



October 2025

# THE BIG ISLAND HAMGRAM

The newsletter of the Big Island Amateur Radio Club



Kokua from all amateur licensees — ARRL members or not — is needed to help secure antenna rights for all

ARRL needs every radio amateur in the United States to send letters to Washington as we continue our nationwide grassroots campaign to pass the Amateur Radio Emergency Preparedness Act (H.R. 1094 / S. 459) to secure antenna rights.

The process is simple: go to [www.arrl.org/HOA](http://www.arrl.org/HOA), put in your call sign, and press the red SEND MY LETTERS button. It takes mere seconds!

The letters will automatically be sent to your elected officials encouraging them to support the bipartisan bills.

*Continued on Page 7*

## GRID MADNESS



Luke WH6GRW shared this photo of his "backpack mobile" station employed on Mauna Loa for Grid Madness. He reported: "A lot of blue sky, a lot of RF!" (Oct. 12 is the deadline for individual reports to be filed, so check the November Hamgram for official results. More photos and info from hams active in the Sept. 28 event follow on Pages 2-4 in this edition of the newsletter.)

## KH6KU shows how it's done



*Roy Kunishige, KH6KU, gives a mini clinic on how to set up and operate the club's Yaesu 991 radio. The September demo was part two of the club's program encouraging Technician licensees to enjoy their 10-meter high frequency capabilities.*

## November club session will be second of our two yearly membership meetings

The annual election of board members will be held during the second general membership business meeting of the year from 2-5 p.m. on Sunday, Nov. 9 at Kamana Senior Center.

Members are encouraged to join in the discussion and voting on various items.

What would you like your club to do for you, and what would you like to do for your club?

Think about serving as a director on the BIARC Executive Board. Or sign up to be on a committee.

Plans for November's deci-

sion-making meeting will be discussed at the Oct. 12 regular session, also from 2-5 p.m. at the center, which is located at 127 Kamana St. in Hilo.

The link to participate online is at [biarc.net](http://biarc.net).

Details will be published in the November Hamgram.

Also in the works: Planning for the annual holiday party. This year's event will be from 12:30 to 5 p.m., on Sunday, Dec. 14, with set-up starting at noon.

Details of the holiday party also will be included in the November Hamgram.

Stay tuned.



## Grid Madness in action

**KH6CP,  
North Shore, O'ahu**

**... reports  
from the  
field**

**Craig KH6CP**  
From the North Shore  
of O'ahu

Given that the island chain is from the Pacific tectonic plate scooting over a magma hotspot it's difficult to find an accessible place on O'ahu to "see" the east profile of Kaua'i. One spot is BL01wo at about 420 feet above sea level.

It wasn't visible.

I used three mobile rigs, a Kenwood TM-D710a, a Yaesu FTM-300d, a Bridgecomm 220, and a handheld Kenwood TM-D74a during the contest.

**Antennas:** CompacTenna 2M/440+ (skinny black cylinder on the far side of the car) and a Comet Triband on the center of the roof. I also have a CompacTenna 220Max for the Bridgecomm.

The FTM-300d was my

"main" mobile rig with its head unit mounted on the AC vent. It was also beaconing my APRS position during travel.

At BL01wo I could barely hear one transmission, presumably from Kaua'i at about 1:10 PM on 146.52. My transmissions on 146.50 and 446.000 were unanswered.

I then drove an hour and 15 minutes to BL11dh with a majestic view of Maui.

(The image is contrast-enhanced so you can see Moloka'i and Maui.)

Nothing was heard from Maui in the half hour I was there.

My final 2 contacts were from Tantalus BL11ch (in the light rain) with the Kenwood TH-D74a, both (70cm and 1.25m) with Maui at 5 watts.

Thanks for managing Grid Madness!

Craig/KH6CP, O'ahu



**AD6E / KH6TU**  
**Maui**

*At the last minute, I decided to take my HB ground plane 2 meter antenna that normally is in use in a closet, and put it on a 25ft bamboo pole outside. It works fine.*

73, Alan AD6E / KH6TU

*"Overall this year was a ton of fun, and I hope there are as many folks on the air again next year, so I can continue increasing my contacted grids list."*  
Aloha, Luke WH6GRW

## An early look at Grid Madness action

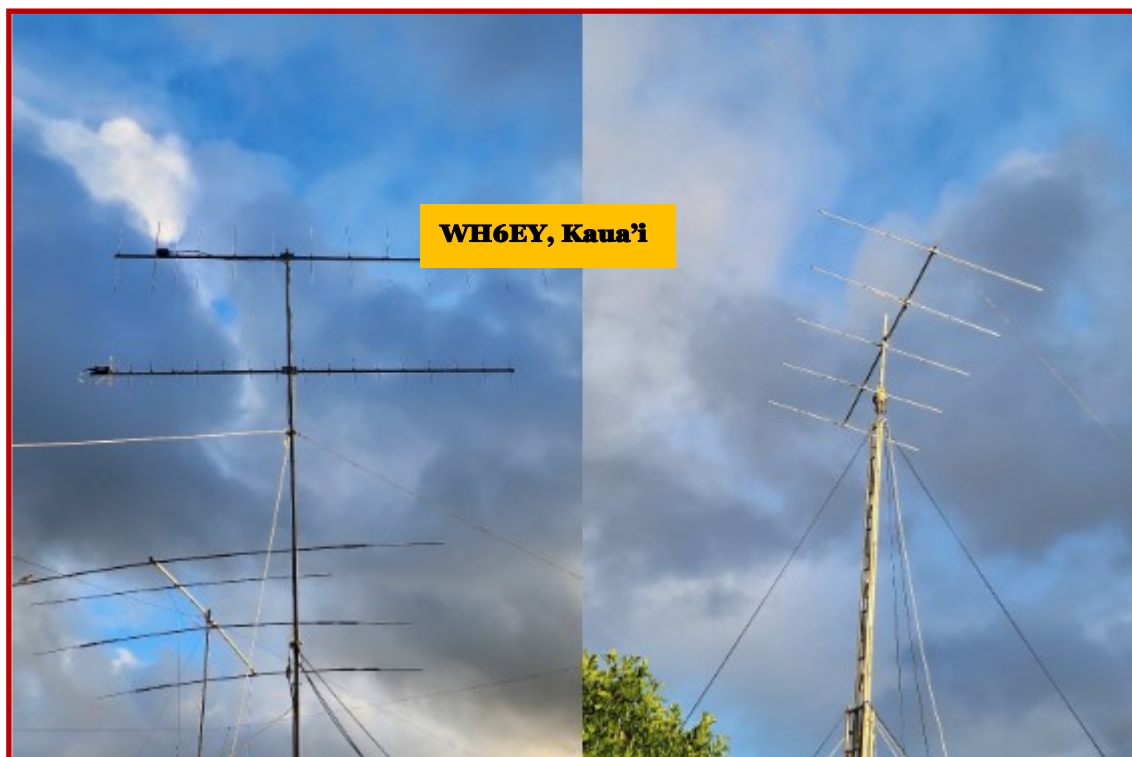
As of Sunday, Oct 5, Grid Madness coordinators had the following statistics to report:

--- 20 operator report log submissions (9 from Big Island. 1 from Kauai, 4 from Oahu, and 6 from Maui).

--- Classes: 11 Base, 5 mobiles, 4 portables.

--- Clubs: 7 BIARC, 3 MARC, 2 EARC, 1 Koolau ARC, 1 Big Island Radio Club

The final results will be reported in the November Hamgram.



John, WH6EY, Kaua'i

Aloha everyone, Much Mahalo for a great Grid Madness event this year. Big Mahalo to everyone behind the scenes that make this event happen. For me, 2m was the only band I could hear anyone from here on the Eastside of Kauai, up in Wailua Homesteads. Could not hear anyone on 70cm or 6m.

A special Mahalo to Bryan, KH6LOL, besides the direct contact with him, he helped me with 10 relay contacts from stations on Oahu, Maui and Big Island, a super big help as I could just barely hear some of them. He took relay requests from some stations and hustled up others to make contact with me. Really appreciate that. Also made direct contact again with Robert, KH6FX, he was my first long distance VHF contact in the 2021 Grid Madness, great to repeat that again this year. At the end, total of 2 direct contacts with stations on Haleakala, and 10 relay contacts using KH6LOL.

Conditions were crazy most of the day, at one moment I was hearing Bryan, KH6LOL S8 almost full quieting, then listen to him fade off into the noise and not

hear him for about 10 or 15 minutes, then he'd gradually come up in signal strength only to disappear again. Lost a couple of relays at different times when that happened. But it was all good, I was also able to hit Robert, KH7FX direct as well, he was my best long distance contact in 2021, my first GM. All in all, I ended up with 12 contacts total on 2m, 2 where direct contacts and 10 were relays thru Bryan, KH6LOL.

Radio on this end is an Icom IC-9700, antennas were a Cushcraft 13B2 and a Cushcraft A179B at about 25 feet above my roof. In the background is a Cushcraft A4S tribander at 30 feet. Those three antennas were bought used back in the early '90s and still going strong. For 6m, the antenna is a Cushcraft A50S-5 at 34 feet (this one is only 10 years old), I use it with my Icom IC-7300. I did order a new 1.25m radio so I'll be on that band as well next time. Thanks again to Bryan, KH6LOL for the radio recommendation.

Much Mahalo again everyone, look forward to the next, 73 and Aloha from Wailua Homesteads on the Eastside of Kauai, 73 and Aloha John, WH6EY



**Bryan KH6LOL via groups.io**

To: GridMadness@groups.io

Some photos of the location where I set up with a couple of other operators.



**KH6LOL, O'ahu**

**Grid Madness relay facilitator  
extraordinaire (See article by  
WH6EY on Page 3)**

## 5W and a homemade antenna

Mark, WH6HEO, on Hawai'i  
Island snapped this  
"gearshot" of his Grid Mad-  
ness equipment: "5W and a  
homemade antenna, on a  
fishing pole, bolted on some  
shooting legs."



# Hams Needed to Track NASA Moon Mission

The National Aeronautics and Space Administration (NASA) is seeking volunteers to passively track the 2026 Artemis II Orion spacecraft as the crewed mission travels to the Moon and back to Earth.

The Artemis II test flight will send NASA astronauts Reid Wiseman, KF5LKT; Victor Glover, KI5BKC; and Christina Koch, along with Canadian Space Agency (CSA) astronaut Jeremy Hansen, KF5LKU, on an approximately 10-day mission around the Moon.

Targeted for no later than April 2026, the mission will rely on NASA's Near Space Network and Deep Space Network for primary communications and tracking support throughout its launch, orbit, and reentry. However, with a growing focus on commercialization, NASA wants to further understand industry's tracking capabilities.

This collaboration opportunity builds upon a previous request released by NASA's Space Communication and Navigation Program (SCaN) during the Artemis I mission in 2022. Ten volunteers successfully tracked the uncrewed Orion spacecraft on its journey thousands of miles beyond the Moon and back.

One of those volunteers tracking in 2022 was Scott Chapman, K4KDR, of Montpelier, Virginia. "Sometimes it's what you don't know that makes this kind activity interesting," said Chapman. "All I had was a small S-band dish and receiver and wasn't sure what I could or couldn't hear...but when I started hearing the signals...it made everything worth it."

Chapman said he felt good about the whole process and, while it was interesting, it was also lot of fun!

There were also other participants during the Artemis I mission, including international space agencies, academic institutions, commercial companies, nonprofits, and private citizens who were also attempting to receive Orion's signals.

Chapman added that NASA is also looking for commercial partnerships to share in the process.

If you're interested in volunteering for next year's event, all of the information can be found at [SAM.gov](https://sam.gov). The response deadline is October 27, 2025, at 5:00 PM EDT.



*KH6CZ photo*  
Joe Rosenbaum, WH6JOE, was the master of the microphone at Waiakea Elementary on Oct. 1. The Big Island Amateur Radio Club is one of the regulars in a collection of community organizations who help with the Hawaii Science and Technology Museum's outreach to schools.

## BIARC volunteers share wonders of ham radio at school 'science nights'

The BIARC Education and Outreach Committee was in action again at Waiakea Elementary School on October 1, in partnership with the Hawaii Science and Technology Museum's outreach to schools in East Hawaii.

Joe Rosenbaum, WH6JOE, Jim Tatar, WH6EMN, and David Miller, KH6CZ, were on site at the school. Anchoring our presence on air was Leigh Critchlow, WH6LC, while Joe was the master of the microphone at Waiakea Elementary.

Such volunteer outreach efforts are tangible assets to BIARC in spreading the word about ham radio to our youth, while the presence of parents and teachers continually reinforces that message.

A picture of Joe, in action, is attached.

Thanks to Jim Tatar for his support and for providing his complement of FRS radios for student use. Always a great hit.

The schedule for the 2025-2026 school year is as follows.

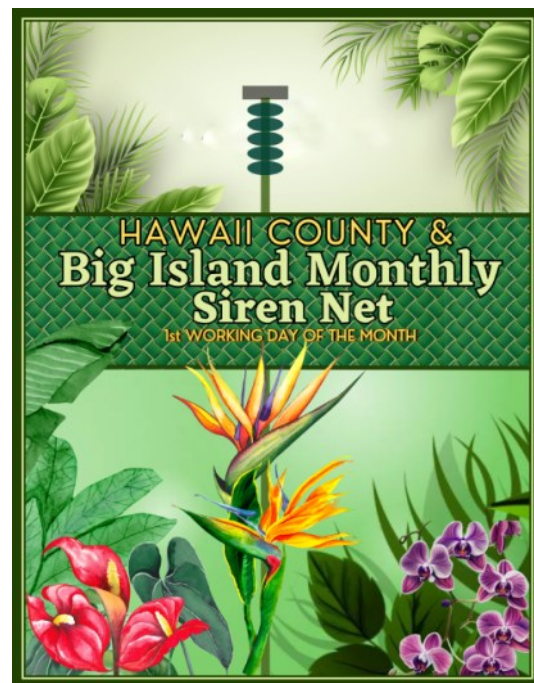
Keaau Elementary.....Tuesday 8/19/2025 4:30-6:00  
EB de Silva Elementary..... Wednesday 9/10/2025 5:00-7:00  
Waiakea Elementary..... Wednesday 10/1/2025 5:00-6:30  
Waiakeawaena Elementary.....Friday 11/14/2025 5:00-7:00  
Kaumana Elementary..... Wednesday 2/4/2026 5:00-6:30  
Hilo Union Elementary ..... Wednesday 3/4/2026 5:00-7:00  
Keonepoko Elementary.....most likely the beginning of May  
Naalehu Elementary.....date unknown at this time; during school hours  
Ka'u Elementary/Middle/High....date unknown at this time; during school hours  
Next up is Waiakeawaena in November.

*73, David Miller, KH6CZ*

# Hawaii County Siren Report for October 2025

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

| Location                            | Observer | Mode      | Status      | Notes                  |
|-------------------------------------|----------|-----------|-------------|------------------------|
| <b>NOT WORKING</b>                  |          |           |             |                        |
| Ainaloa (HA910)                     | WH6DVI   | Mauna Kea | Not Working |                        |
| HOVE Shopping Center #1 Kuhio Blvd  | WH6EIX   | DMR       | Not Working | car accident           |
| Kehana Beach (HA916)                | KH6AQ    | Text      | Not Working |                        |
| Kolekole (HA112)                    | KH6RDO   | Allstar   | Not Working | only rotates, no sound |
| Ainaloa (HA910)                     | WH6HAF   | Allstar   | Not Working |                        |
| <b>WORKING</b>                      |          |           |             |                        |
| Ainako Park (HA117)                 | WH6FSA   | Mauna Kea | Working     |                        |
| Banyan / Kam (HA104)                | KH6ATU   | Allstar   | Working     |                        |
| Captain Cook (HA702)                | WH6WF    | Text      | Working     |                        |
| Carvalho Park (HA114)               | NH6WT    | DMR       | Working     |                        |
| Cooper Center Volcano (HA936)       | KH7DQ    | Mauna Kea | Working     |                        |
| Downtown Federal Bldg (HA107)       | WH6HBH   | Allstar   | Working     |                        |
| Hakalau (HA113)                     | WH6ECX   | Allstar   | Working     |                        |
| Hawaiian Beaches #2 Wela St (HA911) | NH7PE    | Text      | Working     |                        |
| Hawaiian Beaches Park #1 (HA907)    | KH7LM    | Mauna Kea | Working     |                        |
| Honolulu (HA111)                    | KH6RDO   | Allstar   | Working     |                        |
| HOVE Reef Blvd #3 (HA809)           | WH6FC    | DMR       | Working     |                        |
| HOVE, #1 Leilani (HA805)            | WH6GYC   | DMR       | Working     |                        |
| HPP #1 Paradise / Ala Kai (HA925)   | KH6CZ    | Mauna Kea | Working     |                        |
| HPP #3 6th & Makuu (HA913)          | NH6OV    | Mauna Kea | Working     |                        |
| Kaumana School (HA125)              | KH7BR    | Email     | Working     |                        |
| Kawaihae Harbor (HA407)             | WH6EHJ   | Mauna Kea | Working     |                        |
| Lanikaula (HA106)                   | KH7MS    | DMR       | Working     |                        |
| Laupahoehoe Point (HA202)           | WH6FSI   | Allstar   | Working     |                        |
| Leleiwi (HA101)                     | KI6HBZ   | Allstar   | Working     |                        |
| Naalehu (HA801)                     | WH6HC    | DMR       | Working     |                        |
| NELHA Kona (HA611)                  | WH6GTD   | Allstar   | Working     |                        |
| Ookala (HA304)                      | WH6GDC   | Allstar   | Working     |                        |
| Paauilo (HA301)                     | AH6JA    | Email     | Working     |                        |
| Pahala (HA804)                      | WH7BR    | Allstar   | Working     |                        |
| Palani / Kuakini Kona (HA601)       | NH6SP    | Email     | Working     |                        |
| Paukaa (HA115)                      | AH6JA    | Email     | Working     |                        |
| Puako General Store #1 (HA405)      | WH6EHJ   | Mauna Kea | Working     |                        |
| State Building (HA116)              | WH6FDE   | Email     | Working     |                        |
| Waa Waa (HA937)                     | NH7PE    | Text      | Working     |                        |
| Waiaka Bridge Kamuela (HA402)       | WH6EHJ   | Mauna Kea | Working     |                        |
| Waikamalo Park Ninole (HA123)       | WH6FIQ   | Allstar   | Working     |                        |
| Waimea Park Kamuela (HA401)         | WH6EHJ   | Mauna Kea | Working     |                        |
| Mohouli Park (HA120)                | WH6GNK   | Email     | Working     |                        |
| Waiohinu Park Naalehu (HA )         | KH6HA    | DMR       | Working     |                        |



The BIARC channel on  
 Youtube is: [https://  
 www.youtube.com/  
 @BigIslandAmateurRadio-  
 Club](https://www.youtube.com/@BigIslandAmateurRadio-Club)

## Help eliminate HOA restrictions on ham radio antennas

This legislation is intended to prevent restrictive homeowners' association (HOA) rules that currently prohibit or severely limit the installation of amateur radio antennas. Passage would give amateur radio operators the same rights to install antennas on their property as those enjoyed by users of TV antennas, wireless internet, and flagpoles.

### Spreading the Word

ARRL CEO David Minster, NA2AA, [was the guest on the Ham Radio Crash Course YouTube channel](#). Host Josh Nass, K16NAZ, talked with Minster for 45 minutes about this important letter writing campaign.

ARRL West Gulf Division Director John Robert Stratton, N5AUS, shared insight into the importance of getting every ham to send a letter on the W5KUB Amateur Radio Roundtable podcast with Brett Glass, WY7BG, and Glen Popiel, KW5GP. See that discussion [on YouTube](#), listen to it [on Podbean](#), or view it [on Facebook](#).

"You don't have a be a member," said Stratton. "Any amateur radio operator in or out of an HOA should go to the website." Go to [www.arrl.org/HOA](http://www.arrl.org/HOA).

ARRL is also encouraging radio clubs to provide letters of support, and is urging each club officer to sign the letters. [There are instructions for clubs on how to complete the letter \[PDF\]](#) and [a sample letter that each club can customize with their information \[DOCX\]](#).

Send your letters now.

Here's an updated link to get on the BIARC Discord server. The old one had expired.

<https://discord.gg/U3f9wsrj>



## Veterans Day Parade kokua

### 4 more ham volunteers needed to help at start

Aloha: I still need a few volunteers on Saturday Nov 8th from 8:00-11:00AM to line up and start the various groups in the parade.

There will be about 80 groups, and we need 4 more radio people to help. Parking will be available either at the Wailoa Center or in the public stalls of the County and State buildings on Aupuni St. If we have enough radio operators we can use our own HT radios on a simplex frequency. Or we will be on provided walkie talkies.

I will have a sign-up sheet at the upcoming meeting for those who will help.

Or email me at [james.tatar@yahoo.com](mailto:james.tatar@yahoo.com)

Each group will have an assigned place in the parade so people may need help getting to their group, and we need them to leave on time to keep the parade orderly.

Mahalo,  
Jim Tatar  
808 960-1545

## BIARC Executive Board

Thomas Avila, KH6GG, was re-elected club president at the January BIARC Executive Board meeting. Others on the 2025 leadership team are Vice President David Miller, KH6CZ, Secretary Joseph Rosenbaum, WH6JOE, and Treasurer Tony Kitchen, WH6DVI.

The seven-member board also includes two at-large directors, Mark Watanabe, WH6FSA, and Shawn Farley, WH6GXZ, and our KH6EJ station trustee, William Polhemus, NH6ET.

Members of the club are encouraged to get involved at a committee level on one or more of the BIARC standing committees. There are many ways to help, and the committee activities vary widely.

As NH6ET noted, the committee level is where things happen. And the committees need "boots on the ground." So, if you see a committee focus that interests you, hop aboard.

Here are the committees:

Digital Systems: Luke McKay WH6GRW(Chair), Gary Schwiter WH6EPS, Shawn Farley WH6GXZ, Trevor Manago KH6IM and Jason Estrella WH6GZZ

Education and Outreach: David Miller KH6CZ(Chair), Joe Rosenbaum WH6JOE, Mark Watanabe WH6FSA, Fred Fischer WH6HAA, Jim Tatar WH6EMN, Leigh Critchlow WH6LC, Les Hittner K0BAD

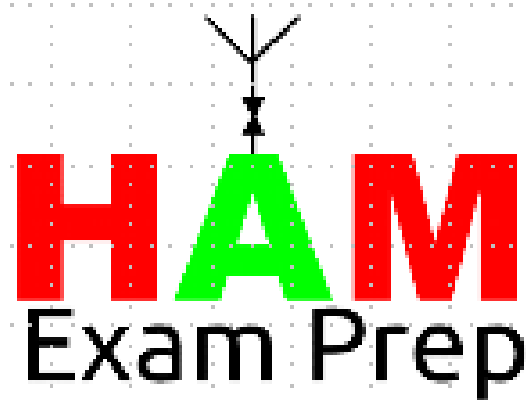
Operating Activities: Joseph Rosenbaum WH6JOE(Chair), John Bush KH6DLK, Tony Kitchen WH6DVI

Programs: William Polhemus NH6ET (Chair), Joseph Rosenbaum WH6JOE  
Public Service Communications: Les Hittner K0BAD(chair), Jim Tatar WH6EMN

Voice Repeaters: Trevor Manago KH6IM(chair), Gary Schwiter WH6EPS, William Polhemus NH6ET, Joe Rosenbaum WH6JOE, Steve Brown KH6SB, Stefan Pommerenk NH6SP, Shawn Farley WH6GXZ, Luke McKay WH6GRW, Frank Roff KH6BFD

Meeting refreshments: Chair Jim Tatar, WH6EMN

The BIARC board meets at noon on the second Sunday of each month, followed by the 2 p.m. monthly membership program, at Kamana Senior Center in Hilo. All members are welcome at both sessions, and the meetings are accessible live via the Internet. Find the links on our website, [biarc.net](http://biarc.net).



## 2025 Technician License Preparation Classes

The next Technician License Preparation classes have been scheduled for November and December, says Doug Wilson (KH7DQ). Two classes will be offered. One will be held over a six-week period via Zoom, and the other will be an accelerated in-person version. Both classes are free except for the \$15 exam fee at the end of each class.

### Technician License Preparation Class via Zoom – November 12, 2025 to December 17, 2025 (6 weeks)

This class will be conducted twice-a-week for an hour each, over a six-week period via Zoom. Instructors will cover all of the questions in the Technician License question pool, explain each question-and-answer, and answer student questions. All materials will be provided, including all of the questions in the question pool and additional study materials and related references.

### Accelerated Technician License preparation – December 20 & 21, 2025 (2 days)

This 2-day in-person course is *not for the faint of heart*. It requires students to do considerable self-preparation work prior to the 2-day class. This includes taking multiple practice exams on-line, prior to the 2-day concentrated class sessions and/or studying the ARRL Ham Radio License Manual 5th Edition, which can be purchased on line at: <https://home.arrl.org/action/Store/Product-Details/productId/2003373064>. During the in-person class sessions, the instructors will review all of the questions in the Technician License question pool, explain each question-and-answer, and respond to student questions. This will be followed by a review of the presented materials prior to taking the exam on the second day.

Please contact Doug Wilson at [douscelle@aol.com](mailto:douscelle@aol.com) to sign-up for either or both classes.

# BIARC Operating Statement

|                                 | 2025 Budget              | Actual 9/13/25*          |
|---------------------------------|--------------------------|--------------------------|
| <b>Income:</b>                  |                          |                          |
| Dues                            | \$1,300.00               | \$1,395.00               |
| Repeater and general Donations  | \$100.00                 | \$103.71                 |
| Humanitarian Donations          | \$100.00                 | \$0.00                   |
| PayPal Convenience Fees         | \$26.00                  | \$40.61                  |
| <b>Total Income</b>             | <b><u>\$1,826.00</u></b> | <b><u>\$1,839.25</u></b> |
| <b>Disbursements:</b>           |                          |                          |
| <b>Committees</b>               |                          |                          |
| Digital Systems                 | 0**                      | \$333.15                 |
| Education & Outreach            | \$75.00                  | \$0.00                   |
| Operating Activities            | \$400.00                 | \$117.78                 |
| Programs                        | \$100.00                 | \$0.00                   |
| Public Service Communications   | \$0.00                   | \$0.00                   |
| Voice Repeaters                 | 0**                      | \$0.00                   |
| <b>Club Administration</b>      |                          |                          |
| Club Liability Insurance        | \$220.00                 | \$200.00                 |
| Club Equipment Insurance        | \$220.00                 | \$0.00                   |
| Equipment                       | \$400.00                 | \$87.75                  |
| P. O. Box Fee                   | \$280.00                 | \$296.00                 |
| Humanitarian Awards             | \$0.00                   | \$0.00                   |
| Office Supplies/Bank Fees/Misc. | \$10.00                  | \$0.00                   |
| Online Services                 | \$175.00                 | \$226.68                 |
| Paypal Transaction Fees         | \$46.00                  | \$20.13                  |
| <b>Total Expenses</b>           | <b><u>\$1,926.00</u></b> | <b><u>\$1,281.39</u></b> |
| <b>Net (Income - Expenses)</b>  |                          | <b>\$557.86</b>          |
| <b>Account Balances:</b>        |                          |                          |
|                                 | as of: 9/13/25           |                          |
| BOH checking Account            |                          | \$4,552.09               |
| Namedcheap Balance (Website)    |                          | \$1.00                   |
| Paypal Account Balance          |                          | \$1,375.49               |
| <b>Total</b>                    |                          | <b>\$5,928.58</b>        |
| <b>Fund Balances: (8/9/25)</b>  |                          |                          |
| Infrastructure fund             | \$3,106.04               |                          |
| Humanitarian Fund               | \$467.00                 |                          |
| Emergency Reserves              | \$1,000.00               |                          |
| General Fund                    | \$1,355.54               |                          |
| <b>Total Funds</b>              | <b><u>\$5,928.58</u></b> |                          |

\* Income figures show dues and donations received for the 2025 dues year.

\*\* 2025 Voice Repeaters & Digital Systems Projects will be funded from the Infrastructure Fund  
(Per Motion at February 15th Board Meeting)

# BIARC Executive Board meeting minutes

*Draft Copy. Subject to Executive Board approval at the next scheduled meeting.*

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## **BIARC Executive Board Regular Meeting September 14, 2025 Kamana Senior Center**

The meeting was called to order at 12:04 p.m. by Board president Thomas Avila. A quorum of 6 board members were present.

### **Attendance:**

- Board members: Thomas Avila, David Miller, Tony Kitchen, William Polhemus, Shawn Farley and Joseph Rosenbaum

### **Secretary's Report and Minutes:**

David moved and Thomas seconded to approve the August 2025 Secretary's report. Motion passed.

### **Treasurer's Report:**

See attached. William moved and Joe seconded to approve the Treasurer's report, subject to audit. Motion passed.

### **Committee Reports:**

#### **Digital Systems:**

- Nothing new to report.

#### **Education and Outreach:**

- See attached.

#### **Operating Activities:**

- Secured venue(Kamana Senior Center) and permission to use an antenna on their property for the CQWW(<https://cqww.com/>) contest on October 25, 2025 from 9 a.m. to 5 p.m.

### **Programs:**

- The September member activity will be on 10 meters for technicians part 2. October's program is to be announced at a later date. The semi-annual meeting and elections will be held at the November 9, 2025 meeting. Three board positions need to be filled. December 12, 2025 is the holiday party, which will be pot luck.
- Discussion was held on the election and membership meeting.

### **Public Service Communications:**

- Nothing new to report.

### **Voice Repeaters:**

The state(which dept.?) has sponsored BIARC to install a microwave hop from Kulani Cone to the Pepe'ekeo repeater site. We are waiting for approval from the Hawaii County Civil Defense Agency. William is working with the state for an

alternate backhaul between the Kulani Cone and Mauna Loa repeater sites.

### **Old Business:**

- The tripod for the ATas 120A antenna has been ordered. Tony moved and Shawn seconded to adjust the allocation to \$650 for a club laptop computer. Motion passed. Discussion was held on accounting for the laptop and the decision was made to put it under club administration equipment.

### **New Business:**

- Discussion was held on the BIARC flyer point of contact. The decision was made to use the [biarc.board@gmail.com](mailto:biarc.board@gmail.com) email address for that purpose as all board members will have access to it.

*Continued on next page*

### *From previous page*

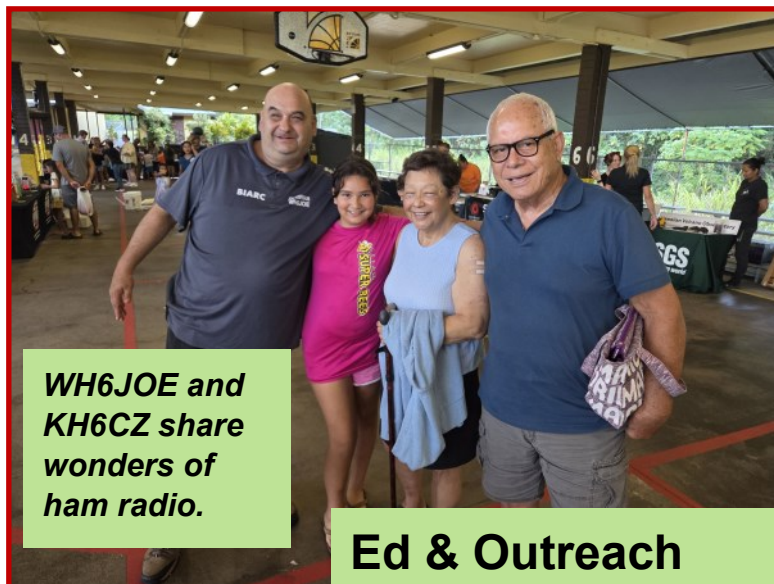
- Discussion was held on digital systems using AREDN, AllStar, Hamvoip, Meshtastic, etc. There is a new AllStar tech net on the 2nd Tuesday of every month at 7 p.m. More participation is wanted in digital communications.
- Discussion was held on the club insurance policy. We have a two million dollar aggregate liability insurance policy. We are always covered and can request a certificate of insurance which is individualized proof of insurance to meet the other party's requirements. We have an ARRL club policy underwritten by Risk Strategies, Inc. The cost per year is \$200.
- Joe moved and William seconded to approve a budget of \$200 for sundry items at the CQWW event. Motion passed.
- William asked for and received permission to ask local business owner(s) to sponsor club activities at a discount, such as ice and other related items.
- Discussion was held on out-of-pocket expenses and reimbursement for club activities. The decision was made that a receipt or detailed email with expenses would be required for reimbursement. Tony motioned and Shawn seconded to allow up to \$50 per occurrence for reimbursement of incidental expenses, subject to committee budget cap. Motion passed.
- The decision was made to pay for printing costs at or below commercial rates.

Thomas moved and Tony seconded to adjourn the meeting at 1:30 p.m. Motion passed.

### **Next meetings:**

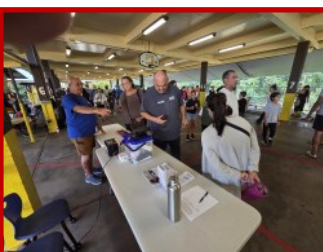
- The next meeting will be held on October 12, 2025 at the Kamana Senior Center in Hilo. The executive board meeting will be at 12:00 pm and the club activity will be at 2:00 pm. The links to attend online are at <https://www.biarc.net/>

Respectfully submitted,  
Joseph Rosenbaum,  
Secretary



**WH6JOE and  
KH6CZ share  
wonders of  
ham radio.**

## **Ed & Outreach volunteers on the road at De Silva Elementary**



The BIARC Education and Outreach Committee keeps very busy every month, including its popular outreach efforts at school Science Nights and related activities hosted by the Hawaii Museum of Science and Technology.

[On Oct. 1, volunteers were at Waiakea Elementary, introducing students to the fun and possibilities available via amateur radio. (See committee report on Page 5.)]

These pictures were taken at the the E.B. De Silva Elementary School on Sept. 10, courtesy of committee chair David Miller, KH6CZ. Others helping out that night on site were Joe Rosenbaum, WH6JOE, and Jim Tatar, WH6EMN.

# BIARC donated funds summary

As of: 9/13/2025

| <u>Year</u> | <u>BIARC<br/>Equipment<br/>Budget</u> | <u>Donations<br/>(Credit)</u> | <u>Equipment<br/>Purchases &amp;<br/>Maintenance Costs</u> | <u>\$ Covered<br/>By Fund</u> | <u>Repeater<br/>Fund<br/>Balance</u> |
|-------------|---------------------------------------|-------------------------------|------------------------------------------------------------|-------------------------------|--------------------------------------|
| 2017        | \$600.00                              | \$273.00                      | \$932.75                                                   | \$332.75                      | <b>-\$59.75</b>                      |
| 2018        | \$1,000.00                            | \$235.00                      | \$266.98                                                   | \$0.00                        | \$175.25                             |
| 2019        | \$500.00                              | \$255.00                      | None                                                       | \$0.00                        | \$430.25                             |
| 2020        | \$500.00                              | \$501.72                      | \$436.78                                                   | \$0.00                        | \$931.97                             |
| 2021        | \$600.00                              | \$1,595.00                    | \$1,548.28                                                 | \$948.28                      | \$1,578.69                           |
| 2022        | \$950.00                              | \$729.00                      | \$0.00                                                     |                               | \$2,307.69                           |
| 2023        | \$950.00                              | \$455.75                      | \$2,626.92                                                 | \$586.84                      | \$2,176.60                           |
| 2024        |                                       | \$858.85                      | \$0.00                                                     |                               | <b>\$3,035.45</b>                    |
| 2025        |                                       | \$403.74                      | \$333.15                                                   | \$333.15                      | <b>\$3,106.04</b>                    |

**Notes:** This fund holds amounts donated to be used for communications infrastructure, maintenance, & upgrades.

## Humanitarian Fund:

| <u>Year</u> | <u>\$ Donated</u> | <u>Amount Spent</u> | <u>Balance</u> |
|-------------|-------------------|---------------------|----------------|
| 2022        | \$395.00          | \$140.00            | \$255.00       |
| 2023        | \$158.75          | \$0.00              | \$413.75       |
| 2024        | \$53.25           | \$0.00              | \$467.00       |
| 2025        |                   |                     |                |

## BIARC Treasurer's monthly update:

As of 9/13/25 BIARC has received no new member dues since the August report. The following new disbursement were made since the last report:

Check#1870 \$20.92 (Marvin Kitchen-Reimbursement for BIARC Google Workspace payment made for August & September 2025)

Check#1871 \$87.75 (Marvin Kitchen-Reimbursement for ATAS antenna stand purchased on EBay based on recommendations from WH6JOE & WH6FSA-Funds approved at August 2025 Executive Board Meeting.)

| Name                                  | Approximate Location | Island | Device                    |
|---------------------------------------|----------------------|--------|---------------------------|
| Dewey, nh6m                           | Ahihawa Kailua-Kona  | Hawaii | heltec-wireless-tracker   |
| Meshtastic cc7f                       | Ahihawa K-K          | Hawaii | tracker-t1000-e           |
| Meshtastic 12a8                       | Ahualoa              | Hawaii | rak4631                   |
| Meshtastic 60f3                       | Ahualoa              | Hawaii | rak4631                   |
| WH6HAA-M1                             | Ainaloa              | Hawaii | tracker-t1000-e           |
| HBMCI                                 | Amalu                | Hawaii | station-g2                |
| Eoh Pam                               | 9834 East Volcano    | Hawaii | heltec-v3                 |
| Farley-Server                         | East Volcano         | Hawaii | rak4631                   |
| Foh-ENV                               | East Volcano         | Hawaii | station-g2                |
| Hitchiker                             | East Volcano         | Hawaii | rak4631                   |
| hitchiker rf udp                      | East Volcano         | Hawaii | tracker-1000-e            |
| hitchikerAL                           | East Volcano         | Hawaii | heltec-v3                 |
| hitchiker-udp                         | East Volcano         | Hawaii | heltec-v3                 |
| KH6GG Node 2                          | East Volcano         | Hawaii | portduino                 |
| LM-Base                               | East Volcano         | Hawaii | heltec-vision-master-t190 |
| LM-Experimental                       | East Volcano         | Hawaii | station-g2                |
| LM-Meshsense                          | East Volcano         | Hawaii | portduino                 |
| MLE_Net 5a60                          | East Volcano         | Hawaii | heltec-v3                 |
| Nurse Dude Alphanuz                   | East Volcano         | Hawaii | heltec-v3                 |
| Nurse Dude tdeck                      | East Volcano         | Hawaii | heltec-mesh-mode-t114     |
| Nurse Dudes Vision                    | East Volcano         | Hawaii | t-deck                    |
| Ranches base                          | East Volcano         | Hawaii | heltec-vision-master-t190 |
| WH6GQD                                | East Volcano         | Hawaii | rak4631                   |
| WH6GXZ Mini Mesh                      | East Volcano         | Hawaii | tracker-t1000-e           |
| wh6gxz-udp                            | East Volcano         | Hawaii | portduino                 |
| WH6GXZ-Fox                            | East Volcano         | Hawaii | portduino                 |
| JT Mobile Mesh                        | East Waimea          | Hawaii | tracker-t1000-e           |
| Meshtastic 92ac                       | East Waimea          | Hawaii | heltec-v3                 |
| pi4-30db-whha                         | East Waimea          | Hawaii | portduino                 |
| Unlimited_Laa                         | FA Mountain View     | Hawaii | tracker-t1000-e           |
| Kohala 8CA6                           | Hawi                 | Hawaii | rak4631                   |
| Kohala 8ca6                           | Hawi                 | Hawaii | rak4631                   |
| Meshtastic 70c4                       | Haw'n Ocean View     | Hawaii |                           |
| BK72                                  | Hillside-Sunrise Sub | Hawaii | tlora-v2-1-1p6            |
| F2PB1                                 | Hillside-Sunrise Sub | Hawaii | tlora-v2-1-1p6            |
| GIX8                                  | Hillside-Sunrise Sub | Hawaii | tlora-v2-1-1p6            |
| GIX9                                  | Hillside-Sunrise Sub | Hawaii | t-deck                    |
| GIXPBT2                               | Hillside-Sunrise Sub | Hawaii | tlora-v2-1-1p6            |
| HI Mesh Project - Waialae CERT Team 2 | Hillside-Sunrise Sub | Hawaii | heltec-v3                 |
| WH6GX                                 | Hillside-Sunrise Sub | Hawaii | tlora-v2-1-1p6            |
| Demo1                                 | Hilo                 | Hawaii | station-g2                |
| KH6RDO Hilo                           | Hilo                 | Hawaii | rak4631                   |
| Meshtastic Potatoes                   | Hilo                 | Hawaii | station-g2                |
| Meshtastic 3151                       | Hilo                 | Hawaii | t-echo                    |

## MESHTASTIC MODE NODE MAP GROWS EACH DAY



## STATEWIDE LISTING AS OF FIRST WEEK IN OCTOBER

|                        |                    |        |                         |
|------------------------|--------------------|--------|-------------------------|
| Meshtastic 4474        | Hilo               | Hawaii |                         |
| Mrshtastic d2a4        | Hilo               | Hawaii | station-g2              |
| Naboa 1                | Hilo               | Hawaii | heltec-v3               |
| PHTO                   | Hilo               | Hawaii | rak4631                 |
| PM T1000 d7e0 (mobile) | Hilo               | Hawaii | tracker-t1000-e         |
| Potala MV a747         | Hilo               | Hawaii | rak4631                 |
| WH6EMN-B               | Hilo               | Hawaii | station-g2              |
| WH6EMN-Demo-M3         | Hilo               | Hawaii | tracker-t1000-e         |
| WH6EMN-M1              | Hilo               | Hawaii | tracker-t1000-e         |
| WH6EMN-M2              | Hilo               | Hawaii | nano-g2-ultra           |
| WH6FSA-M               | Hilo               | Hawaii | tracker-t1000-e         |
| WH6GHEO_2680           | Hilo               | Hawaii | heltec-v3               |
| WH6GHEO_BB30           | Hilo               | Hawaii | heltec-v3               |
| KD2HWH b394            | Hilton Waikoloa    | Hawaii | t-beam                  |
| Meshtastic fec4        | Holualoa Kona      | Hawaii | t-beam                  |
| Honokaa Hospital M1    | Honokaa            | Hawaii | tracker-t1000-e         |
| Solar Pad alpha        | Honokaa            | Hawaii | rak4631                 |
| AH6DL 6DL1             | Honolulu           | Hawaii | rak4631                 |
| AH6DL Honomu T         | Honolulu           | Hawaii | Liligo t-beam S3 core   |
| AH6DL roam a05e        | Honolulu           | 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                 |
| Meshtastic 07e4        | Hualalai 4 Seasons | Hawaii |                         |
| solar kilo             | Hualalai 4 Seasons | Hawaii | rak4631                 |
| Patches                | Hualalai Villas    | Hawaii | tracker-t1000-e         |
| Meshtastic 4dda        | Kahului            | Hawaii | heltec-mesh-node-t114   |
| Elab Pi Waveshare A021 | Kailua-Kona        | Hawaii | rak4631                 |
| K7JBS 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           | Kalaoa             | Hawaii | heltec-v3               |
| Dewey nh6m             | Kalaoa             | Hawaii | heltec-wireless-tracker |
| Kalaoa 1490            | Kaloko             | Hawaii | rak4631                 |
| Meshtastic 6Cdd        | Kalopa Mauka       | Hawaii | t-echo                  |
| PI3-30db Kawaihae 8ff0 | Kawaihae           | Hawaii | portduino               |
| Solar Sierra           | Kawaihae           | Hawaii | heltec-v3               |
| Kelan's House          | Kawaihae Rd        | Hawaii | heltec-wireless-tracker |
| Kelan's Phone          | Kawaihae Rd        | Hawaii | tracker-t1000-e         |
| Heltec mesh node T114  | Kawaihae Rd Waimea | Hawaii | heltec-v3               |
| Mesh HPP c918          | Keauu              | Hawaii | heltec-v3               |
| Mesh HPP c9a0          | Keauu              | Hawaii | heltec-v3               |
| Meshtastic ee30        | Keauu              | Hawaii | tlora-v2-1-1p6          |
| Keahole pt             | Keahole Airport    | Hawaii | rak4631                 |

COMPILED BY KH6RDO, continues on next 3 pages

|                            |                     |        |                           |
|----------------------------|---------------------|--------|---------------------------|
| CB202                      | Keauhou Kona        | Hawaii | heltec-v3                 |
| N8CMB                      | Keauhou Kona        | Hawaii | heltec-mesh-node-t114     |
| Meshtastic c78b            | Keaukaha            | Hawaii | tracker-t1000-e           |
| kilohana east e873         | Kilohana            | Hawaii | rak4631                   |
| Kilohana solar West        | Kilohana            | Hawaii | rak4631                   |
| Kilohana Solar 6w-3k 6c8e  | Kilohana Scout      | Hawaii | rak4631                   |
| Hanaipoe mana ac9f         | Kilohana Scout area | Hawaii | rak4631                   |
| HC Jumper                  | Kilohana Scout area | Hawaii | heltec-v3                 |
| Meshtastic a2e9            | Kilohana Scout area | Hawaii | rak4631                   |
| Meshtastic CCS8            | Kilohana Scout area | Hawaii | heltec-v3                 |
| Kohala Hoea Rd 3           | Kohala              | Hawaii | heltec-v3                 |
| Kohala Hoea Rd 55-358-1    | Kohala              | Hawaii | heltec-v3                 |
| Kohala Hoea Rd 55-358-2    | Kohala              | Hawaii | heltec-v3                 |
| Hawi 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                |
| S5 RANGER MAGNUM           | Kona                | Hawaii | t-deck                    |
| Acti+B3.B17on Potential    | Kona Village        | Hawaii | t-echo                    |
| Mobile1                    | Kukila Hilo         | Hawaii | heltec-v3                 |
| Meshtastic 2d76 (mobile)   | Lalamilo            | Hawaii | tracker-t1000-e           |
| Meshtastic 482f            | Lalamilo            | Hawaii | rak4631                   |
| Meshtastic 5e38            | Lalamilo            | Hawaii | rp2040-lora               |
| Meshtastic 6453            | Lalamilo            | Hawaii | t-echo                    |
| Meshtastic 8295            | Lalamilo            | Hawaii | tracker-t1000-e           |
| Meshtastic be48            | Lalamilo            | Hawaii | lilygo-tbeam-s3-core      |
| Meshtastic c87             | Lalamilo            | Hawaii |                           |
| Meshtastic e18e            | Lalamilo            | Hawaii | tracker-t1000-e           |
| PI400-30db                 | Lalamilo            | Hawaii | portduino                 |
| solar IP67 gps alpha       | Lalamilo            | Hawaii | rak4631                   |
| WH6EHJ - 2fc5              | Lalamilo            | Hawaii | rak4631                   |
| KH6EKD-2                   | Laupahoehoe         | Hawaii | heltec-v3                 |
| Meshtastic 71ea            | Laupahoehoe         | Hawaii | rak4631                   |
| KB SenseCAP Tracker ca9a   | Lower Palasides     | Hawaii | tracker-t1000-e           |
| LMTK-7c                    | Lower Volcano       | Hawaii | tracker-t1000-e           |
| WH6GXZ-ecom                | Lower Volcano       | Hawaii | portduino                 |
| H2T                        | Lower Waimea Town   | Hawaii | heltec-mesh-node-t114     |
| Meshtastic ace1            | Lower Waimea Town   | Hawaii |                           |
| solar monolith             | Lower Waimea Town   | Hawaii | rak4631                   |
| LMTK-23ac                  | Mauna               | Hawaii | rak4631                   |
| HPKU Hale Pohaku           | Mauna Kea           | Hawaii | station-g2                |
| Ditto                      | Mauna Kea Beach     | Hawaii | heltec-v3                 |
| Onix                       | Mauna Kea Beach     | Hawaii | heltec-v3                 |
| Solar Tango Mauna Lani     | Mauna Lani          | Hawaii | rak4631                   |
| MLDA-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         |
| WH6EPS-B                      | Mountain View    | Hawaii | station-g2              |
| WH6EPS-M                      | Mountain View    | Hawaii | nano-g2-ultra           |
| WH6EPS-M2                     | Mountain View    | Hawaii | tracker-t1000-e         |
| WH6EPS-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               |
| AH6V-6ee0                     | Ninole           | Hawaii | heltec-v3               |
| KH6DM G2 f5c4                 | Ninole           | Hawaii | station-g2              |
| KH6GM Spec5 7f60              | Ninole           | Hawaii | heltec-wireless-tracker |
| KH6GM T1000 bcd5 (mobile)     | Ninole           | Hawaii | tracker-t1000-e         |
| Paaulo Mauka 1609             | Paaulo           | Hawaii | rak4631                 |
| Wardriver (mobile)            | Paaulo Mauka     | Hawaii | rak4631                 |
| KH6HAK-B2                     | Pahoa            | Hawaii | station-g2              |
| KH6HAK-M1                     | Pahoa            | Hawaii | tracker-t1000-e         |
| HiMesh Project - Hilo         | Panaewa          | Hawaii | heltec-v3               |
| KH6RDO-Pepeekeo               | Pepeekeo         | Hawaii | heltec-v3               |
| Pepeekeo-BIARC                | Pepeekeo         | Hawaii | heltec-wsl-v3           |
| Solar Keamuku                 | Pohakuloa        | Hawaii | rak4631                 |
| Meshtastic 2dcd               | Puako            | Hawaii |                         |
| HRCC Fast Node                | UH West Hawaii   | Hawaii | heltec-mesh-node-t114   |
| solar node golf               | Upper HOVE       | Hawaii | rak4631                 |
| Hale Pohaku alpha 195f        | Upper Humuila    | Hawaii | rak4631                 |
| Waikii Coast                  | Upper Waikii     | Hawaii | rak4631                 |
| Pocket V2 Gamma               | Upper Waikoloa   | Hawaii | rak4631                 |
| MLE top 28                    | Volano           | Hawaii | rak4631                 |
| Car54 f324                    | Volcano          | Hawaii | tracker-t1000-e         |
| HAD1 (mobile)                 | Volcano          | Hawaii | tracker-t1000-e         |
| KH7DQ Doug                    | Volcano          | Hawaii | tracker-t1000-e         |
| KH7DQ-Base                    | Volcano          | Hawaii | station-g2              |
| Meshtastic 2b34               | Volcano          | Hawaii |                         |
| MLE_Net 1424                  | Volcano          | Hawaii | heltec-v3               |
| WH6EBS R4                     | Volcano          | Hawaii | station-g2              |
| WH6EBS-M1                     | Volcano          | Hawaii | tracker-t1000-e         |
| WH6EBS-R3                     | Volcano          | Hawaii | station-g2              |
| WH6SLQ                        | Volcano          | Hawaii | tracker-t1000-e         |
| WH7BR-Base                    | Volcano          | Hawaii | rak4631                 |
| WH7BR-M1                      | Volcano          | Hawaii | tracker-t1000-e         |
| gunwale                       | Volcano Golf Sub | Hawaii | tracker-t1000-e         |
| NH6ET                         | WaaWaa           | Hawaii | heltec-wsl-v3           |
| HiMesh Project - Moku O Keawe | Waiakea Uka      | Hawaii | heltec-wsl-v3           |

|                                |                     |         |                       |                                       |                        |        |                       |
|--------------------------------|---------------------|---------|-----------------------|---------------------------------------|------------------------|--------|-----------------------|
| Sodna                          | Waiianuenue         | Hawaii  | t-beam                | C8999                                 |                        | Hawaii | t-deck                |
| Meshtastic da94                | Waiianuenue Hilo    | Hawaii  | heltec-v3             | ele'ele                               |                        | Hawaii | heltec-v3             |
| PI400-30db                     | Waikii              | Hawaii  | portduino             | Kelan's Car                           |                        | Hawaii | heltec-v3             |
| Solar HP                       | Waikii Waimea       | Hawaii  | rak4631               | kg6hwhf                               |                        | Hawaii | heltec-v3             |
| solar waikii west              | Waikii Waimea       | Hawaii  | rak4631               | KH6GG-uGG                             |                        | Hawaii | portduino             |
| Waikii                         | Waikii Waimea       | Hawaii  | rak4631               | LM-Logging                            |                        | Hawaii | portduino             |
| Meshtastic 0488                | Waikoloa            | Hawaii  | t-deck-pro            | Meshtastic 7c67                       |                        | Hawaii | rak4631               |
| Mobius T-Echo                  | Waikoloa            | Hawaii  | t-echo                | ML0A-2                                |                        | Hawaii | station-g2            |
| M3at                           | Waikoloa Beach      | Hawaii  | tracker-t1000-e       | ORCA Uconsole                         |                        | Hawaii | portduino             |
| Meshtastic 4efc                | Waikoloa Village    | Hawaii  | t-beam                | Solar Sensor                          |                        | Hawaii | rak4631               |
| Orca Techo                     | Waikoloa Village    | Hawaii  | t-echo                | VolcanoAI                             |                        | Hawaii | portduino             |
| 6JA seed Hilo                  | Wailuku             | Hawaii  | tracker-t1000-e       | WH6EBS-M2                             |                        | Hawaii | tracker-t1000-e       |
| 6KSN Seed                      | Wailuku             | Hawaii  | tracker-t1000-e       | WH6GXZ-ube                            |                        | Hawaii | portduino             |
| all your base are belong to us | Waimea              | Hawaii  | rak4631               | WH6GZZ                                |                        | Hawaii | heltec-mesh-node-t114 |
| Chris Hawkins                  | Waimea              | Hawaii  | rak4631               | WH6HAA                                |                        | Hawaii | tracker-t1000-e       |
| Drone                          | Waimea              | Hawaii  | tracker-t1000-e       | WH6HEO-Cold Xiaoe                     |                        | Hawaii | seed-xiao-s3          |
| elab router pi4-30db ba5a      | Waimea              | Hawaii  | portduino             | WH6HEO-Hot Zaoer                      |                        | Hawaii | seed-xiao-s3          |
| Hawi Rd Waimea e3c9            | Waimea              | Hawaii  | rak4631               | WH6EY-Repeater                        |                        | Kauai  | rak4631               |
| Hokuula Solar                  | Waimea              | Hawaii  | heltec-v3             | WH6EY-Unit1                           | Wailua                 | Kauai  | rak4631               |
| HPA MQTT Gateway               | Waimea              | Hawaii  | rak4631               | WH6EY-Unit2                           | Wailua                 | Kauai  | rak4631               |
| Mana Road 59ab                 | Waimea              | Hawaii  | rak4631               | Haiku Makai                           | Haiku                  | Maui   | Liligo t-beam S3 core |
| Meshtastic 0429                | Waimea              | Hawaii  |                       | Robert                                | Haiku                  | Maui   | t-deck                |
| Meshtastic 9c38                | Waimea              | Hawaii  | tracker-t1000-e       | Haleakala Repeater                    | Haleakala              | Maui   | rak4631               |
| Meshtastic b981                | Waimea              | Hawaii  | rak4631               | Haleakala Summit Repeater             | Haleakala              | Maui   | rak4631               |
| Meshtastic d2b9                | Waimea              | Hawaii  | tracker-t1000-e       | Mat2 f48b                             | Kahului                | Maui   | rak4631               |
| pi4-30db-hoku desk             | Waimea              | Hawaii  | portduino             | 6C t-deck                             | Kahului                | Maui   | t-deck                |
| PI4K-30db                      | Waimea              | Hawaii  | portduino             | KG6hwhf                               | Kahului                | Maui   | t-rcho                |
| solar mini alpha               | Waimea              | Hawaii  | rak4631               | Meshtastic 1a8d                       | Kahului                | Maui   | tracker-t1000-e       |
| solar mini block               | Waimea              | Hawaii  | rak4631               | MIHNakoa                              | Kahului                | Maui   | t-beam                |
| solar monolith beta            | Waimea              | Hawaii  | rak4631               | MIHTdeck                              | Kahului                | Maui   | t-deck                |
| Waikii 74c0                    | Waimea              | Hawaii  | heltec-v3             |                                       | 1001010 Kealahou Ridge | Maui   | tracker-t1000-e       |
| Waikii G2                      | Waimea              | Hawaii  | station-g2            | Meshtastic c814                       | Kihei                  | Maui   |                       |
| Waikii Repeater                | Waimea              | Hawaii  | rak4631               | Octogrid 01                           | Kihei                  | Maui   | t-echo                |
| Waimea Homesteads              | Waimea              | Hawaii  | rak4631               | Octogrid 6                            | Kihei                  | Maui   | dly-v1                |
| Wardriver beta                 | Waimea              | Hawaii  | rak4631               | Octopie Base Node                     | Kihei                  | Maui   | portduino             |
| Cyclops                        | Waimea Town         | Hawaii  | rak4631               | pmow mobile                           | Kihei Ridge            | Maui   | t-echo                |
| Solar Lima                     | Waimea Town         | Hawaii  | rak4631               | Cloud Castle Farm                     | Kula                   | Maui   | liligo-tbeam-s3-core  |
| T-Beam Control                 | Waimea Town         | Hawaii  | t-beam                | WH6FXV-1 Fixed                        | Kula                   | Maui   | heltec-v3             |
| T-Beam S3 Alpha                | Waimea Town         | Hawaii  | liligo-tbeam-s3-core  | KH6TU                                 | Lahaina                | Maui   | heltec-v3             |
| LaeLae Repeater 4952           | Waimea Watershed    | Hawaii  | rak4631               | Big Kahuna 44e4                       | Launiupoko Lahaina     | Maui   | tracker-t1000-e       |
| Meshtastic 03a7                | Waimea Watershed    | Hawaii  | tracker-t1000-e       | Launiupoko df60                       | Launiupoko Lahaina     | Maui   | rak4631               |
| Meshtastic 4154                | Waimea Watershed    | Hawaii  | rak4631               | Meshtastic 90fa                       | Maalea                 | Maui   | t-echo                |
| Meshtastiv b1d4                | Waimea Watershed    | Hawaii  | heltec-v3             | Colin Makawao                         | Makawao                | Maui   | tlora-v2-1-1p6        |
| Meshtastic 6570                | West HI Concrete    | Hawaii  | heltec-v3             | Kanaka1                               | Makawao                | Maui   | rak4631               |
| Meshtastic 7764                | West HI Concrete    | Hawaii  | heltec-v3             | KH6HHG d510                           | Makawao                | Maui   | heltec-v3             |
| Meshtastic e3b7                | Wright Rd Volcano   | Hawaii  | tracker-t1000-e       | KH6UU d03c                            | Makawao                | Maui   | rak4631               |
| Borg-Server                    |                     | Hawaii  | station-g2            | Meshtastic d287                       | Makawao                | Maui   | t-echo                |
| Silversword aabc               | Makawao             | Maui    | heltec-v3             |                                       |                        |        |                       |
| Tav G2Nano Ultra               | Makawao             | Maui    | nano-g2-ultra         | GreenRed ff58                         | Ewa Beach              | Oahu   | liligo-tbeam-s3-core  |
| Tavis G2                       | Makawao             | Maui    | station-g2            | HelGreenBlack 5898                    | Ewa Beach              | Oahu   | heltec-v3             |
| Black Bag                      | Olinda              | Maui    | t-echo                | Neacom                                | Ewa Forest Reserve     | Oahu   | t-beam                |
| W585 WX 4011                   | Olowalu             | Maui    | rak4631               | Meshtastic 90b4                       | Ewa Plains             | Oahu   | t-beam                |
| Blue Mesh                      | Paia                | Maui    |                       | 7o Minami ch20 c067                   | Hawaii Kai             | Oahu   | t-echo                |
| Meshtastic 706C                | Paia                | Maui    | heltec-v3             | KH6D Spec5                            | Hawaii Kai             | Oahu   | t-deck                |
| Orange                         | Paia                | Maui    | liligo-tbeam-s3-core  | Last Responder                        | Hawaii Kai             | Oahu   | rak4631               |
| Meshtastic 4b68                | Pukalani            | Maui    | station-g2            | Meshtastic e68b                       | Hawaii Kai             | Oahu   | heltec-mesh-node-t114 |
| Meshtastic 9380                | Pukalani            | Maui    | liligo-tbeam-s3-core  | WisMesh Pocket 718a                   | Hawaii Kai             | Oahu   | rak4631               |
| Tavis T-Echo                   | Pukalani            | Maui    | t-echo                | KH7EC-R                               | Kahala                 | Oahu   | rak2560               |
| 6C t-deck                      | Wailuku             | Maui    | t-deck                | LKH6LT-M (mobile)                     | Kahala                 | Oahu   | heltec-v3             |
| 6C_seed                        | Wailuku             | Maui    | tracker-t1000-e       | Meshtastic 4fa9                       | Kahala                 | Oahu   | wismesh-tap           |
| Mat1 ed54                      | Wailuku             | Maui    | rak4631               | Meshtastic f504                       | Kahala                 | Oahu   | heltec-v3             |
| Mat3 7052                      | Wailuku             | Maui    | rak4631               | JorgeTV rak3272                       | Kahaluu                | Oahu   | rak4631               |
| Mat4 8355                      | Wailuku             | Maui    | tracker-t1000-e       | MattMobile                            | Kailua                 | Oahu   | heltec-v3             |
| Mat5 d67f                      | Wailuku             | Maui    | tracker-t1000-e       | Meshtastic 23f3                       | Kailua                 | Oahu   |                       |
| Meshtastic 73e8                | Wailuku             | Maui    |                       | Meshtastic 86d4                       | Kailua                 | Oahu   |                       |
| pmow test                      | Wailuku             | Maui    | t-echo                | Meshtastic dfb7                       | Kailua                 | Oahu   |                       |
| Randy 7f40                     | Wailuku             | Maui    | heltec-v3             | Meshtastic e3f0                       | Kailua                 | Oahu   | heltec-v3             |
| Wailuku Repeater (MQTT)        | Wailuku             | Maui    | station-g2            | KH7EC                                 | Kaimuki                | Oahu   | tracker-t1000-e       |
| Atlavox S4                     | Wailuku             | Maui    | rak4631               | KH7EC-A                               | Kaimuki                | Oahu   | heltec-v3             |
| Haiku K9-H 2f26                | Wailuku             | Maui    | rak4631               | N1PDG-1                               | Kakaako                | Oahu   | heltec-v3             |
| KH6UU repeater                 | Wailuku             | Maui    | rak4631               | Tiki's Loft A                         | Kakaako                | Oahu   |                       |
| SunMesh 915a Solar             | Wailuku             | Maui    | heltec-v3             | Kalaeloa                              | Kalaeloa Airport       | Oahu   | rak4631               |
| Meshtastic 607d                | Honolulu            | Molokai | t-echo                | Meshtastic a244                       | Kalihi Valley          | Oahu   |                       |
| ENTM_Peaberry                  | Kaunakakai          | Molokai | heltec-mesh-node-t114 | Meshtastic e8a7                       | Kalihi Valley          | Oahu   |                       |
| Meshtastic 4d61                | Kualapuu            | Molokai | t-echo                | ART1 ECHO                             | Kaneohe                | Oahu   | t-echo                |
| Meshtastic d311                | Kualapuu            | Molokai | t-echo                | Kaalaau Repeater                      | Kaneohe                | Oahu   | rak4631               |
| ENTM_Solar                     | Molokai High School | Molokai | rak4631               | KH6ML-e Echo                          | Kaneohe                | Oahu   | t-echo                |
| ENTM_T-deck (mobile)           | Molokai High School | Molokai | t-deck                | KH7EH-03                              | Kaneohe                | Oahu   | station-g2            |
| ENTM_Terminal                  | Molokai Shores      | Molokai | rak4631               | KH7EH-04                              | Kaneohe                | Oahu   | liligo-tbeam-s3-core  |
| ENTM-Peanut                    | Molokai Shores      | Molokai | heltec-v3             | Meshtastic 212c                       | Kaneohe                | Oahu   | rak4631               |
| NH7IT 03                       | Ala Wai             | Oahu    | heltec-v3             | Meshtastic da25                       | Kaneohe                | Oahu   | tracker-t1000-e       |
| KH6DWL Home 6424               | East Kapolei        | Oahu    | heltec-v3             | Meshtastic f779                       | Kaneohe                | Oahu   |                       |
| Sugoi Mesh                     | East Kapolei        | Oahu    | tracker-t1000-e       | Solo tracker 39a3                     | Kaneohe                | Oahu   | seed-wio-tracker-i1   |
| SWTI 37C                       | East Kapolei        | Oahu    | rak4631               | WH6FXV-3-05be                         | Kaneohe                | Oahu   | t-echo                |
| hawaii_gaz                     | Enchanted Lake      | Oahu    | heltec-v3             | Meshtastic 9946                       | Kapahulu               | Oahu   | t-echo                |
| Hawaii_gaz                     | Enchanted Lake      | Oahu    | heltec-v3             | AH6WN RAK1                            | Kapolei                | Oahu   | rak4631               |
| KH6ML Bad Echo                 | Enchanted Lake      | Oahu    |                       | HiMesh Project - Ewa                  | Kapolei                | Oahu   | tracker-t1000-e       |
| Meshtastic 4c7f                | Enchanted Lake      | Oahu    |                       | Meshtastic ff68                       | Kapolei                | Oahu   |                       |
| Meshtastic 8454                | Enchanted Lake      | Oahu    | t-echo                | KH6ML q T-Echo q                      | Kealahou Kaneohe       | Oahu   | t-echo                |
| Meshtastic e71b                | Enchanted Lake      | Oahu    |                       | Meshtastic 4194                       | Koko Head              | Oahu   |                       |
| Meshtastic 6a44                | Ewa                 | Oahu    |                       | 302A AIEA Facebook: MESHTASTIC HAWAII | Koolau                 | Oahu   | heltec-v3             |
| AH6WN RAK Mobile               | Ewa Beach           | Oahu    | rak4631               | 302B Mobile                           | Koolau                 | Oahu   | heltec-v3             |
| Atlavox B2 6894                | Ewa Beach           | Oahu    | rak4631               | Tikis.com near Band & Bar Solar       | Kuhio Beach            | Oahu   | rak4631               |
| Ewa by Gentry                  | Ewa Beach           | Oahu    | rak4631               | SWTI 37A                              | Kunia                  | Oahu   | tracker-t1000-e       |
|                                |                     |         |                       | Pensacola mesh 05                     | Lanikai                | Oahu   | tracker-t1000-e       |

|                              |                       |      |                           |                              |                      |      |                       |
|------------------------------|-----------------------|------|---------------------------|------------------------------|----------------------|------|-----------------------|
| RUSS Lanikai                 | Lanikai               | Oahu | heltec-v3                 | Meshtastic e6d2              | Waikiki              | Oahu | tracker-t1000-e       |
| Makakilo-09                  | Makakilo              | Oahu | rak4631                   | ShakataGaNaI/L1Pro           | Waikiki              | Oahu | seed-wio-tracker-l1   |
| Meshtastic 12ec              | Makakilo              | Oahu | rak4631                   | ShakataGaNaI/WisTag bayme.sh | Waikiki              | Oahu | wismesh-tag           |
| Meshtastic d5de              | Makakilo              | Oahu | heltec-mesh-mode-t114     | Wallop Mobile                | Waikiki              | Oahu | rak4631               |
| Meshtastic d5de              | Makakilo              | Oahu |                           | 6136_5634                    | Waimanu Valley Ridge | Oahu | llygo-tbeam-s3-core   |
| 6MLs KH6ML Card at Work      | Makiki                | Oahu | tracker-t1000-e           | Meshtastic ba05              | Waipahu              | Oahu | seed-wio-tracker-l1   |
| KH7TV Echo                   | Makiki - Roosevelt    | Oahu | t-echo                    | Poi Dog 19f4                 | Waipahu              | Oahu | heltec-mesh-node-t114 |
| Meshtastic e8cb              | Makiki - Roosevelt    | Oahu |                           | Meshtastic 5cc0              | Waipahu Uka          | Oahu |                       |
| NH7IT 01                     | Makiki - Roosevelt    | Oahu | t-echo                    | WH6ECG-00 Heela              | Windward Mall area   | Oahu | heltec-v3             |
| Basement not monitored 6OCD  | Makiki Punchbowl      | Oahu | heltec-v3                 | AH6T_Mesh_dcc6               |                      | Oahu | t-echo                |
| Manoa/Tantalus mk23          | Manoa                 | Oahu | t-beam                    | KH6EKD-1                     |                      | Oahu | heltec-v3             |
| Pika                         | Maunawili             | Oahu | rak4631                   | KH6ML-b QTH Loft             |                      | Oahu | heltec-v3             |
| VITA                         | Maunawili             | Oahu | heltec-v3                 | KH6ML-fox                    |                      | Oahu | heltec-v3             |
| Meshtastic 57f8              | MCBH Kaneohe          | Oahu |                           | WH6ECG-15                    |                      | Oahu | heltec-v3             |
| Meshtastic d724              | MCBH Kaneohe          | Oahu | heltec-v3                 | WH6ECG-2                     |                      | Oahu | heltec-v3             |
| Meshtastic a211              | Nuanu Valley          | Oahu |                           | WH6ECG-7                     |                      | Oahu | t-deck                |
| 7o SOUTH 20 fbba             | Palolo                | Oahu | t-echo                    | WH6ECG-9                     |                      | Oahu | sensecap-indicator    |
| Meshtastic 1edf              | Palolo                | Oahu |                           | WH6FXV-Dash                  |                      | Oahu | t-deck-pro            |
| KH6ML Pearl City Fixed       | Pearl City            | Oahu | heltec-v3                 | Feds Watcher                 |                      |      | t-deck                |
| HiMesh Project - Aiea        | Pearl Harbor          | Oahu | station-g2                | 4248 (mobile)                |                      |      | heltec-v3             |
| Meshtastic 259d              | Pearl Harbor          | Oahu |                           | 6C Hell-Kat                  |                      |      | rak4631               |
| Meshtastic 3a1f              | Pearl Harbor          | Oahu | t-echo                    | 6C R1                        |                      |      | rak4631               |
| Meshtastic 412c              | Pearl Harbor          | Oahu | heltec-v3                 | 6C Wisblock                  |                      |      | thinknode-m1          |
| Borg 8e34                    | Pearl Ridge           | Oahu | heltec-vision-master-t190 | 6C_Pocket_10k                |                      |      | heltec-mesh-pocket    |
| Meshtastic 2bcc              | Pearlridge            | Oahu | heltec-vision-master-t190 | 6C_Pocket_Mesh_5K            |                      |      | heltec-mesh-pocket    |
| KH6ML-mobile T-Echo2         | Punchbowl             | Oahu | t-echo                    | 6CP ESF2                     |                      |      | tracker-t1000-e       |
| KaiserT114_23b0              | Roosevelt High Makiki | Oahu | heltec-mesh-node-t114     | 6Mlg Green Peak e206         |                      |      | tracker-t1000-e       |
| Kakaako 09b8                 | Roosevelt High Makiki | Oahu | heltec-v3                 | 777 6e2b                     |                      |      | t-deck                |
| Hikers Solar PW Manoa        | Upper Manoa           | Oahu | rak4631                   | 7o NORTH 20 5c0b             |                      |      | heltec-v3             |
| SLH2 c1ab                    | Upper Palolo          | Oahu | t-echo                    | AHEWN T-Deck                 |                      |      | heltec-v3             |
| SLH1 9ef2 (mobile)           | Upper Palolo          | Oahu | t-echo                    | Alex                         |                      |      | rak4631               |
| Traveler TECHO-9430 (mobile) | Upper Palolo          | Oahu | t-deck                    | APRStastic iGate             |                      |      | heltec-v3             |
| KH7EC-A                      | Waialae Kahala        | Oahu | heltec-v3                 | AUXC HI                      |                      |      | heltec-mesh-pocket    |
| KH7EC-B                      | Waialae Kahala        | Oahu | heltec-v3                 | Battery                      |                      |      | rak4631               |
| KH7EC-H                      | Waialae Kahala        | Oahu | heltec-v3                 | bDrifter_01 e023             |                      |      | heltec-v3             |
| LoRa 6CP 514c                | Waialae Kahala        | Oahu | heltec-v3                 | bDrifter_03 d368             |                      |      | heltec-v3             |
| Meshtastic b8a6              | Waialae Kahala        | Oahu | heltec-mesh-node-t114     | Bender 72c0                  |                      |      | heltec-mesh-pocket    |
| Meshtastic de16              | Waialae Kahala        | Oahu |                           | Bird 6fa1                    |                      |      | rak4631               |
| sukebe mesh                  | Waialae Kahala        | Oahu | t-lora-pager              | bMesh 32c2                   |                      |      | heltec-v3             |
| T Deck Complete              | Waialae Kahala        | Oahu | t-deck                    | bMeshtastic 637c             |                      |      | sensecap-indicator    |
| WH6OMG 51d1                  | Waialae Kahala        | Oahu | tracker-t1000-e           | Bombtastic                   |                      |      | heltec-v3             |
| HiMesh Project - Waianae     | Waianae               | Oahu | station-g2                | Bruh 45d0                    |                      |      | heltec-v3             |
| D3 31D                       | Waialele              | Oahu | heltec-v3                 | BXvin1                       |                      |      | tracker-t1000-e       |
| D3 31D w                     | Waialele              | Oahu | heltec-v3                 | CA-T1000-E-1                 |                      |      | tracker-t1000-e       |
| holdsteady                   | Waikiki               | Oahu | tracker-t1000-e           | CERT-OL-04                   |                      |      | station-g2            |
| Meshtastic 05b4              | Waikiki               | Oahu |                           | CERT-OL-B-Orchidland         |                      |      |                       |
| Meshtastic 4b27              | Waikiki               | Oahu |                           |                              |                      |      |                       |



|                                       |  |  |                       |                     |  |  |                       |
|---------------------------------------|--|--|-----------------------|---------------------|--|--|-----------------------|
| Chee Hoo                              |  |  | heltec-v3             | Meshtastic Terminal |  |  | rak4631               |
| Cincinnati Mobile Rock                |  |  | seed-wio-tracker-l1   | Meshtastic 03ac     |  |  | t-deck                |
| CoconutWireless CW-A                  |  |  | rak4631               | Meshtastic 0506     |  |  | heltec-mesh-mode-t114 |
| CoconutWireless CW-R                  |  |  | rak4631               | Meshtastic 059d     |  |  | tracker-t1000-e       |
| CoconutWireless CW-S                  |  |  | rak4631               | Meshtastic 0660     |  |  | rak4631               |
| COM2-HI                               |  |  | t-deck                | Meshtastic 06cc     |  |  |                       |
| COML HI d2f4                          |  |  | heltec-v3             | Meshtastic 078a     |  |  | tracker-t1000-e       |
| comt-5d7c                             |  |  | tracker-t1000-e       | Meshtastic 0892     |  |  |                       |
| CP-Base                               |  |  | rak4631               | Meshtastic 0c70     |  |  |                       |
| Crypto5                               |  |  | heltec-v3             | Meshtastic 1210     |  |  | rak4631               |
| D19G                                  |  |  | heltec-v3             | Meshtastic 1476     |  |  | rak4631               |
| Dominik                               |  |  | rak4631               | Meshtastic 147a     |  |  |                       |
| Elab b14c                             |  |  | heltec-v3             | Meshtastic 14b9     |  |  | rak4631               |
| EMCOM ESF-2                           |  |  | heltec-v3             | Meshtastic 15dc     |  |  |                       |
| ENTM_Paper                            |  |  | heltec-wireless-paper | Meshtastic 197c     |  |  |                       |
| ENTM_Peacock                          |  |  | t-deck                | Meshtastic 1a27     |  |  | rak4631               |
| ESF2M 739c                            |  |  | heltec-v3             | Meshtastic 2004     |  |  |                       |
| F2G1                                  |  |  | t-lora-v2-1-1p6       | Meshtastic 2026     |  |  | rak4631               |
| Frogstrap c5c5                        |  |  | rak4631               | Meshtastic 214a     |  |  |                       |
| gogo                                  |  |  | t-deck                | Meshtastic 214c     |  |  |                       |
| GreenGuy                              |  |  | heltec-v3             | Meshtastic 21f6     |  |  |                       |
| Harbor Breeze 01                      |  |  | rak4631               | Meshtastic 2528     |  |  | heltec-mesh-node-t114 |
| HAVERLY01                             |  |  | heltec-v3             | Meshtastic 25e0     |  |  |                       |
| Hawaiimeshmp                          |  |  | portduino             | Meshtastic 25f0     |  |  | station-g2            |
| Hi Mesh Project - Waialea CERT Team 1 |  |  | heltec-v3             | Meshtastic 2660     |  |  |                       |
| Iron Giant                            |  |  | t-echo                | Meshtastic 276a     |  |  | rak4631               |
| JavaMeshHome                          |  |  | heltec-v3             | Meshtastic 27c5     |  |  | rak4631               |
| Jays Node                             |  |  | rak4631               | Meshtastic 2849     |  |  | t-echo                |
| KSDCE Base                            |  |  | heltec-v3             | Meshtastic 2ac1     |  |  | rak4631               |
| KA4NQS f57c                           |  |  | heltec-v3             | Meshtastic 3163     |  |  | heltec-mesh-pocket    |
| KaiMT                                 |  |  | heltec-v3             | Meshtastic 3528     |  |  | t-echo                |
| Kamika 336b                           |  |  | tracker-t1000-e       | Meshtastic 3f68     |  |  |                       |
| Karah_WRXM997                         |  |  | tracker-t1000-e       | Meshtastic 4294     |  |  | t-beam                |
| KH6UU 5dd4                            |  |  | heltec-v3             | Meshtastic 4533     |  |  | rak4631               |
| KH7EC-C                               |  |  | heltec-v3             | Meshtastic 4ac0     |  |  | t-deck                |
| KH7TV Beam                            |  |  | llygo-tbeam-s3-core   | Meshtastic 4d45     |  |  | rak4631               |
| Kilohana Solar                        |  |  | rak4631               | Meshtastic 5073     |  |  | rak4631               |
| KR-IT-RC                              |  |  | tracker-t1000-e       | Meshtastic 556c     |  |  |                       |
| Kulamalu MQTT Maui                    |  |  | station-g2            | Meshtastic 5890     |  |  |                       |
| Lanikai looking @Kailua & Maui        |  |  | rak4631               | Meshtastic 5cfc     |  |  | heltec-v3             |
| LM - Turbotest                        |  |  | xiao-nrf52-kit        | Meshtastic 6190     |  |  |                       |
| LM-Rak                                |  |  | rak4631               | Meshtastic 61d4     |  |  | rak4631               |
| LM-TactCon                            |  |  | sensecap-indicator    | Meshtastic 63cd     |  |  | tracker-t1000-e       |
| LM-UDPtest                            |  |  | station-g2            | Meshtastic 6615     |  |  | rak4631               |
| M-1                                   |  |  | rak4631               | Meshtastic 696e     |  |  | heltec-v3             |
| Maus ab9a                             |  |  | tracker-t1000-e       | Meshtastic 6a2c     |  |  | tracker-t1000-e       |
| Meshtastic b6b8                       |  |  |                       | Meshtastic 6dbd     |  |  |                       |
|                                       |  |  |                       | Meshtastic 6ddc     |  |  |                       |



Meshtastic 6e34  
 Meshtastic 7060  
 Meshtastic 7280  
 Meshtastic 756c  
 Meshtastic 78a3  
 Meshtastic 7afc  
 Meshtastic 7b94  
 Meshtastic 7bd8  
 Meshtastic 7c78  
 Meshtastic 7d14  
 Meshtastic 7fc4  
 Meshtastic 8559  
 Meshtastic 8d30  
 Meshtastic 8ddf  
 Meshtastic 8f3c  
 Meshtastic 8fd1  
 Meshtastic 9650  
 Meshtastic 9940  
 Meshtastic 9c61  
 Meshtastic 9fbc  
 Meshtastic a0aa  
 Meshtastic a304  
 Meshtastic a5a4  
 Meshtastic a5dc  
 Meshtastic a978  
 Meshtastic aa80  
 Meshtastic abcb  
 Meshtastic ade8  
 Meshtastic b468  
 Meshtastic b7dc  
 Meshtastic b8ac  
 Meshtastic b9c9  
 Meshtastic b9f9  
 Meshtastic bac7  
 Meshtastic be24  
 Meshtastic be90  
 Meshtastic c0f0  
 Meshtastic ca88  
 Meshtastic cod4  
 Meshtastic cd50  
 Meshtastic ce9e  
 Meshtastic cfa5  
 Meshtastic d403  
 Meshtastic d514  
 Meshtastic d904  
 Meshtastic db70  
 Meshtastic df98



PIS-waveshare bfc2  
 Pi-zero 22db alpha  
 pi-zeroW-delta  
 RAK Solar KOKO  
 Rook Pro  
 Rookery CAW1  
 Rookland  
 Scooby Doo  
 SenseCap\_02  
 SKW1  
 Small Kine Lolo Papolo  
 solar block  
 Solar DannyK  
 Solar Oscar  
 Solar Snake 01  
 SolarBaker  
 Station G2  
 SunMesh 915a  
 T\_Beam\_5\_986c  
 T-Beam Beta  
 T-Beam Gamma  
 tdeck forrestk3  
 T-Echo a912  
 T-Echo c7a3  
 Thomas R1  
 TK\_Heltec\_V3  
 TRE1 9502  
 Uconsole  
 VEOC Test  
 VERT Deputy Planning Chief  
 VERT Fire Dept Liaison  
 VERT Medical Unit Lead  
 VERT Planning Section Chief  
 VERT-01  
 W4 Solar Ob3d  
 Wah\_Phiku\_1  
 WH6FIX 1  
 WH6FIX 2  
 WH6FXV-0  
 WH6FXV-1 000c  
 WH6GEJ RAK2  
 WH6GPZ-2  
 WH6OMG solar 1  
 WH6OMG Solar 2  
 WH7PD  
 X Tdeck



rak4631  
 t-beam  
 heltec-v3  
 tlora-v2-1-1p6  
 rak4631

rak4631  
 station-g2  
 tracker-t1000-e

heltec-v3  
 rak4631  
 heltec-v3  
 heltec-wireless-tracker  
 rak4631  
 heltec-v3

heltec-v3  
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tracker-t1000-e  
 heltec-v3

t-deck

portduino  
 portduino  
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 rak4631

t-echo  
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 heltec-v3  
 t-deck

Meshtastic dfe8  
 Meshtastic e128 (mobile)  
 Meshtastic e214  
 Meshtastic e744  
 Meshtastic e770  
 Meshtastic e9f0  
 Meshtastic ee90  
 Meshtastic f6b4  
 Meshtastic f728  
 Meshtastic f7c4  
 Meshtastic f830  
 Meshtastic f8d0  
 Meshtastic f934  
 Meshtastic fbaf  
 Meshtastic fc73  
 Meshtastic fe54  
 Meshtastic d0d0  
 MiMobile  
 Mkk8  
 mkkD  
 mkkP  
 mkkT  
 MLCS-2  
 MLE\_752c  
 MLE\_Net a5b8  
 MLE\_Net ce65  
 Mobuid T1000-E  
 Monkey 8044  
 msunset  
 MT3  
 NEEZ  
 Nibbler 8de4  
 Node Collector EDC Muzi  
 NorthWest 2  
 NorthWest Base  
 Norwood-Online  
 ORCA Hapuna  
 ORCA T1000e  
 ORCA Tdeck Plus (mobile)  
 ORCA Westside  
 Orcatdeck  
 Paper c244  
 PatchZero.Prime  
 Patti  
 Pher Mobile  
 pi3-30db-echo  
 pi3a-cd98

heltec-v3  
 t-deck

heltec-v3  
 heltec-v3

t-deck  
 station-g2  
 heltec-v3  
 heltec-v3  
 heltec-v3  
 heltec-v3  
 xiao-nrf52-kit

heltec-v3  
 heltec-v3  
 lilygo-tbeam-s3-core  
 heltec-v3  
 heltec-v3  
 heltec-v3  
 heltec-v3  
 station-g2  
 heltec-v3  
 rak4631  
 tracker-t1000-e  
 rak4631  
 t-deck  
 tlora-v2-1-1p6  
 heltec-v3  
 heltec-v3  
 rak4631

heltec-v3  
 heltec-v3  
 rak4631  
 tracker-t1000-e  
 t-deck  
 rak4631  
 t-deck  
 heltec-wireless-paper  
 heltec-wsl-v3  
 rak4631  
 tracker-t1000-e  
 portduino  
 portduino

## Meshtastic



A LILYGO TTGO T-Beam running in client mode on battery power.

**International standard**

Based on LoRa, Bluetooth, Wi-Fi

**Compatible hardware**

Supports ESP32, nRF52840 and others

**Physical range**

Typically 2–5 km (1.2–3.1 mi), upwards of 100 km (62 mi) possible via mesh

**Website**

[meshtastic.org](https://meshtastic.org)