	Oahu	heltec-v3
Cincinnati Mobile Rock	Waikiki	Oahu	seeded-wio-tracker-11
holdstready	Waikiki	Oahu	tracker-t1000-e
Meshtastic 0584	Waikiki	Oahu	tracker-t1000-e
Meshtastic 4b27	Waikiki	Oahu	rak4631
Meshtastic e6d2	Waikiki	Oahu	tracker-t1000-e
NH7IT waiapuna	Waikiki	Oahu	seeded_wio_tracker_11
ShakataGahai/L1Pro	Waikiki	Oahu	wismesh-tag
ShakataGahai/WiTag bayme.sh	Waikiki	Oahu	tracker-t1000-e
Tako0_Actual	Waikiki	Oahu	rak4631
Wallopz Mobile	Waikiki	Oahu	tracker-t1000-e
7H02 Solar	Waimanalo	Oahu	rak4631
BluePanda	Waimanalo	Oahu	heltec-v3
GoldenPanda	Waimanalo	Oahu	heltec-v4
Meshtastic bb08	Waimanalo	Oahu	heltec_wireless_paper
Meshtastic c9f0	Waimanalo	Oahu	heltec-mesh-node-t114
Meshtastic e050	Waimanalo	Oahu	rak4631
RUSS bb66	Waimanalo	Oahu	lilygo-tbeam-s3-core
6136_5634	Waimanu Valley Ridge	Oahu	heltec-v4
Meshtastic a26c	Waipahu	Oahu	seeded-wio-tracker-11
Meshtastic ba05	Waipahu	Oahu	heltec-mesh-node-t114
Poi Dog 194	Waipahu	Oahu	heltec-v3
Meshtastic Sccc	Waipahu Uka	Oahu	heltec-v3
WH6ECG-00 Heeia	Windward Mall area	Oahu	heltec-v3

# Hawaii Meshtastic listing continues

AH6T_Mesh_dcc6	Oahu	t-echo	JavaMeshHome	heltec-v3
KH6EKD-1	Oahu	heltec-v3	Jays Node	rak4631
KH6ML-b QTH Loft	Oahu	heltec-v3	Jeffrey 89be	t-echo
KH6ML-fox	Oahu	heltec-v3	Joey	heltec-v4
NH7IJ Robot	Oahu	heltec-v3	KSDCE Base	heltec-v3
WH6ECG-15	Oahu	heltec-v3	KA4NQS 157c	heltec-v3
WH6ECG-2	Oahu	heltec-v3	KailMT	heltec-v3
WH6ECG-5	Oahu	heltec-v3	Karah_WRXM997	tracker-t1000-e
WH6ECG-6	Oahu	heltec-v3	KERINY 3.0	liligo-theam-s3-core
WH6ECG-7	Oahu	t-deck	KH6GUU 5dd4	heltec-v3
WH6ECG-9	Oahu	t-deck	KH7EC-C	heltec-v3
WH6FVX-Dash	Oahu	sensecap-indicator	KH7EH-NWS	liligo-theam-s3-core
Feds Watcher	unknown	t-deck-pro	KH7TV Beam	rak4631
101 Home Base		heltec-v3	Kihohana Solar	rak4631
101 mobile		heltec-v3	KL7VE a3af	rak4631
39EC		heltec-v3	KR-IT-RC	tracker-t1000-e
4248 (mobile)		t-deck	Kulamoku MQTT Maui	station-g2
6C Hell-Kat		heltec-v3	Lanikai looking @Kailua & Maui	rak4631
6C R1		rak4631	LM - Turbotest	xiao-nrf52-kit
6C Wisblock		rak4631	LM-Rak	rak4631
6C_M1		thinknode-m1	LM-TactCon	sensecap-indicator
6C_Pocket_Mesh_10k		heltec-mesh-pocket	LM-UDTtest	station-g2
6C_Pocket_Mesh_5k		heltec-mesh-pocket	M-1	rak4631
6CP ESF2		tracker-t1000-e	MadgeAR02	t-deck
6Mlg Green Peak e206		rak4631	Magnetic 1b76	rak4631
777 6e2b		tracker-t1000-e	Mama_Kat e770	heltec-v3
7o N20 Solar 5c0b		rak4631	Maus a98a	tracker-t1000-e
7o RAK3 6c2c		rak4631	Maxinix Rok Trak	rak4631
a5b8 Frankie		heltec-v3	Meshtastic 6b68	meshtastic-terminal
AAAA 6a36		tracker-t1000-e	Mehastic Terminal	rak4631
AB4YY-solar		rak4631	Merlin 350	ra04631
AG_Blue_Radio		heltec-v4	Meshtastic 02ce	heltec-mesh-mode-t114
AH6WN T-Deck		t-deck	Meshtastic 02f4	tracker-t1000-e
Alex		heltec-v3	Meshtastic 03ac	t-deck
All meshed up		heltec-v4	Meshtastic 04c6	heltec-mesh-node_t114
Astra Hv3		heltec-v3	Meshtastic 04e0	t-deck
Atlavox Cape Coral		rak4631	Meshtastic 0506	rak4631
Attick Shire		t-beam	Meshtastic 059d	meshtastic-terminal
AUXC HI		heltec-v3	Meshtastic 0660	rak4631
AWiese1		heltec_mesh_node_t114	Meshtastic 06cc	meshtastic-terminal
Backpack_jblack_m		rak4631	Meshtastic 078a	tracker-t1000-e
Battery		heltec-mesh-pocket	Meshtastic 0892	rak4631
BBBBB 7cf8		heltec-v3	Meshtastic 0c70	meshtastic-terminal
bDrifter_01 e023		rak4631	Meshtastic 1476	rak4631
bDrifter_03 d368		heltec-v3	Meshtastic 147a	rak4631
Bender 72c0		heltec-v3	Meshtastic 14b9	rak4631
Bird 6fa1		heltec-mesh-pocket	Meshtastic 1598	meshtastic-terminal
 bMesh 32c2			Meshtastic 15dc	heltec-mesh-pocket
bMeshtastic 637c			Meshtastic 16a2	rak4631
bmo808-1			Meshtastic 197c	heltec-v4
Bombtastic			Meshtastic 1d94	heltec-mesh-node-t114
BROVO 3			Meshtastic 2004	station-g2
BROVO 4			Meshtastic 2026	rak4631
BRT 88d5			Meshtastic 2048	rak4631
Bruh 45d0			Meshtastic 21fc	t-echo
BXvn1			Meshtastic 2528	rak4631
CA-T1000-E-1			Meshtastic 25e0	rak4631
CERT-OL-04			Meshtastic 25f0	meshtastic-terminal
CERT-OL-B-Orchidland			Meshtastic 2660	rak4631
chaps			Meshtastic 276a	rak4631
Chee Hoo			Meshtastic 27c5	meshtastic-terminal
CMG Car			Meshtastic 2849	rak4631
Coconutwireless CW-A			Meshtastic 298c	heltec-mesh-pocket
Coconutwireless CW-R			Meshtastic 2a1	rak4631
CoconutWireless CW-S			Meshtastic 2b24	thor-a2-1-1p6
COM2-HI			Meshtastic 290	heltec-v4
COML HI d2f4			Meshtastic 30bc	heltec-mesh-pocket
comt-5d7c			Meshtastic 3163	rak4631
CP-Base			Meshtastic 3261	rak4631
Crypto5			Meshtastic 3528	rak4631
D19G			Meshtastic 36f9	t-echo
Dominik			Meshtastic 36f9	rak4631
drivec 4 - SF, UT			Meshtastic 36f9	rak4631
Elab b14c			Meshtastic 3e68	t-beam
EMCOM ESF-2			Meshtastic 3f34	rak4631
ENTM_Peacock			Meshtastic 3f68	t-deck
ESF2M 739c			Meshtastic 3f98	rak4631
F2G1			Meshtastic 4294	rak4631
FPR.RWMP			Meshtastic 4398	meshtastic-terminal
Frogstrap c5c5			Meshtastic 4533	rak4631
GeneBean Office 01			Meshtastic 4ac0	t-deck
GGGG 1fb0			Meshtastic 4b1d	meshtastic-terminal
gogo			Meshtastic 4cb3	rak4631
GreenGuy			Meshtastic 4d45	rak4631
Gt22_6d5b			Meshtastic 5073	rak4631
Harbor Breeze 01			Meshtastic 515c	meshtastic-terminal
HAVERLY01			Meshtastic 54e4	rak4631
Hawalimeshmp			Meshtastic 556c	meshtastic-terminal
HBMC-R			Meshtastic 583c8	heltec-v3
Helix-Heltec-V4			Meshtastic 5890	heltec-v3
HeritageLink			Meshtastic Scfc	meshtastic-terminal
icebear			Meshtastic Sdd6	rak4631
Inoculation			Meshtastic 6190	rak4631
Iron Giant			Meshtastic 61d4	rak4631
			Meshtastic 63cd	rak4631



# Hawaii Meshtastic listing continues

Meshtastic 6615	tracker-t1000-e	MiMobile	lilygo-tbeam-s3-core
Meshtastic 67b0	rak4631	MkkB	heltec-v3
Meshtastic 696e	t-beam	mkkD	heltec-v3
Meshtastic 6a04	heltec-v3	mkkP	heltec-v3
Meshtastic 6a2c		mkkT	heltec-v3
Meshtastic 6d44		MLCS-2	heltec-v3
Meshtastic 6dbd	tracker-t1000-e	MLE_752c	station-g2
Meshtastic 6ddc		MLE_Net_e66f	rak4631
Meshtastic 6e34		MLoa_H Test	heltec-v3
Meshtastic 7060	rak4631	Mobile_fda0	heltec-v4
Meshtastic 7280	t-beam	Mobiud T1000-E	tracker-t1000-e
Meshtastic 72fc	heltec-v3	Molokai MPS MOD6 19d	rak4631
Meshtastic 74b0		Monkey 8044	rak4631
Meshtastic 78a3		msunset	t-deck
Meshtastic 7afc		MT3	tlora-v2-1-1p6
Meshtastic 7b94	t-beam	Muzi-R1-Rover	muzi_r1_neo
Meshtastic 7bd8	heltec-v3	NEE2	heltec-v3
Meshtastic 7c78	tiota-v2-1-1p6	Neshtastic a078	heltec-v3
Meshtastic 7d14	rak4631	Nibbler 8de4	heltec-v3
Meshtastic 7fc4		Node Collector EDC Muzi	rak4631
Meshtastic 8148		NorthRWest 2	heltec-v3
Meshtastic 83f4		NorthRWest Base	heltec-v3
Meshtastic 87d5		Norwood-Online	portduino
Meshtastic 8824		Nurse Dude NOC	rak4631
Meshtastic 8c88	heltec-v3	ORCA Hapuna	tracker-t1000-e
Meshtastic 8f3c		ORCA T1000e	t-deck
Meshtastic 8fd1		ORCA Tdeck Plus (mobile)	rak4631
Meshtastic 90dc		ORCA Westside	t-deck
Meshtastic 92c4		Orcatdeck	heltec-wireless-paper
Meshtastic 9468	heltec-v3	Paper c244	heltec-ws1-v3
Meshtastic 94b8		PatchrZero_Prime	rak4631
Meshtastic 9650		Patti	tracker-t1000-e
Meshtastic 97a7		Pher Mobile	portduino
Meshtastic 9940	heltec-v3	pi3-30db-echo	portduino
Meshtastic 9c61	rak4631	pi3-cd98	portduino
Meshtastic 9fb8	heltec-v3	Pi5-waveshare bfc2	heltec-ws1-v3
Meshtastic a096		Pi-zero-22db alpha	rak4631
Meshtastic a0aa		pi-zeroW-delta	portduino
Meshtastic a304	heltec-wireless-tracker	Plantation Harbor 6da3	heltec_mesh_node_t114
Meshtastic a42f8		Plantation Harbor eed6	heltec_mesh_node_t114
Meshtastic a4b8	heltec-v3	RAK Solar KOKO	rak4631
Meshtastic a5dc	heltec-v3	Rook Pro	t-echo
Meshtastic a8ca		Rookery CAW1	t-echo
Meshtastic a978		Rookland	heltec-v3
Meshtastic aa80	heltec-v3	Scooby Doo	tracker-t1000-e
Meshtastic abcb	rak4631	Sen1	
Meshtastic ade8		SenseCap_02	tracker-t1000-e
Meshtastic aec7		SKW1	heltec-v3
Meshtastic b468	heltec-v3	Small Kine Lolo Papolo	tracker-t1000-e
Meshtastic b6fd		solar block	rak4631
Meshtastic b7dc		Solar DannyK	rak4631
Meshtastic b8ac	heltec-v3	Solar Oscar	rak4631
Meshtastic b9c9	tracker-t1000-e	Solar Snake 01	rak4631
Meshtastic b9f9	tracker-t1000-e	SolarBaker	heltec-mesh-mode-t114
Meshtastic bac7		SOTU	rak4631
Meshtastic be24	heltec-v3	Station G2	station-g2
Meshtastic be90	heltec-v3	Sugoi Mesh R1	rak4631
Meshtastic c008	heltec-v3	Sukebe mobile	heltec-v3
Meshtastic c0f0		SunMesh 915a	heltec-v3
Meshtastic cac8	heltec-v3	T_Beam_5_986c	lilygo-tbeam-s3-core
Meshtastic cc04	rak4631	T-Beam Beta	t-beam
Meshtastic cd50	heltec-v3	T-Beam Gamma	t-beam
Meshtastic ce9e		t-beam S3 49e8	heltec-v3
Meshtastic d145	heltec_mesh_node_t114	Tbird TT01	t-deck
Meshtastic d403	tracker-t1000-e	tdeck forrestk3	t-deck
Meshtastic d514	heltec-v3	T-Echo a912	t-echo
Meshtastic d904		T-Echo c7a3	t-echo
Meshtastic d958		Tiny Solar (Williams Crossroads)	xiao-nrf52-kit
Meshtastic da82		TK_Heltec_V3	heltec-v3
Meshtastic db70	t-deck	TRE1 9502	rak4631
Meshtastic defc	heltec-v3	Uconsole	portduino
Meshtastic dfe8	heltec-v3	VERT Deputy Planning Chief	tracker-t1000-e
Meshtastic e110	heltec-v3	VERT Fire Dept Liaison	tracker-t1000-e
Meshtastic e128 (mobile)	t-deck	VERT Medical Unit Lead	tracker-t1000-e
Meshtastic e214		VERT-01	tracker-t1000-e
Meshtastic e4d4	t-deck	Vogon Poetry	heltec-v3
Meshtastic e9f0		W4 Solar 0b8d	rak4631
Meshtastic ee90		Wah_Puku_1	heltec-v3
Meshtastic f310	t-deck	Warbird Pocket	rak4631
Meshtastic f6b4	station-g2	WH6ECG-34 Heeia	heltec_mesh_node_t114
Meshtastic f728	heltec-v3	WH6ECG-37 Heeia	heltec_mesh_node_t114
Meshtastic f7c4	heltec-v3	WH6FIX 1	heltec-v3
Meshtastic f830		WH6FXV-0	heltec-v3
Meshtastic f8d0	heltec-v3	WH6FXV-1 000c	heltec-v3
Meshtastic f8f0		WH6GEJ RAK2	rak4631
Meshtastic f934	heltec-v3	WH6GIY Mobile	rak4631
Meshtastic f954		WH6GIY Palasades Roo	rak4631
Meshtastic fb9c	xiao-nrf52-kit	WH6GPZ-2	heltec-v3
Meshtastic fba5		WH6OMG solar 1	rak4631
Meshtastic fc73		WH6OMG Solar 2	rak4631
Meshtastic fe05	heltec-v3	WH7PD_DragonHawk	heltec-v3
Meshtastic fe54	heltec-v3	Whisper Node 3	rak4631
Meshtastic d0d0	muzi_r1_neo	WS85	heltec-v3
Millie_dc60		WYK7 TC2-885-Mesh CMD B	heltec-v3
		X Solar	rak4631
		X Tdeck	t-deck
		zhu 5e08	heltec-v3

# Communicating with Other Hams

## Contact Basics: Good Amateur Practices

### Q-Signals

Q-signals are a system of radio shorthand as old as wireless and developed from even older telegraphy codes. Q-signals are a set of abbreviations for common information that save time and allow communication between operators who don't speak a common language. Modern ham radio uses them extensively. The table below lists the most common Q-signals used by hams. While Q-signals were developed for use by Morse operators, their use is common on phone, as well. You will often hear, "QRZed?" as someone asks "Who is calling me?" or "I'm getting a little QRM" from an operator receiving some interference or "Let's QSY to 146.55" as two operators change from a repeater frequency to a nearby simplex communications frequency.

Q-Signals	
Abbr.	Questions
QRG	Your exact frequency (or that of _____) is _____ kHz. Will you tell me my exact frequency (or that of _____)?
QRL	I am busy (or I am busy with _____). Are you busy? Usually used to see if a frequency is busy.
QRM	Your transmission is being interfered with _____. (1. Nil; 2. Slightly; 3. Moderately; 4. Severely; 5. Extremely.) Is my transmission being interfered with?
QRN	I am troubled by static _____. (1 to 5 as under QRM.) Are you troubled by static?
QRO	Increase power. Shall I increase power?
QRP	Decrease power. Shall I decrease power?
QRQ	Send faster (_____ wpm). Shall I send faster?
QRS	Send more slowly (_____ wpm). Shall I send more slowly?
QRT	Stop sending. Shall I stop sending?
QRU	I have nothing for you. Have you anything for me?
QRV	I am ready. Are you ready?
QRX	I will call you again at _____ hours (on _____ kHz). When will you call me again? Minutes are usually implied rather than hours.
QRZ	You are being called by _____ (on _____ kHz). Who is calling me?
QSB	Your signals are fading. Are my signals fading?
QSK	I can hear you between signals; break in on my transmission. Can you hear me between your signals and if so can I break in on your transmission?
QSL	I am acknowledging receipt. Can you acknowledge receipt (of a message or transmission)?
QSO	I can communicate with _____ direct (or relay through _____). Can you communicate with _____ direct or by relay?
QSP	I will relay to _____. Will you relay to _____?
QST	General call preceding a message addressed to all amateurs and ARRL members. This is in effect "CQ ARRL."
QSX	I am listening to _____ on _____ kHz. Will you listen to _____ on _____ kHz?
QSY	Change to transmission on another frequency (or on _____ kHz). Shall I change to transmission on another frequency (or on _____ kHz)?
QTC	I have _____ messages for you (or for _____). How many messages have you to send?
QTH	My location is _____. What is your location?
QTR	The time is _____. What is the correct time?

### ITU Phonetic Alphabet

Letter	Word	Pronunciation
A	Alfa	AL FAH
B	Bravo	BRAH VOH
C	Charlie	CHAR LEE
D	Delta	DELL TAH
E	Echo	ECK OH
F	Foxtrot	FOKS TROT
G	Golf	GOLF
H	Hotel	HOH TELL
I	India	IN DEE AH
J	Juliet	JEW LEE ETT
K	Kilo	KEY LOH
L	Lima	LEE MAH
M	Mike	MIKE
N	November	NO VEM BER
O	Oscar	OSS CAH
P	Papa	PAH PAH
Q	Quebec	KEH BECK
R	Romeo	ROW ME OH
S	Sierra	SEE AIR RAH
T	Tango	TANG GO
U	Uniform	YOU NEE FORM
V	Victor	VIK TAH
W	Whiskey	WISS KEY
X	X-Ray	ECKS RAY
Y	Yankee	YANG KEY
Z	Zulu	ZOO LOO

**Note:** The **boldfaced** syllables are emphasized. The pronunciations shown in this table were designed for those who speak any of the international languages. The pronunciations given for "Oscar" and "Victor" may seem awkward to English-speaking people in the US.