



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.



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, Mauna

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

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

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 Keaau, 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 Keaau 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).

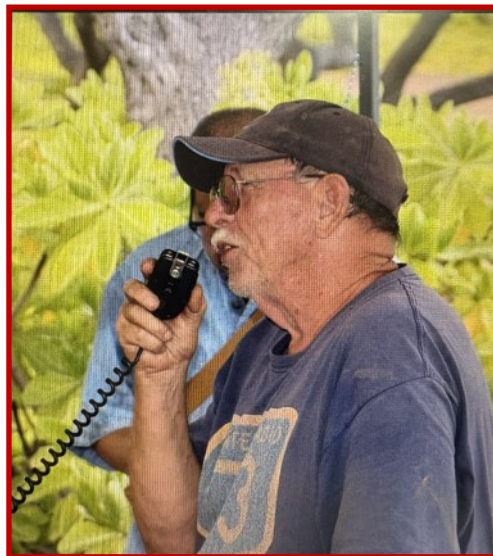
We "finally" arrived at the gate entrance to the WFD site only to discover police cars, fire trucks and emergency vehicles. It turns out they were looking for a lost spear fisherman. (Unfortunately, later that evening they did find his body.)

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

On the way home ...



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

WF1A, Vojin Oklogdzija, operated the CW tent and the main area had SSB and the food. They operated "30 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!



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

Oahu: Kimo, KH7U email: kimochun at gmail.com

Maui: Alan AD6E email: ad6e at arrl.net

Hawaii: Lloyd KH6LC email: kh6lc at hot-mail.com

Guam: Tim KH2XX email: eodkaboom at 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_CVDbkGfu19yVdeGHoeubapnEpGikJ/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 and NOT arrl.org

ARRL Pacific Section

Section Manager: Alan P Maenchen, AD6E 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. 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, 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.



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	

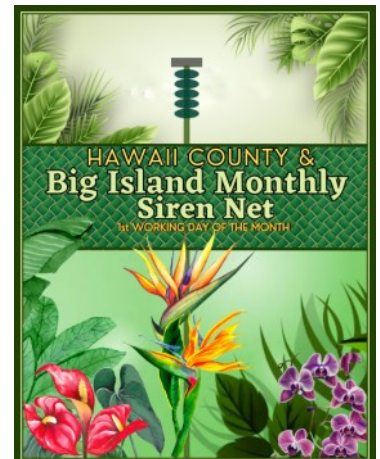
PARTIALLY WORKING

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	N0CAN	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	N0CAN	Mauna Kea	Working
HA120 Mohouli Park	N0CAN	Mauna Kea	Working
HA123 Waikaumalo Park Ninole	WH6FIQ	Allstar	Working
HA202 Laupheohoe Point	WH6FSI	Allstar	Working
HA301 Paaui	AH6JA	Email	Working



The Hawaii County Siren Report for February 2026

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From previous page

HA304 Ookala	WH6GDC	Allstar	Working
HA401 Waimea Park Kamuela	WH6EHJ	Mauna Kea	Working
HA402 Waiaka Bridge Kamuela	WH6EHJ	Mauna Kea	Working
HA405 Puako General Store #1	WH6EHJ	Mauna Kea	Working
HA407 Kawaihae Harbor	WH6EHJ	Mauna Kea	Working
HA502 Keokea Park Kohala	WH7PE	Email	Working
HA503 Kamehameha Park Kohala	WH7WZ	Allstar	Working
HA601 Palani / Kuakini Kona	NH6SP	Email	Working
HA605 Magic Sands Kona	KH6OWT	Allstar	Working
HA610 Honokahau Boat Harbor	KH6ICU	DMR	Working
HA611 NELHA Kona	WH6GTD	Text	Working
HA701 Kealakaekua	WF1A	DMR	Working
HA702 Captain Cook	WH6WF	Email	Working
HA801 Naalehu	WH6HC	DMR	Working
HA804 Pahala	WH7BR	Allstar	Working
HA809 HOVE Reef Blvd #3	WH6FC	DMR	Working
HA901 Mountain View	WH6LC	Email	Working
HA902 Shipman Park Keaau	WH6FDE	Email	Working
HA907 Hawn Beaches Park #1	KH7LM	Mauna Kea	Working
HA912 HPP #2 4th & Awapuhi	WH6HAA	Mauna Kea	Working
HA913 HPP #3 6th & Makuu	NH6OV	Mauna Kea	Working
HA915 Leilani Estates	WH6EXM	Text	Working
HA925 HPP #1 Paradise / Ala Kai	KH6CZ	Mauna Kea	Working
HA936 Cooper Center Volcano	KH7DQ	Mauna Kea	Working
HA937 Waa Waa	NH7PE	Text	Working
HA901 Mountain View	WH6FDE	Email	Working
HA611 NELHA Kona	WH6GIY	DMR	Working
HA606 Keauhou	WB7N	Text	Working
HA107 Federal Building Downtown	WH6HBH	Allstar	Working
HA301 Paauilo	WH6HFT	Allstar	Working
HA604 Upchurch- Kona	KH6BFD	Allstar	Working

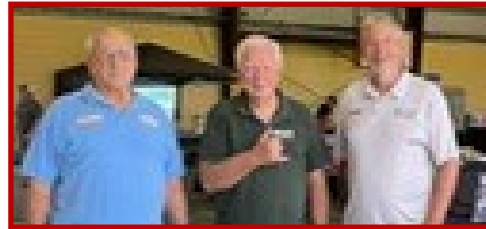
BIARC

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 3YØJ 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, nh6m	Ahikawa Kailua-Kona	Hawaii	heltec-wireless-tracker	Meshtastic 07e4	Hualalai 4 Seasons	Hawaii	rak4631
Meshtastic cc7	Ahikawa K.E.	Hawaii	tracker-t1000-e	solar kilo	Hualalai 4 Seasons	Hawaii	tracker-t1000-e
Meshtastic 12a8	Ahualoa	Hawaii	rak4631	Patches	Hualalai Villas	Hawaii	heltec-mesh-node-t114
Meshtastic 60D3	Ahualoa	Hawaii	rak4631	Meshtastic 4dda	Kahului	Hawaii	rak4631
WH6HAA-VII	Amaia	Hawaii	tracker-t1000-e	Elab Pi Waveshare A021	Kailua-Kona	Hawaii	heltec-v3
HBMCI	Amaui	Hawaii	station-g2	K7JBS KOA	Kailua-Kona	Hawaii	heltec-v3
BROVO 1	East Volcano	Hawaii	tracker-t1000-e	Makalei rh6m	Kailua-Kona	Hawaii	station-g2
Cona_Hale	East Volcano	Hawaii	rak4631	solar-huehue 7593	Kailua-Kona	Hawaii	heltec-v3
Farley_Server	East Volcano	Hawaii	station-g2	WH7Q Kailua Kona	Kailua-Kona	Hawaii	station-g2
Fah-Solar Base	East Volcano	Hawaii	rak4631	Ahikawa RH6M	Kailua-Kona	Hawaii	heltec-v3
ron-BIV	East Volcano	Hawaii	heltec-v3	Dewey rh6m	Kailua-Kona	Hawaii	heltec-wireless-tracker
GY2 001	East Volcano	Hawaii	heltec-v3	Kalaea 1490	Kalaea	Hawaii	rak4631
Hitchiker	East Volcano	Hawaii	tracker-1000-e	Meshtastic 0620	Kaloko	Hawaii	heltec-v3
hitchiker rf udp	East Volcano	Hawaii	heltec-v3	Meshtastic 6c0d	Kalopa Mauka	Hawaii	t-echo
hitchiker XL	East Volcano	Hawaii	heltec-v3	P13-30db Kawaihae 8ff0	Kawaihae	Hawaii	portduino
hitchiker-udp	East Volcano	Hawaii	portduino	Solar Sierra	Kawaihae	Hawaii	heltec-v3
KH6GG Node 2	East Volcano	Hawaii	heltec-vision-master-t100	Kelan's Phone	Kawaihae Rd	Hawaii	tracker-t1000-e
IM-Base	East Volcano	Hawaii	station-g2	KH 7b78	Kawaihae Rd	Hawaii	heltec-wireless-tracker
IM Experimental	East Volcano	Hawaii	portduino	Heltec mesh node T114	Kawaihae Rd Waimea	Hawaii	heltec-v3
IM Meshtastic	East Volcano	Hawaii	heltec-v3	Kika1	Kawaihale	Hawaii	tracker-t1000-e
luka-4045	East Volcano	Hawaii	radio_g2_ultra	Little Brother	Keau	Hawaii	heltec-v3
MLL_Ret 5a60	East Volcano	Hawaii	heltec-v3	Mesh HPP c918	Keau	Hawaii	heltec-v3
MLL_Ret 5a60	East Volcano	Hawaii	heltec-v3	Mesh HPP c9a0	Keau	Hawaii	heltec-v3
Nurse Dude Alphanuz	East Volcano	Hawaii	heltec-mesh-mod2-t114	Meshtastic ee30	Keau	Hawaii	tlora-v2-1-1p6
Nurse Dude t-deck	East Volcano	Hawaii	t-deck	ChrisH2T v6	Keahole	Hawaii	heltec_mesh_node_t114
nurse dude v4 2gh	East Volcano	Hawaii	heltec-v4	Gibby	Keahole	Hawaii	tracker-t1000-e
Nurse Dude Vision	East Volcano	Hawaii	heltec-vision-master-t100	KBSLNC-2 Bi-Mobile when I go	Keahole	Hawaii	llygo-tbeam-s3-core
WI6CQD	East Volcano	Hawaii	tracker-t1000-e	X SX1262	Keahole	Hawaii	xiao-nrf52-kit
wh6gg mesh-tied	East Volcano	Hawaii	portduino	Keahole pt	Keahole Airport	Hawaii	rak4631
WH6GG Mini Mesh	East Volcano	Hawaii	portduino	CB202	Keauhou Kona	Hawaii	heltec-v3
wh6gg-udp	East Volcano	Hawaii	portduino	NBCMB	Keauhou Kona	Hawaii	heltec-mesh-node-t114
WH6GGZ-Fox	East Volcano	Hawaii	portduino	Meshtastic c78b	Keauhou	Hawaii	tracker-t1000-e
JT Mobile Mesh	East Waimea	Hawaii	tracker-t1000-e	kilohana east e873	Kilohana	Hawaii	rak4631
Meshtastic 92ac	East Waimea	Hawaii	heltec-v3	Kilohana solar West	Kilohana	Hawaii	rak4631
ed-378b-wkha	East Waimea	Hawaii	portduino	Kilohana Scout 6w-3k 6c8e	Kilohana Scout	Hawaii	rak4631
Uni miked_Lao	FA Mountain View	Hawaii	tracker-t1000-e	Hanaipoo mana ac9f	Kilohana Scout area	Hawaii	heltec-v3
solar monolith beta	Hale Pohaku	Hawaii	rak4631	HC Jumper	Kilohana Scout area	Hawaii	heltec-v3
Mesh 3F54	Hapuna	Hawaii	seed_wio_tracker_11	Meshtastic a2e9	Kilohana Scout area	Hawaii	rak4631
Kohala 8CA6	Hawi	Hawaii	rak4631	Meshtastic CC58	Kilohana Scout area	Hawaii	heltec-v3
Kohala 8Ca6	Hawi	Hawaii	rak4631	Kohala Hoes Rd 3	Kohala	Hawaii	heltec-v3
Meshtastic 70c4	Haw'r Ocean View	Hawaii		Kohala Hoes Rd 55-358-1	Kohala	Hawaii	heltec-v3
BK72	Hillside-Sunrise Sub	Hawaii	tlora-v2-1-1p6	Kohala Hoes Rd 55-358-2	Kohala	Hawaii	heltec-v3
12PB1	Hillside-Sunrise Sub	Hawaii	tlora-v2-1-1p6	Hawi 570f	Kohala Mtn Rd	Hawaii	rak4631
G08	Hillside-Sunrise Sub	Hawaii	tlora-v2-1-1p6	Kalopi Bad1	Kohala Mtn Rd	Hawaii	heltec-v3
G09	Hillside-Sunrise Sub	Hawaii	t-deck	Kalopi repeater	Kohala Mtn Rd	Hawaii	heltec-v3
G00P72	Hillside-Sunrise Sub	Hawaii	tlora-v2-1-1p6	Station G2 Control	Kohala Mtn Rd	Hawaii	station-g2
Hi Mesh 70jcu - Waialeale CERT Team 2	Hillside-Sunrise Sub	Hawaii	heltec-v3	6JA seed Hilo	Komohana	Hawaii	tracker-t1000-e
WH6GGX	Hillside-Sunrise Sub	Hawaii	tlora-v2-1-1p6	SS RANGER MAGNUM	Kona	Hawaii	t-deck
Demo1	Hilo	Hawaii	station-g2	Acti+B3:B17on Potential	Kukila Hilo	Hawaii	t-echo
Ghostline 2	Hilo	Hawaii	heltec-v3	Mobile1	Kukila Hilo	Hawaii	heltec-v3
Hi Mesh Project - Waialeale CERT Team 1	Hilo	Hawaii	heltec-v3	Meshtastic bfa	Kukila	Hawaii	t-echo
HUJ HiMesh Project - Waialeale CERT 4	Hilo	Hawaii	heltec-v3	Meshtastic 2d76 (mobile)	Lalamilo	Hawaii	tracker-t1000-e
HUJ HiMesh Project - Waialeale CERT 5	Hilo	Hawaii	heltec-v3	Meshtastic 482f	Lalamilo	Hawaii	rak4631
hijj himESH Project-Waialeale CERT 3	Hilo	Hawaii	heltec-v3	Meshtastic 5e38	Lalamilo	Hawaii	rp2040-lora
hijj himESH Project-Waialeale CERT 6	Hilo	Hawaii	heltec-v3	Meshtastic 6453	Lalamilo	Hawaii	t-echo
keychain_black_M	Hilo	Hawaii	heltec-v3	Meshtastic 8295	Lalamilo	Hawaii	tracker-t1000-e
KH6GG Pager	Hilo	Hawaii	rak4631	Meshtastic be48	Lalamilo	Hawaii	llygo-tbeam-s3-core
KH6RDO Hilo	Hilo	Hawaii	t-lora-pager	Meshtastic cc87	Lalamilo	Hawaii	
Meshtastic Potatoes	Hilo	Hawaii	station-g2	Meshtastic e18e	Lalamilo	Hawaii	tracker-t1000-e
Meshtastic 1210	Hilo	Hawaii	rak4631	P400-30db	Lalamilo	Hawaii	portduino
Meshtastic 3151	Hilo	Hawaii	t-echo	solar IP67 gps alpha	Lalamilo	Hawaii	rak4631
Meshtastic 4474	Hilo	Hawaii		WH6EHJ - 2fcs	Lalamilo	Hawaii	rak4631
Meshtastic 8d30	Hilo	Hawaii	station-g2	KH6EKD-2	Laupahoehoe	Hawaii	heltec-v3
Meshtastic 8ddf	Hilo	Hawaii	tracker-t1000-e	Meshtastic 71ea	Laupahoehoe	Hawaii	rak4631
Meshtastic e048	Hilo	Hawaii	heltec-v3	8BTR-ca9a	Lower Palisades	Hawaii	tracker-t1000-e
Naboa 1	Hilo	Hawaii	heltec-v3	9800	Lower Volcano	Hawaii	tracker-t1000-e
PHTO	Hilo	Hawaii	rak4631	WH6GX2-ecom	Lower Volcano	Hawaii	portduino
PM T1000 d7e0 (mobile)	Hilo	Hawaii	tracker-t1000-e	H2T	Lower Waimea Town	Hawaii	heltec-mesh-node-t114
Potala MV	Hilo	Hawaii	rak4631	Meshtastic ace1	Lower Waimea Town	Hawaii	rak4631
WH6EMN-B	Hilo	Hawaii	station-g2	solar monolith	Lower Waimea Town	Hawaii	rak4631
WH6EMN-Demo-M3	Hilo	Hawaii	tracker-t1000-e	LMTK-23ac	Mana	Hawaii	rak4631
WH6EMN-M1	Hilo	Hawaii	tracker-t1000-e	HPKU Hale Pohaku	Mauna Kea	Hawaii	station-g2
WH6EMN-M2	Hilo	Hawaii	nano-g2-ultra	Ditto	Mauna Kea Beach	Hawaii	heltec-v3
WH6FSA-M	Hilo	Hawaii	tracker-t1000-e	7771-Tracker 1	Mauna Kea Beach	Hawaii	heltec-v3
WH6GZZ	Hilo	Hawaii	station-g2	Meshtastic 301c	Mauna Lani	Hawaii	seed_wio_tracker_11
WH6HEO_2680	Hilo	Hawaii	heltec-v3	Solar Tango Mauna Lani	Mauna Lani	Hawaii	rak4631
WH6HEO_8B30	Hilo	Hawaii	heltec-v3	MLOA-01 BIARC	Mauna Loa	Hawaii	station-g2
WH6HEO_Xiaolin	Hilo	Hawaii	seed-xiao-s3	SW	Mid Kawaihae Rd	Hawaii	tracker-t1000-e
KD2HWH b394	Hilton Waikoloa	Hawaii	t-beam	APRS Igate Eden Rock 96771	Mountain View	Hawaii	heltec-vision-master-t190
Meshtastic fec4	Holualoa Kona	Hawaii	t-beam	KH6GG (mobile)	Mountain View	Hawaii	t-deck
Honokaa Hospital M1	Honokaa	Hawaii	tracker-t1000-e	KH6GG T-1000	Mountain View	Hawaii	tracker-t1000-e
Noah-Honokaa	Honokaa	Hawaii	station-g2	KH6KU	Mountain View	Hawaii	heltec-v3
Solar Pad alpha	Honokaa	Hawaii	rak4631	WH6EPS-8	Mountain View	Hawaii	station-g2
FIREDOG	Honokahau	Hawaii	t-deck	WH6EPS-M	Mountain View	Hawaii	nano-g2-ultra
AH6DL 6DL1	Honoum	Hawaii	rak4631	WH6EPS-M2	Mountain View	Hawaii	tracker-t1000-e
AH6DL Honoum T	Honoum	Hawaii	Liligo t-beam S3 core	WH6EPS-M3	Mountain View	Hawaii	station-g2
AH6DL roam a05e	Honoum	Hawaii	t-echo	WH6JOE-8	Mountain View	Hawaii	heltec-v3
HOV2 c318	HOVE	Hawaii	heltec-v3	WH6JOE-M1	Mountain View	Hawaii	tracker-t1000-e
KH7MS-Home	HOVE	Hawaii	heltec-v3	WH6LC-81	Mountain View	Hawaii	heltec-v3
KH7MS-M2	HOVE	Hawaii	heltec-v3	Max Davis	Mud Lane	Hawaii	heltec-v3
WH6FC_Mesh_dcc6	HOVE	Hawaii	t-echo	Solar Mamalahoa	Ninole	Hawaii	heltec-v3
Kaloli-6CZ	HPP	Hawaii	rak4631	AH6V-00ec		Hawaii	heltec-v3
NDOB in HPP	HPP	Hawaii	heltec-v3	AH6V-6d04		Hawaii	heltec-v3
Trust Science Not Morons	HPP	Hawaii	heltec-v3				



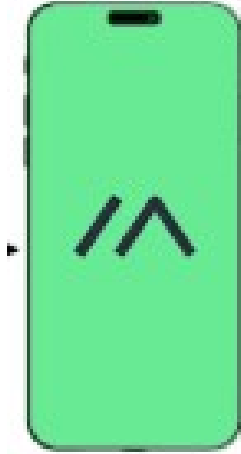
Hawaii Meshtastic listing continues

AH5V-Ninole Mauka	Ninole	Hawaii	heltec-v3	Meshtastic e3b7	Wright Rd Volcano	Hawaii	tracker-t1000-e
KH6GM G2 f5c4	Ninole	Hawaii	station-g2	Borg Server		Hawaii	station-g2
KH6GM Spec5 7f60	Ninole	Hawaii	heltec-wireless-tracker	C8999		Hawaii	t-deck
KH6GM T1000 bcd5 (mobile)	Ninole	Hawaii	tracker-t1000-e	ele's ale		Hawaii	heltec-v3
Pasaulo Mauka 1609	Pasaulo	Hawaii	rak4631	Kelan's Car		Hawaii	heltec-v3
Wardriver (mobile)	Pasaulo Mauka	Hawaii	rak4631	kg6hfw		Hawaii	heltec-v3
KH6HAK-82	Pahoa	Hawaii	station-g2	KH6GG-uGG		Hawaii	portduino
KH6HAK-M1	Pahoa	Hawaii	tracker-t1000-e	LM-Logging		Hawaii	portduino
HIMesh Project - Hilo	Panaewa	Hawaii	heltec-v3	Meshtastic 7871		Hawaii	heltec-mesh-node-t114
Meshtastic 3eca	Panaewa	Hawaii		Meshtastic 7c67		Hawaii	rak4631
KH6RDO-Pepeekeo	Pepeekeo	Hawaii	heltec-v3	Meshtastic 7e44		Hawaii	heltec-v3
Solar Keamuku	Pohakuloa	Hawaii	rak4631	M9diddle Brother		Hawaii	hitec-v4
Meshtastic 2dcd	Puako	Hawaii		MLOA-2		Hawaii	station-g2
Meshtastic e385	Puuanahulu	Hawaii	heltec_mesh_node_t114	ORCA Uconsole		Hawaii	portduino
HRCC Fast Node	UH West Hawaii	Hawaii	heltec-mesh-node-t114	Solar Sensor		Hawaii	rak4631
solar node golf	Upper HOVE	Hawaii	rak4631	Sum109374		Hawaii	heltec-v3
Hale Pohaku alpha 195f	Upper Humuula	Hawaii	rak4631	VolcanoAI		Hawaii	portduino
Waikii Coast	Upper Waiki	Hawaii	rak4631	WH6EBS-M2		Hawaii	tracker-t1000-e
Pocket V2 Gamma	Upper Waikoloa	Hawaii	rak4631	wh6gz-POE		Hawaii	rak4631
Car54 F324	Volcano	Hawaii	tracker-t1000-e	WH6GX2-ube		Hawaii	portduino
HA01 (mobile)	Volcano	Hawaii	tracker-t1000-e	WH6GZZ		Hawaii	heltec-mesh-node-t114
IST2	Volcano	Hawaii	rak4631	WH6HAA		Hawaii	tracker-t1000-e
KH7DQ Doug	Volcano	Hawaii	tracker-t1000-e	WH6HEO-Cold Xiaoer		Hawaii	seed-xiao-s3
KH7DQ-Base	Volcano	Hawaii	station-g2	Name	Approximate Location	Island	Device
Meshtastic 2b34	Volcano	Hawaii		WH6EY-Repeater	Wailua	Kauai	rak4631
MLE top 28	Volcano	Hawaii	rak4631	WH6EY-Unit1	Wailua	Kauai	rak4631
MLE_Net 1424	Volcano	Hawaii	heltec-v3	WH6EY-Unit2	Wailua	Kauai	rak4631
VERT Planning Section Chief	Volcano	Hawaii	tracker-t1000-e	Haiku Mahai	Haiku	Maui	Ullgo t-beam S3 core
VolcanoAI	Volcano	Hawaii	portduino	Robert	Haiku	Maui	t-deck
WH6EBS R4	Volcano	Hawaii	station-g2	Haleakala Repeater	Haleakala	Maui	rak4631
WH6EBS-M1	Volcano	Hawaii	tracker-t1000-e	Haleakala Summit Repeater	Haleakala	Maui	rak4631
WH6EBS-R3	Volcano	Hawaii	station-g2	IS2 3	Kaanapali	Maui	t-beam
WH6LQ	Volcano	Hawaii	tracker-t1000-e	Meshtastic 5384	Kaanapali	Maui	heltec_mesh_pocket
WH7BR-Base	Volcano	Hawaii	rak4631	Meshtastic 5f60	Kahalui	Maui	t-beam
WH7BR-M1	Volcano	Hawaii	tracker-t1000-e	Mat2 f48b	Kahalui	Maui	rak4631
gunwale	Volcano Golf Sub	Hawaii	tracker-t1000-e	6C t-deck	Kahalui	Maui	t-deck
NH6ET	WaaWaa	Hawaii	heltec-wsl-v3	KG6hfw	Kahalui	Maui	t-rho
HIMesh Project - Moku O Keawe	Waiakea Uka	Hawaii	heltec-wsl-v3	Meshtastic 1a8d	Kahalui	Maui	tracker-t1000-e
Sodna	Waianuenue	Hawaii	t-beam	Meshtastic 755b	Kahalui	Maui	tracker-t1000-e
Meshtastic da94	Waianuenue Hilo	Hawaii	heltec-v3	Meshtastic ac54	Kahalui	Maui	t-beam
Packmule	Waiki	Hawaii	heltec_mesh_node_t114	MIHNakoa	Kahalui	Maui	t-deck
P400-30db	Waiki	Hawaii	portduino	MIHTdeck	Kahalui	Maui	rak4631
Solar HP	Waiki Waimea	Hawaii	rak4631	PeakMesh 7702	Kahalui	Maui	tracker-t1000-e
solar waiki west	Waiki Waimea	Hawaii	rak4631	DSN_KiheI0	KiheI	Maui	tracker-t1000-e
K8SLNC visiting near Waikoloa	Waikoloa	Hawaii	ilgyo-tbeam-v3-core	Hello From Canada	KiheI	Maui	tiora-v2-1-1p6
KH_7878	Waikoloa	Hawaii	heltec_wireless_paper	KiheI1	KiheI	Maui	rak4631
Meshtastic 0488	Waikoloa	Hawaii	t-deck-pro	KiheIBase	KiheI	Maui	rak4631
Modbus T-Echo	Waikoloa	Hawaii	t-echo	Meshtastic c814	KiheI	Maui	
ORCA Uconsole	Waikoloa	Hawaii	portduino	Octogrid 01	KiheI	Maui	t-echo
7772-Tracker 2	Waikoloa Beach	Hawaii	tracker-t1000-e	Octogrid 6	KiheI	Maui	diy-v1
Dekko Drone	Waikoloa Beach	Hawaii	tracker-t1000-e	Octopie Base Node	KiheI	Maui	portduino
H2T Kncral438	Waikoloa Beach	Hawaii	heltec_mesh_node_t114	pmow mobile	KiheI Ridge	Maui	t-echo
M3at	Waikoloa Beach	Hawaii	tracker-t1000-e	Cloud Castle Farm	Kula	Maui	ilgyo-tbeam-s3-core
Meshtastic 012e	Waikoloa Beach	Hawaii		Meshtastic eb5f	Kula	Maui	t-echo
Meshtastic f22c	Waikoloa Beach	Hawaii		WH6PN-1 Fixed	Kula	Maui	heltec-v3
Meshtastic 4efc	Waikoloa Village	Hawaii	t-beam	KH6TU	Lahaina	Maui	heltec-v3
Orca Techo	Waikoloa Village	Hawaii	t-echo	Spud Mobile	Lahaina	Maui	ilgyo-tbeam-s3-core
61A seed Hilo	Wailuku	Hawaii	tracker-t1000-e	Big Kahuna 44e4	Launipoko Lahaina	Maui	tracker-t1000-e
GKSN Seed	Wailuku	Hawaii	tracker-t1000-e	Launipoko df60	Launipoko Lahaina	Maui	rak4631
all your base are belong to us	Waimea	Hawaii	rak4631	Meshtastic 90fa	Maialaea	Maui	t-echo
Chris Hawkins	Waimea	Hawaii	rak4631	Colin Makawao	Makawao	Maui	tiora-v2-1-1p6
Drone	Waimea	Hawaii	tracker-t1000-e	Kanaka1	Makawao	Maui	rak4631
elab router p14-30db ba5a	Waimea	Hawaii	portduino	KH6UU d03c	Makawao	Maui	rak4631
Hawi Rd Waimea e3c9	Waimea	Hawaii	heltec-v3	Meshtastic d287	Makawao	Maui	t-echo
Hokukula Solar	Waimea	Hawaii	rak4631	Meshtastic d510	Makawao	Maui	heltec-v3
HPA MQTT Gateway	Waimea	Hawaii	tracker-t1000-e	Rat2 G2	Makawao	Maui	station-g2
Kamika 336b	Waimea	Hawaii	rak4631	Silversword aabc	Makawao	Maui	heltec-v3
Mana Road 59ab	Waimea	Hawaii	rak4631	TG2N	Makawao	Maui	namo-g2-ultra
Meshtastic 0429	Waimea	Hawaii		Black Bag	Olinda	Maui	t-echo
Meshtastic 9c38	Waimea	Hawaii	tracker-t1000-e	KN6MCI T-Echo	Olowalu	Maui	t-echo
Meshtastic b981	Waimea	Hawaii	rak4631	Team Of One	Olowalu	Maui	heltec-v3
Meshtastic d2b9	Waimea	Hawaii	heltec-v3	WS85 WX 4011	Olowalu	Maui	rak4631
p14-30db-hoku desk	Waimea	Hawaii	ilgyo-tbeam-s3-core	Blue Mesh	Paia	Maui	
P14K-30db	Waimea	Hawaii	heltec-v3	Meshtastic 706C	Paia	Maui	heltec-v3
solar mini alpha	Waimea	Hawaii	station-g2	Meshtastic 7568	Paia	Maui	ilgyo-tbeam-s3-core
solar mini block	Waimea	Hawaii	rak4631	Meshtastic 4b68	Pukalani	Maui	station-g2
Solar Papa	Waimea	Hawaii	rak4631	Meshtastic 9380	Pukalani	Maui	ilgyo-tbeam-s3-core
T-Beam S3 9d24	Waimea	Hawaii	rak4631	Tavis T-Echo	Pukalani	Maui	t-echo
Waiki 74c0	Waimea	Hawaii	t-beam	Meshtastic 1c5c	Puunene	Maui	heltec-v3
Waiki G2	Waimea	Hawaii	ilgyo-tbeam-s3-core	MIH Master	Puunene	Maui	t-beam
Waiki Repeater	Waimea	Hawaii	rak4631	6C T-deck	Wailuku	Maui	t-deck
Waimea Homesteads	Waimea	Hawaii	6C_seed	Mat1 ed54	Wailuku	Maui	tracker-t1000-e
Wardriver beta	Waimea Town	Hawaii	Mat3 7052	Mat4 8355	Wailuku	Maui	rak4631
Cyclops	Waimea Town	Hawaii	Mat5 d67f	Meshtastic 4283	Wailuku	Maui	tracker-t1000-e
Solar Lima	Waimea Watershed	Hawaii	heltec-v3	Meshtastic 73e8	Wailuku	Maui	seed_wio_tracker_l1
T-Beam Control	Waimea Watershed	Hawaii	heltec-v3	pmow test	Wailuku	Maui	t-echo
T-Beam S3 Alpha	Waimea Watershed	Hawaii	heltec-v3	Randy 7f40	Wailuku	Maui	heltec-v3
LaeLae Repeater 4952	West HI Concrete	Hawaii		Wailuku Repeater (MQTT)	Wailuku	Maui	station-g2
Meshtastic 03a7	West HI Concrete	Hawaii		Atlixox 54		Maui	rak4631
Meshtastic 4154				Haiku K9-H 2f26		Maui	rak4631



Hawaii Meshtastic listing continues

HSU/JU repeater		Mauli	rak4631
SunMesh 915a Solar		Mauli	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	Molokai High School	Molokai	rak4631
ENTM_T_deck (mobile)	Molokai High School	Molokai	t-deck
ENTM_Terminal	Molokai Shores	Molokai	rak4631
ENTM-Peanut	Molokai Shores	Molokai	heltec-v3
Meshtastic 63C0	Pearl Harbor	Oahu	
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
SWT1 37C	East Kapolei	Oahu	rak4631
Hawaii_gst	Enchanted Lake	Oahu	heltec-v3
Hawaii_gst	Enchanted Lake	Oahu	heltec-v3
KH5ML Bad Echo	Enchanted Lake	Oahu	
Meshtastic 4c7f	Enchanted Lake	Oahu	
Meshtastic 8454	Enchanted Lake	Oahu	t-echo
WH7GG T-Echo	Enchanted Lake	Oahu	t-echo
Meshtastic 6a44	Ewa	Oahu	
AH6WN RAK Mobile	Ewa Beach	Oahu	rak4631
Atlatvax B2 6894	Ewa Beach	Oahu	rak4631
Ewa by Gentry	Ewa Beach	Oahu	rak4631
GreenRed fF58	Ewa Beach	Oahu	lilygo-tbeam-s3-core
HelGreenBlack 5898	Ewa Beach	Oahu	heltec-v3
Neatcom	Ewa Forest Reserve	Oahu	t-beam
Meshtastic 90b4	Ewa Plains	Oahu	t-beam
Meshtastic 22c9	Haleiwa	Oahu	seed Card Tracker T1000-E
70 Miramiri c20 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
VisaMesh Pocket 718a	Hawaii Kai	Oahu	rak4631
WH6FIX 2	Hickam	Oahu	heltec-v3
K9 43ae	Kahala	Oahu	heltec-v3
KH7EC-R	Kahala	Oahu	rak2560



Tikis.com near Band & Balilar	Kuhio Beach	Oahu	rak4631
SWT1 37A	Kunia	Oahu	tracker-t1000-e
Pensacola mesh 05	Lanikai	Oahu	tracker-t1000-e
WH9EC-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	
Windy	Makakilo	Oahu	seed_wio_tracker_i1
GMK KH6ML Card at Work	Makiki	Oahu	tracker-t1000-e
Meshtastic 59c2	Makiki	Oahu	
T1000	Makiki	Oahu	tracker-t1000-e
KH7TV Echo	Makiki - Roosevelt	Oahu	t-echo
Meshtastic e8cb	Makiki - Roosevelt	Oahu	
NH7T J01	Makiki - Roosevelt	Oahu	t-echo
Basement not monitored 60CD	Makiki Punchbowl	Oahu	heltec-v3
Manoa/Tantalus mk23	Manoa	Oahu	t-beam
NH7T Manoa	Manoa	Oahu	heltec-v3
Upper Manoa - mk23 808	Manoa	Oahu	rak4631
Bradvventure	Maunawili	Oahu	heltec-v3
Pika	Maunawili	Oahu	rak4631
Meshtastic 57f8	MCB1 Kaneohe	Oahu	
Meshtastic d724	MCB1 Kaneohe	Oahu	heltec-v3
Meshtastic 7460	Milliani	Oahu	
Milliani ead0	Milliani	Oahu	heltec-v3
Meshtastic 92b6	Monaula	Oahu	
Meshtastic a211	Nuuanu Valley	Oahu	
keolu kailua bmo	Oliomana	Oahu	heltec-v3
Keolu Kailua bmo	Oliomana	Oahu	heltec-v3
Meshtastic 4b7f	Oliomana	Oahu	
7o Traveling SEED 1edf	Palolo	Oahu	tracker-t1000-e
Howzit	Palolo	Oahu	heltec-v3
Meshtastic 6530	Palolo	Oahu	tiora-v2-1-1p6
Meshtastic 8705	Palolo	Oahu	heltec_mesh_node_t114
SOUTH 20 fbba	Palolo	Oahu	t-echo
TDR fbe0	Palolo	Oahu	t-deck
3028 Mobile	Pearl City	Oahu	heltec-v3
KH6ML Pearl City Fines	Pearl City	Oahu	heltec-v3
HiMesh Project - Aiea	Pearl Harbor	Oahu	station-g2
Meshtastic 1a27	Pearl Harbor	Oahu	rak4631
Meshtastic 259d	Pearl Harbor	Oahu	
Meshtastic 3a1f	Pearl Harbor	Oahu	t-echo
Meshtastic 412c	Pearl Harbor	Oahu	heliyc-v3
Borg 8e34	Pearl Ridge	Oahu	heltec-vision-master-t190
Meshtastic 2bbc	Pearlridge	Oahu	heltec-vision-master-t190
KH6ML mobile T-Echo2	Punchbowl	Oahu	t-echo

Meshtastic 4fa9	Kahala	Oahu	wimshes-tag
Meshtastic f504	Kahala	Oahu	heltec-v3
Mr. Loaf	Kahala	Oahu	t-echo
KH7TV Solar Base	Kahaluu	Oahu	rak4631
MattMobile	Kailua	Oahu	heltec-v3
Meshtastic 86d4	Kailua	Oahu	
Meshtastic c457	Kailua	Oahu	
Meshtastic dfb7	Kailua	Oahu	
Meshtastic e3R0	Kailua	Oahu	heltec-v3
X 23f3	Kailua	Oahu	rak4631
X Solar - Hillside RPTX	Kailua	Oahu	rak4631
	Kaimuki	Oahu	tracker-t1000-e
KH7EC-A	Kaimuki	Oahu	heltec-v3
Kakaako 4678	Kakaako	Oahu	heltec-v3
N1PDG-1	Kakaako	Oahu	heltec-v3
Tik/i's Loft A	Kakaako	Oahu	
Kalaelo	KalaeloA Airport	Oahu	rak4631
Meshtastic e8a7	Kalihi Valley	Oahu	
WH6EGX mobile	Kalihi Valley	Oahu	wimshes_tag
APRS Kaneohe iGate	Kaneohe	Oahu	rak4631
ART1 ECHO	Kaneohe	Oahu	t-echo
Keaalu Repeater	Kaneohe	Oahu	rak4631
KHSML Tracker	Kaneohe	Oahu	seed-wio-tracker-1i
KHSML-e Echo	Kaneohe	Oahu	t-echo
OD4	Kaneohe	Oahu	stagon p2
KH7EH-15	Kaneohe	Oahu	llygon (beam-s3-core
	Kaneohe	Oahu	rak4631
Meshtastic 212c	Kaneohe	Oahu	tracker-t1000-e
Meshtastic 93b0	Kaneohe	Oahu	seed_wio_tracker_1i
Meshtastic d340	Kaneohe	Oahu	tracker-t1000-e
Meshtastic da25	Kaneohe	Oahu	thinknode_M1
Meshtastic f779	Kaneohe	Oahu	seed_wio_tracker_1i
WH6FX6	Kaneohe	Oahu	t-echo
WH6FXV-3-06be	Kaneohe	Oahu	seed_wio_tracker_1i
6M7 Fuschia f647	Kapahulu	Oahu	seed_wio_tracker_1i
Drakemesh	Kapahulu	Oahu	t-echo
Meshtastic 9946	Kapahulu	Oahu	seed_wio_tracker_1i
Meshtastic af74	Kapahulu	Oahu	thinknode_m1
Yuki Mobile Stubby	Kapahulu	Oahu	rak4631
AKSHAY RAK1	Kapolei	Oahu	heltec-v3
KH5CWL flc8	Kapolei	Oahu	
Meshtastic 7c74	Kapolei	Oahu	tracker-t1000-e
Meshtastic d5b0	Kapolei	Oahu	t-echo
KH6ML q T-Echo q	KeaalaU Kaneohe	Oahu	
Meshtastic 4194	Koko Head	Oahu	
302A AIEA Firebase: MESHTASTIC HAWAII	Koolau	Oahu	heltec-v3
302B Mobile	Koolau	Oahu	heltec-v3
Meshtastic 6ba0	Koolau	Oahu	tracker-t1000-e

KaiserT114_23b0	Roosevelt High Makiki	Oahu	heltec-mesh-node-t114
Kakaako 09b8	Roosevelt High Makiki	Oahu	heltec-v3
Hikers Solar PW Manoa	Upper Manoa	Oahu	rak4631
SLH2 c1ab	Upper Palolo	Oahu	t-echo
SLH 9ef2 (mobile)	Upper Palolo	Oahu	t-echo
Traveler 9430	Upper Palolo	Oahu	t-deck
Meshtastic 3e68	Waihiawa	Oahu	
KH7EC-A	Wai'alea Kahala	Oahu	heltec-v3
KH7EC-B	Wai'alea Kahala	Oahu	heltec-v3
KH7EC-H	Wai'alea Kahala	Oahu	heltec-v3
Lofa 6C9 514c	Wai'alea Kahala	Oahu	heltec-v3
Meshtastic b0b6	Wai'alea Kahala	Oahu	heltec-mesh-node-t114
Meshtastic de16	Wai'alea Kahala	Oahu	
sukebe mesh	Wai'alea Kahala	Oahu	t-lora-pager
T Deck Complete	Wai'alea Kahala	Oahu	t-deck
WH6OMG 51d1	Wai'alea Kahala	Oahu	tracker-t1000-e
Meshtastic 0ddc	Wai'alea-Kahala	Oahu	seewd_wio_tracker_11
Meshtastic 1d7c	Wai'alea-Kahala	Oahu	seewd_wio_tracker_11
Meshtastic 8d79	Wai'alea-Kahala	Oahu	seewd_wio_tracker_11
Meshtastic faf9	Wai'alea-Kahala	Oahu	seewd_wio_tracker_11
Sea Dog	Wai'alea-Kahala	Oahu	t-deck
HiMesh Project - Wai'anae	Wai'anae	Oahu	station-g2
D3 310	Waikale	Oahu	heltec-v3
D3 310	Waikale	Oahu	heltec-v3
Cincinnati Mobile Rock	Waikali	Oahu	seewd-wio-tracker-11
Island Andy	Waikali	Oahu	tracker-t1000-e
Meshtastic 05b4	Waikali	Oahu	
Meshtastic 4b27	Waikali	Oahu	
Meshtastic e6d2	Waikali	Oahu	tracker-t1000-e
NH7IT waipuna	Waikali	Oahu	rak4631
ShakataGaNaI/1Pro	Waikali	Oahu	seewd-wio-tracker-11
ShakataGaNaI/WisTag bayme.sh	Waikali	Oahu	wismesh-tag
TakOo_Actual	Waikali	Oahu	tracker-t1000-e
Wallops Mobile	Waikali	Oahu	rak4631
7HO2 Solar	Waimanalo	Oahu	rak4631
BluePanda	Waimanalo	Oahu	heltec-v3
GoldenPanda	Waimanalo	Oahu	heltec-v4
Meshtastic b608	Waimanalo	Oahu	heltec_wireless_paper
Meshtastic c9f0	Waimanalo	Oahu	
Meshtastic o60	Waimanalo	Oahu	
RUS5 b6b6	Waimanalo	Oahu	rak4631
6136_5634	Waimanu Valley Ridge	Oahu	ilgyo-tbeam-s3-core
Meshtastic a26c	Waipahu	Oahu	heltec-v4
Meshtastic ba05	Waipahu	Oahu	seewd-wio-tracker-11
Poi Dog 19f4	Waipahu	Oahu	heltec-mesh-node-t114
Meshtastic 5ccc	Waipahu Uka	Oahu	
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
NH7IT Robot	Oahu	heltec-v3	K5DCE Base	heltec-v3
WH6ECG-15	Oahu	heltec-v3	KA4NGS 157c	heltec-v3
WH6ECG-2	Oahu	heltec-v3	KaliMT	heltec-v3
WH6ECG-5	Oahu	heltec-v3	Karah_WRXM997	tracker-t1000-e
WH6ECG-6	Oahu	heltec-v3	KERNY 3.0	llygo-tbeam-s3-core
WH6ECG-7	Oahu	t-deck	KH6UU 5dd4	heltec-v3
WH6ECG-9	Oahu	t-deck	KH7EC-C	heltec-v3
WH6FXV-Dash	Oahu	t-deck	KH7EH-NWS	heltec-v3
Feds Watcher	unknown	senscap-indicator	KH7TV Beam	llygo-tbeam-s3-core
101 Home Base		t-deck-pro	Kilohana Solar	rak4631
101 mobile		heltec-v3	KL7VE a3af	rak4631
39EC		heltec-v3	KR-IT-RC	tracker-t1000-e
4248 (mobile)		t-deck	Kulamalu 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	senscap-indicator
6C_Pocket_Mesh_10k		heltec-mesh-pocket	LM-UDPTest	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 ab9a	tracker-t1000-e
7o RAK3 6c2c		rak4631	Maxlux Rok Trak	rak4631
a5b8 Frankie		heltec-v3	Meshtastic b6b8	
AAAA 6a36		tracker-t1000-e	Mehtastic Terminal	rak4631
AB4YY-solar		rak4631	Merlin 350	t-deck
AG_Blue_Radio		heltec-v4	Meshtastic 02ce	heltec_mesh_node_t114
AH6WN T-Deck		t-deck	Meshtastic 02f4	t-deck
Alex		heltec-v3	Meshtastic 03ac	
All meshed up		heltec-v4	Meshtastic 04c6	
Astra Hv3		heltec-v3	Meshtastic 04e0	heltec-mesh-node-t114
Atlavox Cape Coral		rak4631	Meshtastic 0506	tracker-t1000-e
Attick Shire		t-beam	Meshtastic 059d	rak4631
AUXC HI		heltec-v3	Meshtastic 0660	
AWiese1		heltec_mesh_node_t114	Meshtastic 06cc	tracker-t1000-e
Backpack_jblack_m		rak4631	Meshtastic 078a	
Battery		heltec-mesh-pocket	Meshtastic 0892	
B88B 7c8f		heltec-v3	Meshtastic 0c70	
bDrifter_01 e023		rak4631	Meshtastic 1476	rak4631
bDrifter_03 d368		heltec-v3	Meshtastic 147a	
Bender 72c0		heltec-v3	Meshtastic 14b9	rak4631
Bird 6fa1		heltec-mesh-pocket	Meshtastic 1598	
bMesh 32c2			Meshtastic 15dc	
bMeshtastic 637c			Meshtastic 16a2	heltec_mesh_pocket
bmo808-1			Meshtastic 197c	
Bombastic			Meshtastic 1d94	
BROVO 3			Meshtastic 2004	
BROVO 4			Meshtastic 2026	rak4631
BRT 88d5			Meshtastic 2048	heltec-v4
Bruh 45d0			Meshtastic 21fc	
BXvln1			Meshtastic 2528	heltec-mesh-node-t114
CA-T1000-E-1			Meshtastic 25e0	
CERT-OL-04			Meshtastic 25f0	station-g2
CERT-OL-8-Orchidland			Meshtastic 2660	
chaps			Meshtastic 276a	rak4631
Chee Hoo			Meshtastic 27c5	rak4631
CMG Car			Meshtastic 2849	t-echo
Coconutwireless CW-A			Meshtastic 298c	
Coconutwireless CW-R			Meshtastic 2ac1	rak4631
CoconutWireless CW-S			Meshtastic 2b24	tiora-v2-1-1p6
COM2-HI			Meshtastic 2990	heltec_v4
COML HI d2f4			Meshtastic 30bc	
comt-5d7c			Meshtastic 3163	heltec-mesh-pocket
CP-Base			Meshtastic 3261	rak4631
Crypto5			Meshtastic 3528	t-echo
D19G			Meshtastic 36f9	rak4631
Dominik			Meshtastic 36f9	rak4631
drivec 4 - SF, UT			Meshtastic 3e68	
Elab b14c			Meshtastic 3f34	
EMCOM ESF-2			Meshtastic 3f68	
ENTM_Peacock			Meshtastic 3998	
ESF2M 739c			Meshtastic 4294	
F2G1			Meshtastic 4398	t-beam
FPR.RWMP			Meshtastic 4533	
Frogstrap c5c5			Meshtastic 4ac0	rak4631
GeneBean Office 01			Meshtastic 4b1d	t-deck
GGGG 1fb0			Meshtastic 4cb3	
gogo			Meshtastic 4d45	rak4631
GreenGuy			Meshtastic 5073	rak4631
Gz22_6d5b			Meshtastic 515c	
Harbor Breeze 01			Meshtastic 54e4	
HAVERLY01			Meshtastic 556c	
Hawalimeshmp			Meshtastic 583c8	heltec-v3
HBMC-R			Meshtastic 5890	
Helix-Heltec-V4			Meshtastic 5cfc	heltec-v3
HeritageLink			Meshtastic 5dd6	
icebear			Meshtastic 6190	
Inoculation			Meshtastic 61d4	rak4631
Iron Giant			Meshtastic 63cd	rak4631



Hawaii Meshtastic listing continues

Meshtastic 6615	tracker-t1000-e	MiMobile	lilygo-tbeam-s3-core
Meshtastic 67b0	rak4631	Mkk8	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 ce65	rak4631
Meshtastic 6e34		MLE_Net_e66f	rak4631
Meshtastic 7060	rak4631	Mloa-H Test	heltec-v3
Meshtastic 7280	t-beam	Mobile fda0	heltec-v4
Meshtastic 72fc	heltec-v3	Mobiud T1000-E	tracker-t1000-e
Meshtastic 74b0		Molokai MPS MOD6 19d	rak4631
Meshtastic 78a3		Monkey 8044	rak4631
Meshtastic 7afc		msunset	t-deck
Meshtastic 7b94	t-beam	MT3	dora-v2-1-1p6
Meshtastic 7bd8	heltec-v3	Muzi-R1-Rover	muzi_r1_neo
Meshtastic 7c78	dora-v2-1-1p6	NEEZ	heltec-v3
Meshtastic 7d14	rak4631	Neshtastic a078	heltec-v3
Meshtastic 7fc4		Nibbler 8de4	heltec-v3
Meshtastic 8148		Node Collector EDC Muzi	rak4631
Meshtastic 83f4		NorthRWest 2	
Meshtastic 87d5		NorthRWest Base	heltec-v3
Meshtastic 8824	heltec-v3	Norwood-Online	heltec-v3
Meshtastic 8cb8		Nurse Dude NOC	portduino
Meshtastic 8f3c		ORCA Hapuna	rak4631
Meshtastic 8fd1		ORCA T1000e	tracker-t1000-e
Meshtastic 90dc	heltec-v3	ORCA Tdeck Plus (mobile)	t-deck
Meshtastic 92c4		ORCA Westside	rak4631
Meshtastic 9468		Orcatdeck	t-deck
Meshtastic 94b8		Paper c244	heltec-wireless-paper
Meshtastic 9650		PatchrZero Prime	heltec-wsl-v3
Meshtastic 97a7	heltec-v3	Patti	rak4631
Meshtastic 9940	rak4631	Pher Mobile	tracker-t1000-e
Meshtastic 9c61	heltec-v3	pi3-30db-echo	portduino
Meshtastic 9fbc		pi3a-cd98	portduino
Meshtastic a096		PI5-waveshare bfc2	portduino
Meshtastic a0aa	heltec-wireless-tracker	pi-zero-22db alpha	portduino
Meshtastic a304		pi-zeroW-delta	portduino
Meshtastic a4f4	heltec-v3	Plantation Harbor 6da3	heltec_mesh_node_t114
Meshtastic a4b8	heltec-v3	Plantation Harbor eed6	heltec_mesh_node_t114
Meshtastic a5dc		RAK Solar KOKO	rak4631
Meshtastic a8ca		Rook Pro	
Meshtastic a978	heltec-v3	Rookery CAW1	t-echo
Meshtastic aa80	rak4631	Rookland	t-echo
Meshtastic abcb		Scooby Doo	heltec-v3
Meshtastic ade8		Sen1	tracker-t1000-e
Meshtastic aec7	heltec-v3	SenseCap_02	tracker-t1000-e
Meshtastic b468		SKW1	heltec-v3
Meshtastic b6fd	heltec-v3	Small Kine Lolo Papolo	tracker-t1000-e
Meshtastic b7dc	tracker-t1000-e	solar block	rak4631
Meshtastic b8ac	tracker-t1000-e	Solar DannyK	rak4631
Meshtastic b9c9		Solar Oscar	rak4631
Meshtastic b9f9	heltec-v3	Solar Snake 01	rak4631
Meshtastic bac7	heltec-v3	SolarBaker	heltec-mesh-mode-t114
Meshtastic be24	heltec-v3	SOTU	rak4631
Meshtastic be90	heltec-v3	Station G2	station-g2
Meshtastic c008		Sugoi Mesh R1	rak4631
Meshtastic c0f0	heltec-v3	Sukebe mobile	heltec-v3
Meshtastic ca28	rak4631	SunMesh 915a	heltec-v3
Meshtastic cc44	heltec-v3	T_Beam_S_986c	lilygo-tbeam-s3-core
Meshtastic cd50		T-Beam Beta	t-beam
Meshtastic ce9e	heltec_mesh_node_t114	T-Beam Gamma	t-beam
Meshtastic d145	tracker-t1000-e	t-beam S3 49e8	t-beam
Meshtastic d403	heltec-v3	Tbird TT01	heltec-v3
Meshtastic d514		tdeck forrestk3	t-deck
Meshtastic d904		T-Echo a912	t-echo
Meshtastic d958		T-Echo c7a3	t-echo
Meshtastic da82	t-deck	Tiny Solar (Williams Crossroads)	xiao-nrf52-kit
Meshtastic db70	heltec-v3	TK_Heltec_V3	heltec-v3
Meshtastic defc	heltec-v3	TRE1 9502	rak4631
Meshtastic dfc8	heltec-v3	Uconsole	portduino
Meshtastic e110	t-deck	VERT Deputy Planning Chief	tracker-t1000-e
Meshtastic e128 (mobile)		VERT Fire Dept Liaison	tracker-t1000-e
Meshtastic e214	t-deck	VERT Medical Unit Lead	tracker-t1000-e
Meshtastic e4d4		VERT-01	heltec-v3
Meshtastic e9f0		Vogon Poetry	rak4631
Meshtastic f310	t-deck	W4 Solar 0b3d	heltec-v3
Meshtastic f6b4	station-g2	Wah_Phku_1	heltec-v3
Meshtastic f728	heltec-v3	Warbird Pocket	rak4631
Meshtastic f7c4	heltec-v3	WH6ECG-34 Heeia	heltec_mesh_node_t114
Meshtastic f830	heltec-v3	WH6ECG-37 Heeia	heltec_mesh_mode_t114
Meshtastic f8d0		WH6FIX 1	heltec-v3
Meshtastic f8f0		WH6FXV-0	heltec-v3
Meshtastic f934	heltec-v3	WH6FXV-1 000c	heltec-v3
Meshtastic f954		WH6GEJ RAK2	rak4631
Meshtastic fb9c	xiao-nrf52-kit	WH6GIY Mobile	rak4631
Meshtastic fbaf		WH6GIY Palasades Roo	rak4631
Meshtastic fc73		WH6GP2-2	heltec-v3
Meshtastic fe05	heltec-v3	WH6OMG solar 1	heltec-v3
Meshtastic fe54	heltec-v3	WH6OMG Solar 2	rak4631
Meshtastic d0d0	muzi_r1_neo	WH7PD_DragonHawk	heltec-v3
Millie dc60		Whisper Node 3	heltec-v3
		WS85	rak4631
		WYK7 TC2-BBS-Mesh CMD B	heltec-v3
		X Solar	rak4631
		X Tdeck	t-deck
		zhu Se08	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.