



August 2025

# THE BIG ISLAND HAMGRAM

The newsletter of the Big Island Amateur Radio Club



**KH7DQ, WH6JOE AND KH6CZ pack up the Net Control Station after a busy morning in Volcano.**

*Photos by WH6LQ and KH7DQ*

## 9 hams volunteer for radio comms duty at Volcano 'Ohi'a Lehua runs

Nine ham radio operators volunteered once again, to provide radio communications for the 2025 Volcano's 'Ohi'a Lehua Half-marathon and 5k Runs held on July 26.

"Radio stations were set up throughout the course, including net control at the start/finish line to provide real time status reports on the runners and emergency traffic when needed. There were 337 runners in this year's race and all but one finished the race without incident. One runner sprained her ankle at the half-way mark of the Half Marathon and our radio operators facilitated her transportation back to the start line and aid station," said Doug Wilson (KH7DQ) who coordinated communications for the race.

Participating radio operators included Doug Wilson at the Net Control Station, David Miller (KH6CZ) at Aid Station #1, Joe Rosenbaum

*Continued on next page*



**Race day dawns.**



**The last runner crosses the finish line.**

## August meeting to focus on helping Technicians enjoy working 10 meters

The next Big Island Amateur Radio Club membership gathering will be from 2-5 p.m. Sunday, Aug. 10, at Kamana Senior Center at 127 Kamana St. in Hilo.

This month's program will be on 10 meter operations for Technician class licensees. The regular executive board meeting starts at noon. Links to both meetings are on the BIARC website (<https://www.biarc.net/>)

At the July 13 membership gathering, Jim Tatar, WH6EMN, announced that BIARC has been asked to help with parade assembly coordination for the Saturday, Nov. 8, Veterans' Day Parade in downtown Hilo. More details will be forthcoming.

John Bush, KH6DLK, made a special presentation of door prizes guaranteed to give them a "jump start" into the world of ham radio to Ambrose Kapon, 12, and his dad, Mark.

KH6DLK also made a presentation to Bob Schneider, AH6J, of a geriatric 2-meter rig originally owned by Richard and Barbara Darling, silent keys who were stalwart leaders of BIARC for many years. It's an IC2100H.

The main portion of the meeting was devoted to William Polhemus, NH6ET, and the club's acknowledged expert on the subject, Roy Kunishige, KH6KU, giving a rundown on how to install the club's ATAS120 screw-driver antenna to get optimum results.

Failure to make contacts with the antenna and our FT911A radio has upset users, most recently at the BIARC Field Day at the end of June.

To get results, the antenna needs to be set up correctly, using the proper installation methods and auxiliary equipment. Along the way, Roy and William offered the do's and don'ts, and many tips for putting the ATAS into play.

A second session will focus on a primer on how to successfully use the equipment.

## Grid Madness

News flash!

This popular Hawaii VHF/UHF simplex contest will return Sunday, Sept. 28, from 1300 to 1900W.

The event's blogspot will be updated with new details for this year, so check that out soon at <https://gridmadness.blogspot.com/>. Full information on the fun event will be printed in the September Hamgram.



Runners on Wright Road.

## Hams help Volcano races run smoothly

From Page 1

(WH6JOE) at Aid Station #2, Ellen O'Dunn (WH6FRV) with Course Marshall #2, Fred Fischer (WH6HAA) with Course Marshall #3, Bob Becker (WH6ESC) with Course Marshall #4, Linda Quarberg (WH6LQ) at the 5k Turnaround, Tom Fischer (KH6TD) at the Haunani Road Turnaround and Paul Ducasse (WH7BR) with Police Officer #1.

The weather was perfect with sunny blue skies throughout the race, although it might have been a little on the cool side for some when the race first started.

"Our ham radio volunteers did an excellent job, as expected, keeping track of runners as they

made their way around the course and provided real-time runner status reports from the field to Net Control and race headquarters throughout the race," reported Doug. "They also got in some good radio procedure practice, including the use of tactical call signs and finding the best spot at their respective stations for the optimal signal into the Volcano Repeater and Net Control."

"Radio operators also enjoyed the interaction with runners as they made their way around the course," said Doug. "Thanks to all for their community service and stepping up to the plate to assist the runners!"



Start of the half marathon race.

## 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).





*Photos by Mark Watanabe, WH6FSA*

Graduates of the two intense days of training celebrate outside the Hawaii County Civil Defense Agency EOC headquarters in Hilo on Sunday, Aug. 3. Trainers were Carter Davis and Dan Willis.

## Isle hams complete two-day Aux Comm Training Course Aug. 2-3 in Hilo

This training is an in-person, 2-day, 10-hour per day class, 20-hour course. All Aux Comm Communicators across the USA fulfill these requirements. A second session is in the works for Kona.



# Hawaii QSO Party

[www.hawaiiqsoparty.org](http://www.hawaiiqsoparty.org)



## Hawai'i Stations – Working the World!

**August 24-26, 2024. We hope you had fun. Results are [here](#).**

**The next one will be August 22-24, 2025.**

[www.hawaiiqsoparty.org](http://www.hawaiiqsoparty.org)

The **Hawai'i QSO Party (HQP)** is an event to promote HF operation from the unique Hawai'i destination in the Pacific. Hawai'i is an ARRL DXCC entity as well as the nation's 50th state needed for the ARRL WAS Award.

### Some common questions:

- \* Grid Squares are allowed instead of QTH name IF the mode does not allow QTH names to be logged. For details click [HERE](#)
- \* HI stations may move from one district to another if they identify as being in that district. For example: AH7RF/KOH is a different station than AH7RF/KON and can be worked again on the same band and mode. Such mobile stations must submit a separate log for each activation.
- \* HI stations may activate multiple districts by sitting on the boundary with some part of their operation in each. They must identify each such as AH6RF/KOH/KON. Log such contacts as TWO contacts. Each is scored separately and not considered duplicate.
- \* Other contests run concurrently or overlap with HQP. For instance, WW Digi, OH and KS QSO parties. You can enter any or all of them and send a combined log to us so long as you have at least one Hawaiian QSO. Then send the same log to the other contest sponsors. Or, keep separate logs for each. Your choice.
- \* When uploading your log be sure to include this line in your Cabrillo header:  
**CONTEST: HI-QSO-PARTY**
- \* Having trouble generating a Cabrillo log file? Try this handy [webform](#).
- \* UPLOAD your log here: [HQP Log Upload Page](#)
- \* Spotting is allowed and encouraged. Check out this [tool](#).  
Please note that **spotting yourself** is NOT allowed.







## Keeping in touch

*A few "oldies but goodies" enjoy rag-chewing about the good old times of radio days recently in Hilo. Ben Blatt, NH7D, licensed in 1959; Robert Shimamoto, KH6BMM, licensed in 1954, and his son-in-law, Art Arruda; David Nardini, KH9AB, licensed in 1976; Johnson Marshall, a friend of David; Rick Gardner, WH6LU, licensed in 1975; Robert Gomez, KB6EGA/H6, licensed in 1985. Photo taken at lunch in mid July at Hilo Municipal Golf Course's Fairway Restaurant.*

## Hams: Please kokua monthly Maunakea Repeater test, siren monitoring

On the first working day of each month, all hams are invited to participate in the monthly Maunakea Repeater Test Net and Siren Net. The Hawaii County Civil Defense Agency ACS Net will be activated at 11:30 a.m. on 146.820 MHz, negative offset. Use a PL tone of 123.0. (Results of this month's exercise are printed on Page 6 of this newsletter.)

The Maunakea Repeater has now been activated by our Hawaii County Civil Defense Agency for real world incidents. This highlights the fact that it is an important alternative communications pathway when regular means of communications fail. Please make use of these test nets, on the first working day of each month. It is especially important for stations in Hawaii County to be sure that you have the ability to communicate on this repeater. Your community may need this link to our County EOC in times of emergency.

We encourage all licensed amateur radio operators to participate.

If you can hear net control, there is a reasonable chance that you will be able to successfully access this repeater. An HT radio may not be sufficient, depend-

ing on your location. If you add a gain antenna or move to a higher location your chances will improve. Stations may have better success when using a transmitter with an output of 25 watts or more.

Please check in when requested by net control. If your check-in is not acknowledged, make more than one attempt when the frequency is clear. At the beginning of the net we focus on the check-ins of Hawaii County Stations who have adopted an All Hazards Siren to report on. After the sirens sound at 11:45 AM, we will take siren reports, followed by general check-ins and radio checks.

The siren reporting typically concludes by noon. I will leave enough dead air to give everyone a chance to try multiple locations, radios, or antennas. I will acknowledge every transmission heard, even if it is only a mic break. I encourage new operators to reach out to more experienced operators, who may be able to assist you in programming your radios. Nearby stations can also listen in on 146.220 MHz input frequency, to help you to verify that your radio is working. We are looking to increase the number

of check-ins on the Maunakea repeater. If you try but are unable to transmit into the repeater, please let me know via email at [tonykitchen808@gmail.com](mailto:tonykitchen808@gmail.com). I would like to know your location, the output power you were transmitting at, and the type of antenna you used.

As in previous months, you may also submit Hawaii County Siren reports via your local Hawaii Island station on the Hawaii/Mainland AllStar repeater network. Visit: <https://hawaii-county-civil-defense-agency-hawaiicountygis.hub.arcgis.com/pages/warning-sirens> for more information about the All Hazard Warning Sirens. There is also a link at the bottom of the page which provides you with an alternate means of reporting. In blue sky conditions, the Maunakea repeater is only activated for 1 hour on the first working day of each month. Please take the opportunity to evaluate and improve your ability to reach this important link to our Hawaii County Civil Defense Agency.

Thank you for your participation.

73,  
Tony Kitchen, WH6DVI

# The Hawaii County Siren Report for July 2025

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

| Location                                    | Observer | Mode      | Status            | Notes             |
|---|----------|-----------|-------------------|-------------------|
| NOT WORKING                                 |          |           |                   |                   |
| HOVE Shopping Center #1 Kuhio Blvd ( KH7MS  |          | DMR       | Not Working       | car accident      |
| Kolekole (HA112)                            | KH6RDO   | Allstar   | Not Working       | rotates, no sound |
| Waikamalo Park Ninole (HA123)               | WH6FIQ   | Email     | Not Working       |                   |
| HOVE Shopping Center #1 Kuhio Blvd ( WH6EIX |          | DMR       | Not Working       | car accident      |
| Ookala (HA304)                              | WH6GDC   | Allstar   | Not Working       |                   |
| PARTIALLY WORKING                           |          |           |                   |                   |
| Shipman Park Keaau (Ha901)                  | AH6J     | Mauna Kea | Partially Working | low volume        |
| WORKING                                     |          |           |                   |                   |
| Ainako Park (HA117)                         | WH6FSA   | Mauna Kea | Working           |                   |
| Alii Kai Subdivision Kona (HA603)           | WH6HCE   | DMR       | Working           |                   |
| Cooper Center Volcano (HA936)               | KH7DQ    | Mauna Kea | Working           |                   |
| Downtown Federal Bldg (HA107)               | WH6HBH   | Allstar   | Working           |                   |
| Hakalau (HA113)                             | WH6ECX   | Allstar   | Working           |                   |
| Hawaiian Beaches Park #1 (HA907)            | KH7LM    | Mauna Kea | Working           |                   |
| Honoapu (HA802)                             | WH6HC    | DMR       | Working           |                   |
| Honolulu (HA111)                            | KH6RDO   | Allstar   | Working           |                   |
| HOVE Reef Blvd #3 (HA809)                   | WH6FC    | DMR       | Working           |                   |
| HOVE, #1 Leilani (HA805)                    | WH6HDG   | DMR       | Working           |                   |
| HPP #1 Paradise / Ala Kai (HA925)           | KH6CZ    | Mauna Kea | Working           |                   |
| HPP #2 4th & Awapuhi (HA912)                | WH6HAA   | Mauna Kea | Working           |                   |
| HPP #3 6th & Makuu (HA913)                  | NH6OV    | Mauna Kea | Working           |                   |
| Kamehameha Park Kohala (HA503)              | WH7WZ    | Text      | Working           |                   |
| Kaunaloa School (HA125)                     | KH7BR    | Email     | Working           |                   |
| Kawaihae Harbor (HA407)                     | WH6EHJ   | Mauna Kea | Working           |                   |
| Kehana Beach (HA916)                        | KH6AQ    | Text      | Working           |                   |
| Keokea Park Kohala (HA502)                  | WH7RE    | Text      | Working           |                   |
| Laupahoehoe Point (HA202)                   | WH6FSI   | Email     | Working           |                   |
| Lelewi (HA101)                              | KI6HBZ   | Allstar   | Working           |                   |
| Lowe's Store Pepeekeo                       | KO6QT    | Allstar   | Working           |                   |
| Mountain View (HA901)                       | WH6EPS   | Text      | Working           |                   |
| Naalehu (HA801)                             | WH6HC    | DMR       | Working           |                   |
| NELHA Kona (HA611)                          | WH6GTD   | Text      | Working           |                   |
| Paaui (HA301)                               | AH6JA    | Email     | Working           |                   |
| Pahala (HA804)                              | WH7BR    | Allstar   | Working           |                   |
| Punaluu / Sea Mountain (HA803)              | AJ0T     | DMR       | Working           |                   |
| Waa Waa (HA937)                             | NH7PE    | Text      | Working           |                   |
| Waiaka Bridge Kamuela (HA402)               | WH6EHJ   | Mauna Kea | Working           |                   |
| Waimea Park Kamuela (HA401)                 | WH6EHJ   | Mauna Kea | Working           |                   |
| HOVE Reef Blvd #3 (HA809)                   | WH6EPH   | DMR       | Working           |                   |
| Mohouli Park (HA120)                        | WH6GNK   | Email     | Working           |                   |



The BIARC channel on  
Youtube is: <https://www.youtube.com/@BigIslandAmateurRadio-Club>

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

<https://discord.gg/U3f9wsrj>







## PJ2T Curacao video released

Friends and family,

(In mid July) I released a video about the March ham radio contest in Curacao.

This is an extensive 51 minute production that can be understood by non-hams, by hams who do not contest, and of course by contesters themselves. This is the first known comprehensive documentary video about a contest team's full week at PJ2T. It contains considerable on-the-air audio correlated with video of the operators at work and the dynamically updating station log.

Besides being of interest to contesters, you could use it to show non-ham friends and family what it is you do when you fly away to Curacao for a week, and to give them a sense of what it's like to be there.

Feel free to distribute this link to anyone anywhere.

Please distribute the links to your local radio club lists where able.

There are three ways to watch it.

On YouTube you can go to <https://www.youtube.com/watch?v=d2zeh7wie0k>.

Or simply go to YouTube and then search on "Sights and Sounds of PJ2T."

Sit in the Operator's Chair at PJ2T and Experience Ham Radio Contesting and Pileups - ARRL SSB 2025

Sights and sounds of PJ2T winning a world championship in the ARRL DX SSB contest, March 2025. This will show non-ham operators what we do in our on-air comp... [www.youtube.com](http://www.youtube.com)

3. If you want a higher resolution version that has not been mutilated by YouTube's aggressive data compression algorithms, you can go to

<http://www.pj2t.org/ccv/Video/arrlssb2025.mp4>

Sorry this took so long. I was not able to get started on this until early last week, but once started I put in a pretty intense effort on it.

Thanks, 73,  
Geoff / IdahoGeoff, W0CG

# BIARC Executive Board meeting minutes

Subject to final revision and approval at the next BIARC Executive Board meeting.

July 13, 2025

## Kamana Senior Center

The meeting was called to order at 12:17 pm by Board President Thomas Avila. A quorum of 7 board members were present.

### Attendance:

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

### Secretary's Report and Minutes:

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

### Treasurer's Report:

- See attached.
- Discussion was held that everyone running for the board next year along with those board members whose terms expire after the 2026 election should receive training on the Treasurer's duties, for the eventual replacement of the Treasurer. As of 7/12/25 BIARC now has 60 paid members. We have reached and exceeded our \$1300 budget estimate of dues receipts for 2025. There were new disbursements since the last report:
  - Check#1864 \$296.38 (USPS. PO Box Fee through 6/30/2026)
  - via PayPal: \$333.15 (Digital Systems Committee: Purchase of 3 Meshtastic G2 Units)
  - via PayPal: \$17.18 (Payment to Namecheap Inc, for our BIARC.Net website domain registration fee, covering from 7/11/2025 to 7/10/2026)

### Field Day Expense Reimbursements:

- \$48.39 to Joseph Rosenbaum, WH6JOE: Reimbursement for field day supplies.
- \$31.39 to Tony Kitchen, WH6DVI: Reimbursement: 2 Pizza Hut Pizzas.

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

### Committee Reports:

#### Digital Systems:

- The Digital Systems Committee had a meeting on the evening of July 8th. Various topics were discussed. The biggest area where progress has been made recently is ordering 3 Meshtastic devices for BIARC sites. Two of these will replace club member "loaned" equipment currently installed at Mauna Loa and Pepe'ekeo sites. These new nodes have arrived on-island. A suggestion was made to replace the mast at Pepe'ekeo prior to mounting the new Station G2 mesh node there, as the existing mast pole is rusted badly. The committee plans to soon ask the board for approval to purchase the new mast (24ft, 2 inch ID schedule 40 steel pipe) from a local supplier, as well as any other hardware/items necessary to complete this work, and will then plan a work day sometime late this summer. A request for help from volunteers may be made closer to the time of the planned work -- stay tuned!
- Additional items of interest, including VARA/Winlink, APRS, and SDRs for monitoring digital HF modes, were also discussed this month, but no plans have been advanced due to limited time available from the committee members. Any club member interested in these (or other digital topics) is invited to contact the committee.

#### Education and Outreach:

- See attached. The Museum of Science and Technology has invited us back this coming school year to participate in island schools science events. The first event will be on August 19, 2025 at Kea'au Elementary School at 4:30 pm.



## **July 13 Executive Board minutes**

*Continued from previous page*

William moved and Thomas seconded to migrate the contents of the club's Dropbox account to the Google Drive associated with the [biarc.board@gmail.com](mailto:biarc.board@gmail.com) account, which will be the official repository for Biarc records.

### **Operating Activities:**

- Held the annual Field Day event on June 28th at Wailoa State Park in Hilo. We experienced some radio and antenna issues that William will address at today's program. Preparations are being made for the annual CQWW SSB event on October 25, 2025.

### **Programs:**

- Today's program will be on the recent Field Day radio and antenna issues. The August program will be on hurricane season preparation.

### **Public Service Communications:**

- Nothing new to report.

Discussion was held on the club's website([biarc.net](http://biarc.net)) regarding moving the membership records online which would allow for continuity of operations because it gives members the ability to self-service their records. An online database to apply automation to records was also discussed.

Discussion was held on the request for BIARC members to volunteer for the Veterans Parade on November 8, 2025.

### **Voice Repeaters:**

- Nothing new to report.

Discussion was held on the editing and archiving of the club's constitution and by-laws.

Jim Tatar reported that Senator Joy San Buenaventura asked us to find the bill that governs raffles for non-profit entities, in response to our request for her to sponsor a bill that would allow for limited raffles.

Thomas moved and David seconded to adjourn the meeting at 1:22 pm. Motion passed.

### **Next meetings:**

- The next meeting will be held on August 10, 2025 at the Kamana Senior Center in Hilo. The Executive Board meeting will be at 12:00 pm and the member activity will be at 2:00 pm. Both meetings can be attended online, the links are on [biarc.net](http://biarc.net)

Respectfully submitted,

Joseph Rosenbaum

Secretary

### **Check out recent ARRL audio news program**

Rick Ward WH6FC from Oceanview did a net on 7.090 Irb for the tsunami watch at the end of July. He (along with Alan Maenchen) are both mentioned on the ARRL audio news. (Check between 50 seconds and 1:30 minutes into the program.)

Here's the link:

<https://blubrry.com/arrrlaudionews/147440734/arri-audio-news-august-1-2025/>

## BIARC donated funds summary

As of: 7/12/2025

| <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                      | -\$59.75                             |
| 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        |                                       | \$378.74                      | \$333.15   | \$333.15                      | <b>\$3,081.04</b>                    |

**Notes:** This fund holds amounts donated to be used for repeater 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        |                   |                     |                |

## Here's how to report damage, seek help after disaster hits

We can all make a positive impact on our communities if we are familiar with the various ways to report damage and request assistance. Please visit the Hawaii County Civil Defense website at: <https://hawaii-county-civil-defense-agency-hawaiicountygis.hub.arcgis.com/>

The best way to report damage is to scroll down to the bottom of the page and click the link to "Disaster Recovery" or go directly using the following link: <https://hawaii-county-civil-defense-agency-hawaiicountygis.hub.arcgis.com/>

### pages/disaster-recovery

Select the applicable option for reporting residential, commercial, or agriculture damages. The request for assistance option is for non-life threatening assistance, such as if a power failure may lead to an urgent medical care related situation.

Civil Defense is monitoring the requests for assistance that come in via this website. You may also contact CD directly via telephone at:  
(808) 935-0031 - Business Hours  
(808) 935-3311 - After Business

### Hours

As always, emergency/life threatening situations should be reported to 911 first. If 911 fails, then contact a radio operator who has access to 911, or an ACS station.

The Maunakea ACS repeater on 146.820 MHz, negative offset, tone 123.0 remains active for this event.

73,  
--

*Tony Kitchen, WH6DVI  
ACS Net Control*



# BIARC Operating Statement

|                                | <u>2025 Budget</u>       | <u>Actual 7/12/25*</u>   |
|--------------------------------|--------------------------|--------------------------|
| <b>Income:</b>                 |                          |                          |
| Dues                           | \$1,300.00               | \$1,317.50               |
| Repeater and general Donations | \$400.00                 | \$378.74                 |
| Humanitarian Donations         | \$100.00                 | \$0.00                   |
| PayPal Convenience Fees        | \$26.00                  | \$40.51                  |
| <b>Total Income</b>            | <b><u>\$1,826.00</u></b> | <b><u>\$1,736.75</u></b> |

## General Fund Disbursements:

### **Committees**

|                               |          |          |
|-------------------------------|----------|----------|
| 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   |

### **Club Administration**

|                                |                          |                          |
|--------------------------------|--------------------------|--------------------------|
| Club Liability Insurance       | \$220.00                 | \$200.00                 |
| Club Equipment Insurance       | \$220.00                 | \$0.00                   |
| Equipment                      | \$400.00                 | \$0.00                   |
| P. O. Box Fee                  | \$280.00                 | \$296.00                 |
| Humanitarian Awards            | \$0.00                   | \$0.00                   |
| Office Supplies/Bank Fee/Misc. | \$10.00                  | \$0.00                   |
| Online Services                | \$175.00                 | \$216.12                 |
| Paypal Transaction Fees        | \$46.00                  | \$20.13                  |
| <b>Total Expenses</b>          | <b><u>\$1,926.00</u></b> | <b><u>\$1,183.18</u></b> |

**Net (Income - Expenses)** **\$553.57**

## Account Balances:

as of: 7/12/25

|                             |                          |
|-----------------------------|--------------------------|
| BOH checking Account        | \$4,237.60               |
| Namecheap Balance (Website) | \$1.00                   |
| Paypal Account Balance      | \$1,375.49               |
| <b>Total</b>                | <b><u>\$5,614.09</u></b> |

## Fund Balances: (7/12/25)

|                     |                          |
|---------------------|--------------------------|
| Infrastructure fund | \$3,081.04               |
| Humanitarian Fund   | \$467.00                 |
| Emergency Reserves  | \$1,000.00               |
| General Fund        | \$1,066.05               |
| <b>Total Funds</b>  | <b><u>\$5,614.09</u></b> |

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

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

## **BIARC Education & Outreach Committee Report – July 1, 2025**

### **Activity**

June – Paused outreach to Puna Elementary schools due to summer break.

June 2 – Participated by BIARC/E&OC members in the Siren Test Net (VOAD and All Star).

June 8 – Attended BIARC Executive and Member Meetings at Kamana Center.

June 11 – Scheduled E&OC support of the Hawaii Museum of Science and Technology for repeat program in the next school year.

June 12 – Attended with BIARCE&OC in the County of Hawaii/HCCDA Auxiliary Communications Service summit meeting.

June 17 – Met with the Kamana Seniors Center and arranged, going forward, for BIARC reservation of the Kamana Center for the 2nd Sunday of each month from 1200 to 1700 for consecutive Executive and Member meetings.

June 18 – Attended HVOAD monthly Combined committee Meeting over Zoom.

June 28 – Participated in ARRL Field Day.

### **Scheduled**

July 1 – Participate in the Siren Test Net.

July 5 – Represent BIARC at the Glenwood Emergency Preparedness Meet.

July 13 – Attend BIARC Executive and Member Meetings.

July 16 – Attend HVOAD Combined Committee Meetings via Zoom

July 26 – Support Ohia Lehua Run event in Volcano in conjunction with KH6DQ.

### **Planned**

- Further development of ham radio via Video Programming.
- Finalize "Minor" Photo Release procedures for E&OC supported events.

### **BIARC E&OC Membership**

Leigh Critchlow WH6LC, Fred Fischer WH6HAA, David Miller KH6CZ, Joe Rosenbaum WH6JOE, Jim Tatar WH6EMN, Mark Watanabe WH6FSA, Les Hittner K0BAD

David Miller, Education and Outreach Committee, BIARC



| Name                   | Approximate Location | Island       | Device                    |
|------------------------|----------------------|--------------|---------------------------|
| LM-Experimental        |                      | East Volcano | portduino                 |
| Dewey, nh6m            | Ahikawa Kailua-Kona  | Hawaii       | heltec-wireless-tracker   |
| Meshtastic cc7f        | Ahikawa K-K          | Hawaii       |                           |
| WH6HAA-M1              | Ainaloa              | Hawaii       | tracker-t1000-e           |
| HBMC1                  | Amalu                | Hawaii       | station-g2                |
| Farley- Server         | East Volcano         | Hawaii       | station-g2                |
| Foh-ENV                | East Volcano         | Hawaii       | rak4631                   |
| Hitciker               | East Volcano         | Hawaii       | tracker-1000-e            |
| hitciker rf            | East Volcano         | Hawaii       | heltec-v3                 |
| hitciker-udp           | East Volcano         | Hawaii       | portduino                 |
| LM-Base                | East Volcano         | Hawaii       | station-g2                |
| LM-Meshsense           | East Volcano         | Hawaii       | heltec-v3                 |
| LMTK-7c                | East Volcano         | Hawaii       | tracker-t1000-e           |
| Nurse Dude Alphanuz    | East Volcano         | Hawaii       | heltec-mesh-mode-t114     |
| Nurse Dude tdeck       | East Volcano         | Hawaii       | t-deck                    |
| Nurse Dudes Vision     | East Volcano         | Hawaii       | heltec-vision-master-t190 |
| Ranches base           | East Volcano         | Hawaii       | rak4631                   |
| WH6GXZ Mini Mesh       | East Volcano         | Hawaii       | portduino                 |
| wh6gxz-udp             | East Volcano         | Hawaii       | portduino                 |
| WH6GZX-Fox             | East Volcano         | Hawaii       | portduino                 |
| Kohala 8CA6            | Hawi                 | Hawaii       | rak4631                   |
| 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            |
| WH6GIX                 | Hillside-Sunrise Sub | Hawaii       | tlora-v2-1-1p6            |
| BB30                   | Hilo                 | Hawaii       | heltec-v3                 |
| Canuck                 | Hilo                 | Hawaii       | rak4631                   |
| Demo1                  | Hilo                 | Hawaii       | station-g2                |
| KH6RDO Hilo            | Hilo                 | Hawaii       | rak4631                   |
| Meshted Potatoes       | Hilo                 | Hawaii       | station-g2                |
| Meshtastic 3151        | Hilo                 | Hawaii       | t-echo                    |
| PHTO                   | Hilo                 | Hawaii       | rak4631                   |
| PM T1000 d7e0 (mobile) | Hilo                 | Hawaii       | tracker-t1000-e           |
| 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           |
| Solar Pad alpha        | Honokaa              | Hawaii       | rak4631                   |
| AH6DL 6DL1             | Honomu               | Hawaii       | rak4631                   |
| AH6DL Honomu T         | Honomu               | Hawaii       | Liligo t-beam S3 core     |
| AH6DL roam a05e        | Honomu               | Hawaii       | t-echo                    |
| HOV2 c318              | HOVE                 | Hawaii       | heltec-v3                 |
| KH7MS-Home             | HOVE                 | Hawaii       | heltec-v3                 |

|                           |                   |        |                           |
|---------------------------|-------------------|--------|---------------------------|
| Meshtastic ace1           | Lower Waimea Town | Hawaii |                           |
| solar monolith            | Lower Waimea Town | Hawaii | rak4631                   |
| LMTK-23ac                 | Mana              | Hawaii | rak4631                   |
| HPKU Hale Pohaku          | Mauna Kea         | Hawaii | station-g2                |
| k0den                     | Mauna Lani        | Hawaii | t-deck                    |
| Solar Tango Mauna Lani    | Mauna Lani        | Hawaii | rak4631                   |
| MLOA-01 BIARC             | Mauna Loa         | Hawaii | station-g2                |
| AREDN_Data                | Mountain View     | Hawaii | heltec-vision-master-t190 |
| 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             |
| Meshtastic 2d76 (mobile)  | Mud Lane Waimea   | Hawaii | tracker-t1000-e           |
| AH6V-00ec                 | 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           |
| Paauiio Mauka 1609        | Paauiio           | Hawaii | rak4631                   |
| Wardriver (mobile)        | Paauiio 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             |
| Meshtastic 195f           | Pohakuloa         | Hawaii | rak4631                   |
| 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                   |
| 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           |
| HA01 (mobile)             | Volcano           | Hawaii | tracker-t1000-e           |
| KH6GG (mobile)            | Volcano           | Hawaii | t-deck                    |
| KH6GG Node 2              | Volcano           | Hawaii | heltec-vision-master-t190 |
| KH7DQ                     | Volcano           | Hawaii | tracker-t1000-e           |
| Meshtastic 2b34           | Volcano           | Hawaii |                           |
| Meshtastic d3a0 KH7DQ     | Volcano           | Hawaii | station-g2                |
| WH6DGM 1424               | Volcano           | Hawaii | heltec-v3                 |
| WH6DGM 5a60               | Volcano           | Hawaii | heltec-v3                 |
| WH6EBS-M1                 | Volcano           | Hawaii | tracker-t1000-e           |
| WH7BR-Base                | Volcano           | Hawaii | rak4631                   |

# MESH-TASTIC MODE NODE MAP GROWS EACH DAY

## STATE-WIDE LISTING AS OF LATE JULY



More nodes on next 2 pages



|                           |                     |        |                         |
|---------------------------|---------------------|--------|-------------------------|
| KH7MS-M2                  | HOVE                | Hawaii | heltec-v3               |
| Ranchos_meshtastic e888   | HOVE                | Hawaii | tlora-v2-1-1p6          |
| Ranchos2                  | HOVE                | Hawaii | nano-g2-ultra           |
| WH6FC_Mesh_dcc6           | HOVE                | Hawaii | t-echo                  |
| 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 PJ 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              |
| Ahikawa NH6M              | Kalaoa              | Hawaii | heltec-v3               |
| Dewey nh6m                | Kalaoa              | Hawaii | heltec-wireless-tracker |
| Kalaoa 1490               | Kaloko              | Hawaii | rak4631                 |
| Meshtastic 6c0d           | 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             | Keaau               | Hawaii | heltec-v3               |
| Mesh HPP c9a0             | Keaau               | Hawaii | heltec-v3               |
| Meshtastic ee30           | Keaau               | Hawaii | tlora-v2-1-1p6          |
| Keahole pt                | Keahole Airport     | Hawaii | rak4631                 |
| Meshtastic c78b           | Keaukaha            | Hawaii | tracker-t1000-e         |
| 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 CC58           | Kilohana Scout area | Hawaii | heltec-v3               |
| Kalopi repeater           | Kohala Mtn Rd       | Hawaii | heltec-v3               |
| Station G2 Control        | Kohala Mtn Rd       | Hawaii | station-g2              |
| Acti+B3:B17on Potential   | Kona Village        | Hawaii | t-echo                  |
| Meshtastic 1b64           | Lalamilo            | Hawaii | heltec-v3               |
| Meshtastic 2fc5           | Lalamilo            | Hawaii | rak4631                 |
| Meshtastic 5e38           | Lalamilo            | Hawaii | rp2040-lora             |
| Meshtastic 6453           | Lalamilo            | Hawaii | t-echo                  |
| Meshtastic be48           | Lalamilo            | Hawaii | lilygo-tbeam-s3-core    |
| Meshtastic cc87           | Lalamilo            | Hawaii |                         |
| PI400-30db                | Lalamilo            | Hawaii | portduino               |
| KH6EKD-2                  | Laupahoeohoe        | Hawaii | heltec-v3               |
| KB SenseCAP Tracker ca9a  | Lower Palasides     | Hawaii | tracker-t1000-e         |
| WH6GXZ-ecom               | Lower Volcano       | Hawaii | portduino               |
| H2T                       | Lower Waimea Town   | Hawaii | heltec-mesh-node-t114   |

## COMPILED BY KH6RDO

|                               |                  |        |                       |
|-------------------------------|------------------|--------|-----------------------|
| WH7BR-M1                      | Volcano          | Hawaii | tracker-t1000-e       |
| HiMesh Project - Moku O Keawe | Waiakea Uka      | Hawaii | heltec-wsl-v3         |
| Meshtastic da94               | Waianuenue Hilo  | Hawaii | heltec-v3             |
| Solar HP                      | Waikii Waimea    | Hawaii | rak4631               |
| solar waikii west             | Waikii Waimea    | Hawaii | rak4631               |
| Waikii                        | Waikii Waimea    | Hawaii | rak4631               |
| Meshtastic 0488               | Waikoloa         | Hawaii | t-deck-pro            |
| Orca Techo                    | Waikoloa Village | Hawaii | t-echo                |
| Drone                         | Waimea           | Hawaii | tracker-t1000-e       |
| elab router pi4-30db ba5a     | Waimea           | Hawaii | portduino             |
| Hawi Rd Waimea e3c9           | Waimea           | Hawaii | rak4631               |
| Hokuula Solar                 | Waimea           | Hawaii | heltec-v3             |
| HPA MQTT Gateway              | Waimea           | Hawaii | rak4631               |
| Mana Road 59ab                | Waimea           | Hawaii | rak4631               |
| Meshtastic 0429               | Waimea           | Hawaii |                       |
| pi4-30db-hoku desk            | Waimea           | Hawaii | portduino             |
| PI4K-30db                     | Waimea           | Hawaii | portduino             |
| solar mini alpha              | Waimea           | Hawaii | rak4631               |
| solar mini block              | Waimea           | Hawaii | rak4631               |
| solar monolith beta           | Waimea           | Hawaii | rak4631               |
| Waikii 74c0                   | Waimea           | Hawaii | heltec-v3             |
| Waikii G2                     | Waimea           | Hawaii | station-g2            |
| Waikii Repeater               | Waimea           | Hawaii | rak4631               |
| Waimea Central 7a6f           | Waimea           | Hawaii | rak4631               |
| Waimea Homesteads             | Waimea           | Hawaii | rak4631               |
| Wardriver beta                | Waimea           | Hawaii | rak4631               |
| Meshtastic 570F               | Waimea           | Hawaii | rak4631               |
| Cyclops                       | Waimea Town      | Hawaii | rak4631               |
| Solar Lima                    | Waimea Town      | Hawaii | rak4631               |
| T-Beam Control                | Waimea Town      | Hawaii | t-beam                |
| T-Beam S3 Alpha               | Waimea Town      | Hawaii | liligo-tbeam-s3-core  |
| LaeLae Repeater 4952          | Waimea Watershed | Hawaii | rak4631               |
| Meshtastic 4154               | Waimea Watershed | Hawaii | rak4631               |
| Meshtastic 6570               | West HI Concrete | Hawaii | heltec-v3             |
| Meshtastic 7764               | West HI Concrete | Hawaii | heltec-v3             |
| Borg-Server                   |                  | Hawaii | station-g2            |
| ele'ele                       |                  | Hawaii | heltec-v3             |
| Kelan's Car                   |                  | Hawaii | heltec-v3             |
| kg6hwh                        |                  | Hawaii | heltec-v3             |
| LM-Logging                    |                  | Hawaii | portduino             |
| Meshtastic 7c67               |                  | Hawaii | rak4631               |
| MLOA-2                        |                  | Hawaii | station-g2            |
| Solar Sensor                  |                  | Hawaii | rak4631               |
| WH6EBS-M2                     |                  | Hawaii | tracker-t1000-e       |
| WH6GXZ-ube                    |                  | Hawaii | portduino             |
| WH6GZZ                        |                  | Hawaii | heltec-mesh-node-t114 |
| WH6HAA                        |                  | Hawaii | tracker-t1000-e       |

|                               |                      |        |                       |                                 |                    |      |                           |
|-------------------------------|----------------------|--------|-----------------------|---------------------------------|--------------------|------|---------------------------|
| WH6HEO_2680                   |                      | Hawaii | heltec-v3             | KH6ML Bad Echo                  | Enchanted Lake     | Oahu |                           |
| WH6HEO-Cold Xiaoe             |                      | Hawaii | seeed-xiao-s3         | Atlixov B2 6894                 | Ewa Beach          | Oahu | rak4631                   |
| WH6HEO-Hot Ziaoe              |                      | Hawaii | seeed-xiao-s3         | Ewa by Gentry                   | Ewa Beach          | Oahu | rak4631                   |
|                               |                      | Hawaii |                       | GreenRed ff58                   | Ewa Beach          | Oahu | lilygo-tbeam-s3-core      |
| WH6EY-Repeater                | Wailua               | Kauai  | rak4631               | Meshtastic 5898                 | Ewa Beach          | Oahu |                           |
| WH6EY-Unit1                   | Wailua               | Kauai  | rak4631               | Meshtastic b870                 | Ewa Forest Reserve | Oahu | t-beam                    |
| WH6EY-Unit2                   | Wailua               | Kauai  | rak4631               | Meshtastic 90b4                 | Ewa Plains         | Oahu | t-beam                    |
| Haiku Makai                   | Haiku                | Maui   | Liligo t-beam S3 core | Meshtastic e66b                 | Hawaii Kai         | Oahu |                           |
| Robert                        | Haiku                | Maui   | t-deck                | WisMesh Pocket 718a             | Hawaii Kai         | Oahu | rak4631                   |
| Haleakala Repeater            | Haleakala            | Maui   | rak4631               | LK6LTM-M (mobile)               | Kahala             | Oahu | heltec-v3                 |
| Haleakala Summit Repeater     | Haleakala            | Maui   | rak4631               | JorgeTV rak3272                 | Kahaluu            | Oahu | rak4631                   |
| KG6hwhf                       | Kahului              | Maui   | t-rcho                | Meshtastic 23f3                 | Kailua             | Oahu |                           |
| Meshtastic 1a8d               | Kahului              | Maui   | tracker-t1000-e       | Meshtastic dfb7                 | Kailua             | Oahu |                           |
| MIHNakoa                      | Kahului              | Maui   | t-beam                | N1PDG-1                         | Kakaako            | Oahu | heltec-v3                 |
| MIHTdeck                      | Kahului              | Maui   | t-deck                | Tiki's Loft A                   | Kakaako            | Oahu |                           |
| Meshtastic c814               | Kihei                | Maui   |                       | Kalaeloa                        | Kalaeloa Airport   | Oahu | rak4631                   |
| Octogrid 01                   | Kihei                | Maui   | t-echo                | KH6ML-e Echo                    | Kaneohe            | Oahu | t-echo                    |
| Octogrid 6                    | Kihei                | Maui   | diy-v1                | Meshtastic f779                 | Kaneohe            | Oahu |                           |
| Octopie Base Node             | Kihei                | Maui   | portduino             | Meshtastic 9946                 | Kapahulu           | Oahu | t-echo                    |
| pmow mobile                   | Kihei Ridge          | Maui   | t-echo                | HiMesh Project - Ewa            | Kapolei            | Oahu | tracker-t1000-e           |
| Cloud Castle Farm             | Kula                 | Maui   | lilygo-tbeam-s3-core  | D3 302H                         | Koolau             | Oahu | heltec-v3                 |
| WH6FXV-1 Fixed                | Kula                 | Maui   | heltec-v3             | D3 302M                         | Koolau             | Oahu |                           |
| Meshtastic 90fa               | Maalaea              | Maui   | t-echo                | Tikis.com near Band & Bar Solar | Kuhio Beach        | Oahu | rak4631                   |
| Colin Makawao                 | Makawao              | Maui   | tlora-v2-1-1p6        | SWT1 37A                        | Kunia              | Oahu | tracker-t1000-e           |
| KH6HHG d510                   | Makawao              | Maui   | heltec-v3             | Pensacola mesh 05               | Lanikai            | Oahu | tracker-t1000-e           |
| KH6UU d03c                    | Makawao              | Maui   | rak4631               | Makakilo-09                     | Makakilo           | Oahu | rak4631                   |
| Meshtastic d287               | Makawao              | Maui   | t-echo                | KH7TV Echo                      | Makiki - Roosevelt | Oahu | t-echo                    |
| Silversword aabc              | Makawao              | Maui   | heltec-v3             | Meshtastic e8cb                 | Makiki - Roosevelt | Oahu |                           |
| Tav G2Nano Ultra              | Makawao              | Maui   | nano-g2-ultra         | NH7IT 01                        | Manoa              | Oahu | t-echo                    |
| Tavis G2                      | Makawao              | Maui   | station-g2            | Manoa/Tantalus mk23             | Manoa              | Oahu | t-beam                    |
| WS85 WX 4011                  | Olowalu              | Maui   | rak4631               | Meshtastic a211                 | Nuuanu Valley      | Oahu |                           |
| Blue Mesh                     | Paia                 | Maui   |                       | 7o Portable fbba                | Palolo             | Oahu | t-echo                    |
| Meshtastic 706C               | Paia                 | Maui   | heltec-v3             | Meshtastic c067                 | Palolo             | Oahu |                           |
| Orange                        | Paia                 | Maui   | liligo-tbeam-s3-core  | KH6ML Pearl City Fixed          | Pearl City         | Oahu | heltec-v3                 |
| Meshtastic 4b68               | Pukalani             | Maui   | station-g2            | HiMesh Project - Aiea           | Pearl Harbor       | Oahu | station-g2                |
| Meshtastic 9380               | Pukalani             | Maui   | lilygo-tbeam-s3-core  | Meshtastic 259d                 | Pearl Harbor       | Oahu |                           |
| Tavis T-Echo                  | Pukalani             | Maui   | t-echo                | Meshtastic 412c                 | Pearl Harbor       | Oahu | helyec-v3                 |
| Meshtastic 73e8               | Wailuku              | Maui   |                       | Borg 8e34                       | Pearl Ridge        | Oahu | heltec-vision-master-t190 |
| Randy 7f40                    | Wailuku              | Maui   | heltec-v3             | Borg 2bcc                       | Pearlridge         | Oahu | heltec-vision-master-t190 |
| SKW4 (mobile)                 | Wailuku              | Maui   | t-deck                | KH6ML-mobile T-Echo2            | Punchbowl          | Oahu | t-echo                    |
| Wailuku Repeater (MQTT)       | Wailuku              | Maui   | station-g2            | Pika                            | Upper Palolo       | Oahu | rak4631                   |
| Atlixov S4                    |                      | Maui   | rak4631               | SLH2 c1ab                       | Upper Palolo       | Oahu | t-echo                    |
| SunMesh 915a Solar            |                      | Maui   | heltec-v3             | SLHI 9ef2 (mobile)              | Upper Palolo       | Oahu | t-echo                    |
| Meshtastic 0444               | Ala Wai              | Oahu   |                       | KH7EC-A                         | Waialae Kahala     | Oahu | heltec-v3                 |
| NH7IT 03                      | Ala Wai              | Oahu   | heltec-v3             | KH7EC-H                         | Waialae Kahala     | Oahu | heltec-v3                 |
| Meshtastic badf               | Campbell Industrial  | Oahu   |                       | KH7EC-H                         | Waialae Kahala     | Oahu | heltec-v3                 |
| SWT1 37C                      | East Kapolei         | Oahu   | rak4631               | Meshtastic 514c                 | Waialae Kahala     | Oahu | heltec-v3                 |
|                               |                      |        |                       |                                 |                    |      |                           |
| Meshtastic de16               | Waialae Kahala       | Oahu   |                       | JavaMeshHome                    |                    |      | heltec-v3                 |
| WH6OMG 51d1                   | Waialae Kahala       | Oahu   | tracker-t1000-e       | Jays Node                       |                    |      | rak4631                   |
| D3 310 w                      | Waialele             | Oahu   | heltec-v3             | KSDCE Base                      |                    |      | heltec-v3                 |
| Meshtastic 70b8               | Waialele             | Oahu   |                       | KA4NQS f57c                     |                    |      | heltec-v3                 |
| KH6ML SensCAP                 | Waikiki              | Oahu   | tracker-t1000-e       | KH6UU 5dd4                      |                    |      | heltec-v3                 |
| Meshtastic e6d2               | Waikiki              | Oahu   | tracker-t1000-e       | KH7EC-C                         |                    |      | heltec-v3                 |
| Wallops Mobile                | Waikiki              | Oahu   | rak4631               | Kilohana Solar                  |                    |      | rak4631                   |
| 6136_5634                     | Waimanu Valley Ridge | Oahu   | lilygo-tbeam-s3-core  | KR-IT-RC                        |                    |      | tracker-t1000-e           |
| Poi Dog 19f4                  | Waipahu              | Oahu   | heltec-mesh-node-t114 | Kulamalu MQTT Maui              |                    |      | station-g2                |
| Meshtastic 5ccc               | Waipahu Uka          | Oahu   |                       | LM-Rak                          |                    |      | rak4631                   |
| WH6ECG-00                     | Windward Mall area   | Oahu   | heltec-v3             | LM-UDPtest                      |                    |      | station-g2                |
| AH6T_Mesh_dcc6                |                      | Oahu   | t-echo                | M-1                             |                    |      | rak4631                   |
| KH6ML-b QTH Loft              |                      | Oahu   | heltec-v3             | Meashtastic b6b8                |                    |      |                           |
| KH6ML-fox                     |                      | Oahu   | heltec-v3             | Mehtastic Terminal              |                    |      | rak4631                   |
| Traveler TECHNO-9430 (mobile) |                      | Oahu   | t-deck                | Meshtastic 03ac                 |                    |      | t-deck                    |
| WH6ECG-15                     |                      | Oahu   | heltec-v3             | Meshtastic 0506                 |                    |      |                           |
| WH6ECG-2                      |                      | Oahu   | heltec-v3             | Meshtastic 059d                 |                    |      | tracker-t1000-e           |
| WH6ECG-7                      |                      | Oahu   | t-deck                | Meshtastic 0660                 |                    |      | rak4631                   |
| Feds Watcher                  | unknown              |        | t-deck-pro            | Meshtastic 09b8                 |                    |      |                           |
| 4248 (mobile)                 |                      |        | t-deck                | Meshtastic 14b9                 |                    |      | rak4631                   |
| 4H Wise Meshtastic 0b3d       |                      |        | rak4631               | Meshtastic 1a27                 |                    |      | rak4631                   |
| 4H2 Wise 5c0b                 |                      |        | rak4631               | Meshtastic 2004                 |                    |      |                           |
| AH6WN RAK Mobile              |                      |        | rak4631               | Meshtastic 214a                 |                    |      |                           |
| AH6WN RAK1                    |                      |        | rak4631               | Meshtastic 2528                 |                    |      | heltec-mesh-node-t114     |
| AH6WN T-Deck                  |                      |        | t-deck                | Meshtastic 25f0                 |                    |      | station-g2                |
| AUXC HI                       |                      |        | heltec-v3             | Meshtastic 2660                 |                    |      |                           |
| Battery                       |                      |        | heltec-mesh-pocket    | Meshtastic 2849                 |                    |      | t-echo                    |
| Bender 72c0                   |                      |        | heltec-v3             | Meshtastic 2ac1                 |                    |      | rak4631                   |
| Bombtastic                    |                      |        | sensecap-indicator    | Meshtastic 3528                 |                    |      | t-echo                    |
| Bruh 45d0                     |                      |        | heltec-v3             | Meshtastic 3f68                 |                    |      |                           |
| CA-T1000-E-1                  |                      |        | tracker-t1000-e       | Meshtastic 4026                 |                    |      |                           |
| CERT-OL-B-Orchidland          |                      |        | station-g2            | Meshtastic 4294                 |                    |      | t-beam                    |
| Chee Hoo                      |                      |        | heltec-v3             | Meshtastic 4533                 |                    |      | rak4631                   |
| CoconutWireless CW10 Solar    |                      |        | rak4631               | Meshtastic 4ac0                 |                    |      | t-deck                    |
| Coconutwireless CW-A          |                      |        | rak4631               | Meshtastic 5073                 |                    |      | rak4631                   |
| Coconutwireless CW-R          |                      |        | rak4631               | Meshtastic 538c                 |                    |      | heltec-v3                 |
| CoconutWireless CW-S          |                      |        | rak4631               | Meshtastic 5890                 |                    |      |                           |
| COM2 0d50                     |                      |        | t-deck                | Meshtastic 5cfc                 |                    |      | heltec-v3                 |
| COML HI d2f4                  |                      |        | heltec-v3             | Meshtastic 61d4                 |                    |      | rak4631                   |
| CP-Base                       |                      |        | rak4631               | Meshtastic 63cd                 |                    |      | rak4631                   |
| D19G                          |                      |        | heltec-v3             | Meshtastic 6a2c                 |                    |      | heltec-v3                 |
| Elab b14c                     |                      |        | heltec-v3             | Meshtastic 6e34                 |                    |      |                           |
| EMCOM ESF-2                   |                      |        | heltec-v3             | Meshtastic 7280                 |                    |      | t-beam                    |
| ESF2M 739c                    |                      |        | heltec-v3             | Meshtastic 756c                 |                    |      |                           |
| GreenGuy                      |                      |        | heltec-v3             | Meshtastic 7afc                 |                    |      |                           |
| Harbor Breeze 01              |                      |        | rak4631               | Meshtastic 7bd8                 |                    |      | heltec-v3                 |
| Hawaii meshmp                 |                      |        | portduino             | Meshtastic 7c78                 |                    |      | tlora-v2-1-1p6            |





Meshtastic 7d14  
 Meshtastic 8f3c  
 Meshtastic 8fd1  
 Meshtastic 9650  
 Meshtastic 9940  
 Meshtastic a304  
 Meshtastic a3a4  
 Meshtastic a5a4  
 Meshtastic a978  
 Meshtastic ade8  
 Meshtastic b468  
 Meshtastic b7dc  
 Meshtastic be24  
 Meshtastic c0f0  
 Meshtastic c370  
 Meshtastic c7fc  
 Meshtastic ce9e  
 Meshtastic d514  
 Meshtastic d904  
 Meshtastic db70  
 Meshtastic dfe8  
 Meshtastic e128 (mobile)  
 Meshtastic e340  
 Meshtastic e9f0  
 Meshtastic ee90  
 Meshtastic f4ee  
 Meshtastic f728  
 Meshtastic f934  
 MiMobile  
 mkkD  
 mkkP  
 mkkT  
 MLCS-2  
 msunset  
 Nibbler 8de4  
 Node Collector EDC Muzi  
 NorthRWest 2  
 NorthRWest Base  
 Norwood-Online  
 ORCA Hapuna  
 ORCA Tdeck Plus (mobile)  
 ORCA Westside  
 Orcatdeck  
 PatchrZero.Prime  
 Pher Mobile  
 pi3-30db-echo  
 pi3a-cd98



heltec-v3  
 heltec-wireless-tracker

rak4631

heltec-v3

heltec-v3

heltec-v3

t-deck

heltec-v3

t-deck

heltec-v3

station-g2

heltec-v3

lilygo-tbeam-s3-core

heltec-v3

keltec-v3

heltec-v3

heltec-v3

t-deck

heltec-v3

rak4631

heltec-v3

heltec-v3

rak4631

t-deck

rak4631

t-deck

heltec-wsl-v3

tracker-t1000-e

portduino

portduino

PIS-waveshare bfc2  
 Pi-zero-22db alpha  
 pi-zeroW-delta  
 R1  
 RAK Solar HBR 1  
 Repeater Keaalaui Top KH6ML  
 Rook Pro  
 Rookery CAW1  
 S5 RANGER MAGNUM  
 Scooby Doo  
 SenseCap\_02  
 SKW1  
 SKW2  
 SKW3  
 Small Kine Lolo Papolo  
 Sodna  
 Solar b981  
 Solar DannyK  
 Solar Oscar  
 SolarBaker  
 Station G2  
 SunMesh 915a  
 T\_Beam\_S\_986c  
 T-Beam Beta  
 T-Beam Gamma  
 T-Echo a912  
 T-Echo c7a3  
 Thomas R1  
 TK\_Heltec\_V3  
 VEOC Test  
 WH6OMG solar 1  
 WH6OMG Solar 2  
 X Tdeck

portduino  
 portduino  
 portduino  
 rak4631  
 rak4631  
 rak4631

t-echo  
 t-deck  
 heltec-v3  
 tracker-t1000-e  
 heltec-v3  
 heltec-v3  
 heltec-mesh-pocket  
 tracker-t1000-e  
 t-beam  
 rak4631  
 rak4631  
 rak4631  
 heltec-mesh-mode-t114  
 station-g2  
 heltec-v3  
 lilygo-tbeam-s3-core  
 t-beam  
 t-beam  
 t-echo  
 t-echo  
 rak4631  
 heltec-v3  
 heltec-v3  
 rak4631  
 rak4631  
 t-deck

## Meshtastic



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

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