



January 2025

THE BIG ISLAND HAMGRAM

The newsletter of the Big Island Amateur Radio Club

QST, QST, QST: Ideas needed for 2025 programs and activities

The BIARC Programs and Operating Activities Committees need input from club members regarding what programs and activities they would be interested in.

"We need this information ASAP, in order to make arrangements and for budgeting purposes," said Joseph Rosenbaum, WH6JOE, the Operating Activities chair. If you have any ideas, please send an email to him at wh6joe@gmail.com.

Joe announced that the January member activity will be a presentation by William, NH6ET, on "Introduction to Decibels." Learn how decibels are used for power, antenna and amplifier gain. The talk will also include information about cable loss and filter performance.

Also, Tony, WH6DVI, will talk about the new ARRL/ARES plan.

Waimea Hamfest Saturday, Feb. 15

The Hawaii Island International Hamfest will be held on Saturday, February 15, at the Waimea Community Center, next to the ballfield off Kawaihae Road in Waimea (Kamuela).

There will be a \$10 donation per table per seller. There will be a \$5 donation per attendee at registration.

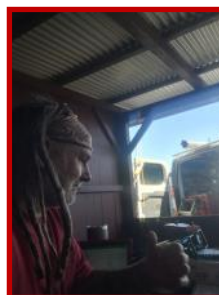
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WH6JOE photo
As is tradition, the club's December gathering was dedicated to food, fun and fellowship at the Kamana Senior Center in Hilo. (See Page 2 for more photos.)



Photo by Joanne Farley
WH6HI, WH6GXZ and WH6JOE on POTA excursion to Akaka Falls.



HI Volcanoes NP — WH6HI, above.

In search of the POTA quota

Over the last few months, small bands of intrepid radioactive explorers linked to BIARC have been on the hunt to get their POTA quota. Locations, equipment and hams have varied for these ARRL Parks on the Air activities.

In late December, Duane, WH6HI, Shawn, WH6GXZ, and Joe, WH6JOE, went to Akaka Falls for a POTA activation. There were a couple of pileups, and WH6JOE made 132 QSOs covering 37 states and 3 foreign countries. WH6HI had 39 contacts.

The setup: 10 meter efhw, deployed horizontally, suspended from the van using a 10 ft pvc mast to the 25 ft sota beam mast. Radio: Yaesu ft-891, at 100 watts, hooked up to a battery (20 amh lipo4).

Continued on next page



Food, fellowship abound at annual BIARC holiday potluck party

Photos by WH6FSA

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The group followed this up with a second POTA excursion on Christmas Eve day at Hawaii Volcanoes National Park.

On New Year's Day, WH6HI and WH6JOE returned to the Volcano park and from

about 11:10 am to 1:10 pm reeled in 71 contacts spanning all across the mainland USA and a few other countries, such as Mexico, Brazil, Chile and Ecuador.

"We did a two-for activation. Duane called CQ and when he was done with the

contact he would hand me the mic to work the same contact," said Joe. "This was all on the technician voice portion of the 10 meter band from 28.300 MHZ to 28.500 MHZ."

They used an HFkits antenna. www.hfkits.com

Waimea Hamfest set for Feb. 15

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One raffle ticket is included with registration. Additional tickets will be available for \$1 apiece.

Schedule:

8 am - breakfast at Hawaiian Style Cafe

9 am - vendor setup

9:30 am - Doors open to the public. Be sure to get your raffle tickets for the "Big ticket item"

12:30 pm - Presentation (TBD)

1 pm - Event ends

Guest Speaker this year: To be determined.

Information:

There will be surprise giveaways throughout the day.

Talk in on 146.940 Maui Repeater, 147.32 Waimea Repeater (tone 100)

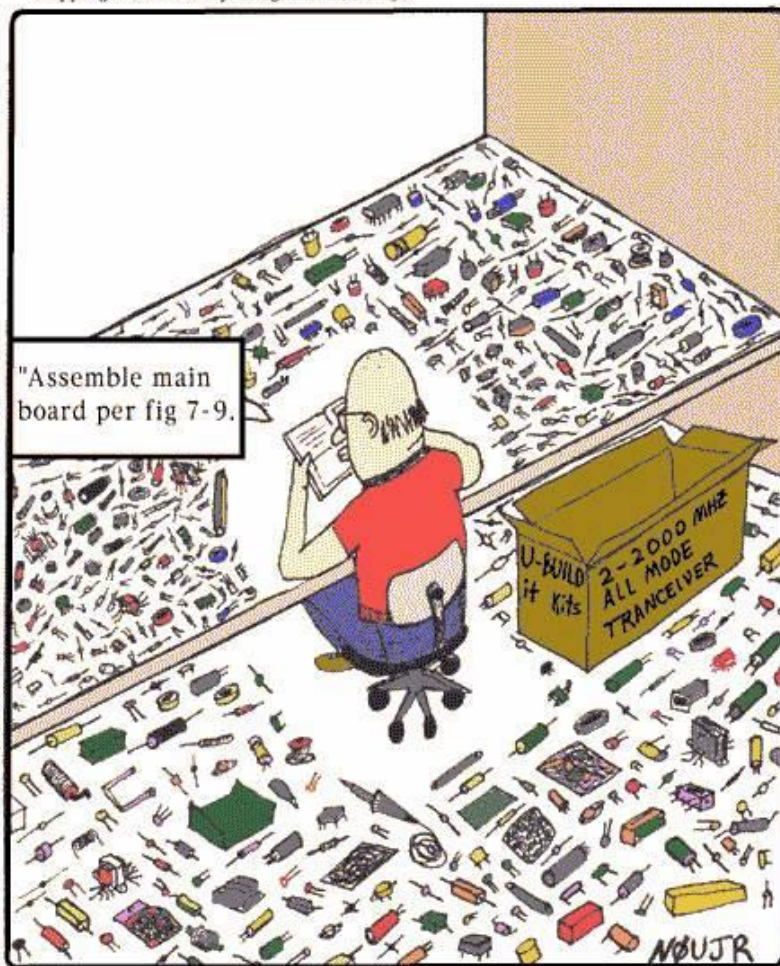
This is an event sponsored by the Kohala Hamakua Radio Club (KHRC).

This is an island-wide event, so tell all your radio friends.

For more information, contact Steve Milner - wh6n@arri.net

Please note: This non-commercial event promotes the trading of equipment and information between hams and the general public and promotes the open exchange of exploring Ham radio as a hobby.

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Kit fun.

THE PRESIDENT'S CORNER



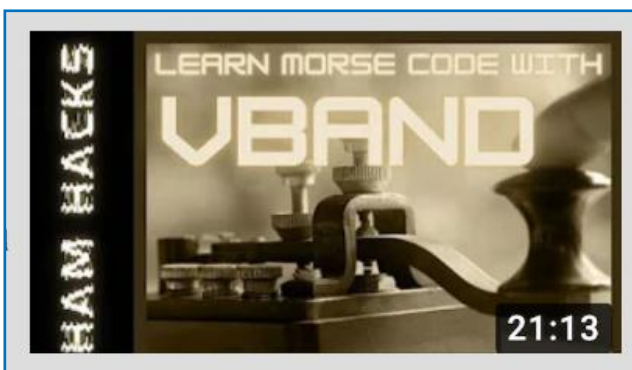
Thomas Avila,
KH6GG

Hello, Hams:

I wanted to tell you how much I appreciated the last year heading the Big Island Amateur Radio Club. I've learned a lot and I continue to do so.

I have learned the basics of CW and its alluring draw. I'm still working on using my paddle but my head copy is definitely better than I had imagined.

I got to this point by using a couple of apps I found on the Google app store and an interesting website that uses an interface for your paddle. The site was de-



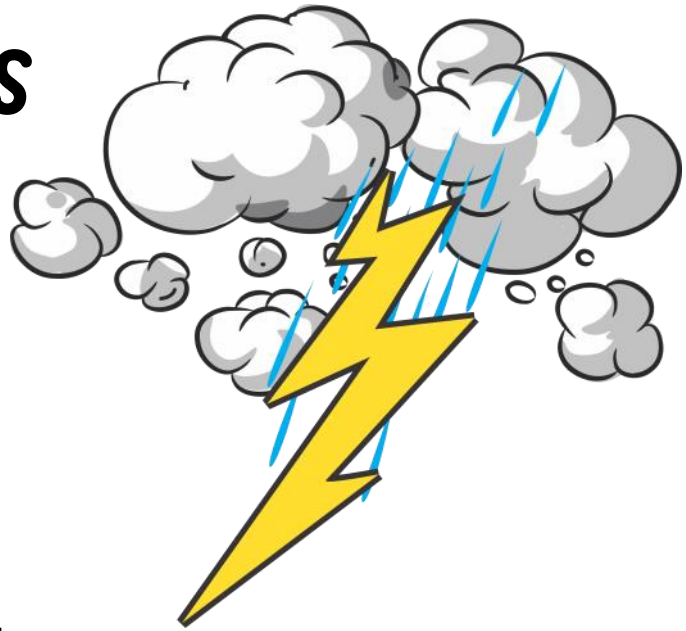
An interesting website uses an interface for your paddle or straight key. The site was developed by Ham Radio Solutions and the interface is called the Vband.

veloped by Ham Radio Solutions and the interface is called the Vband. Duane WH6HI and I purchased a couple of Vbands to help learn CW and the website has online training rooms as well as chat rooms you can use for practice and conversing via CW. The most interesting part is that anybody can use the site for free. This has brought a ton of people into learning CW and making it

so they want to delve deeper into Ham radio. I've also started using an interesting part of the USB protocol to my advantage. USB PD (power delivery) has the ability to output more than just 5 volts. I've found trigger boards that range the spectrum. From 5, 9, 12, 15, 20, and now 28 volts.

Lightning does its damage

By Hank Kaul, KH6HAK



Well I **THOUGHT** I had survived that lightning stroke.

But delayed consequences showed their ugly face.

I should first describe how an RF power amplifier transistor is physically constructed. There is not just one transistor junction inside that case. I have seen the insides, and there is typically 10 transistor dies inside, all connected in parallel. They all work together to handle the rated power of the device. It is possible for a static pulse to destroy just one of those transistor junctions, and the device will keep on operating at slightly reduced power, but in a weakened state.

So after the lightning flash, my IC-910H satellite radio for the V/U bands appeared to work fine for a couple weeks. Then I began to have intermittent power shutdowns when transmitting. Turning the power output down a bit took care of the problem, but I suspected I had some antenna or line damage with VSWR causing the shutdowns. The problem kept happening at reduced power levels.

Next I examined my lightning arrestors outside at the mast. All looked OK, and my antenna analyzer showed the antennas and lines to be nominally OK.

So next I put the IC-910H radio on a dummy load, and to my dismay it continued to fault shutdown even at minimum power. It was obvious then that the final PA transistor had a cascading fault as the power handling capability went down and down as the transistor 'dominoes' inside failed. So my beloved IC-910H was toast. This was the radio I used to talk to the commander of the ISS on 2022 Field Day. The radio is no longer made nor supported by Icom.

As incredible luck would have it, I discovered another IC-910H in excellent condition on eBay. I contacted the ham seller and negotiated a price and shipping. It cost me a grand, but... what price for a beloved radio?

I have been reduced to using my Yaesu FT-70D portable rig connected to my base antenna to work the Kulani repeater nets.

I asked for priority mail shipping, hoping to get it before Christmas. Unfortunately the seller opted to save a few bucks and sent it "Ground Advantage". I have learned that postal method may be an 'advantage' on the mainland, but not to Hawaii. Tracking packages they get to the west coast and stall. Probably aggregated to a container full, then shipped on a slow boat, then unloaded in Hawaii

as last priority. I have had 'ground advantage' packages stall for 30 days like this. Then suddenly one day they appear at my local post office and get delivered.

So maybe sometime in January, likely after this is published, I might have my 'new' old radio.

Now in an effort to NOT have this happen again, I will also be installing coax relays on the VHF and UHF antenna lines. When the system powers down, the radio will be switched into a dummy load, and the antenna lines will be disconnected. This method worked for the HF rig, and it is still transmitting.

But never underestimate lightning. Some call it 'Thor's Hammer'... for good reason.

Check out BIARC on Discord



<https://discord.gg/cEYkHuME>

THE PRESIDENT'S CORNER

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Not every power supply can do it but I've managed to squeeze out 12 volts at 2.5 amps from a couple of my USB battery supplies and more than a few plug-in chargers. Taking that 12 volts and feeding it to Anderson power plugs has become the way to go for me.

Between learning more about digital modes, finally getting a 40 meter telescopic vertical antenna for my Xiegu x6200 and getting better at filming (I'm still working on editing), I look forward to what this next year will bring our way.

I'll be working on getting on the air by any

[Ham Radio Solutions](#) CW Hotline

Main Connect

Ham Radio Solutions is pleased to offer CW Hotline, a WiFi connected CW tool. CW Hotline was designed to provide a way to key a remote radio station in CW mode, but can be also used as a private Morse code link to friends. Think "The Bat Phone" for CW. It is available with either a built in straight key or paddles, or neither if only external keys will be used. Once it is configured with the local WiFi information, just power up, it will link with selected peers and be ready to send and receive.



means and hopefully making more contacts with you folks and anyone else that can hear me.

If anyone else is interested

in learning CW or learning its history, feel free to reach out. We have a few Elmers who say they'll come out of retirement to help anyone interested.

Winter Field Day 2025



Winter Field Day (WFD), hosted by the Winter Field Day Association, is scheduled to run from 1900 UTC on Saturday, January 25, through 1859 UTC on Sunday, January 26.

WFD is held on the last full weekend in January and is a communications exercise that can be worked from the comfort of your home or from a remote location. You can participate by yourself, with your friends and family, or with a local club.

WFD is designed to help increase your level of preparedness for disasters and for you to improve and practice your operating skills in winter environments, as the potential for freezing temperatures, snow, ice, and other hazards present unique operating conditions.

WFD is open to participants worldwide. Amateur radio operators may use frequencies on the HF, VHF, or UHF bands and are free to use any mode that can faithfully transmit the required exchange intact. Similar to ARRL's Field Day, bonus points are earned in several ways, including from using non-commercial power sources, operating from remote locations, making satellite contacts, and more. Make sure you register your location at the [WFD registration page](#). To date, there are 345 locations registered around the world.

Also, remember to mark your calendar for 2025 ARRL Field Day on June 28 - 29. For additional information, visit [Field Day \(arrl.org\)](#).

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

BIARC monthly meeting info

The club gets together on the second Sunday of the month at Kamana Senior Center at 127 Kamana St. in Hilo. All are welcome.

The Executive Board meets at noon, with the

membership gathering following at 2 p.m.

Internet access is provided.

The link is shared on the BIARC website, <https://biarc.net>, prior to the meeting.

Monthly Siren Report for January 2025

Happy New Year from the hard-working volunteers of the Big Island ARES Group. Here is the January 2025 siren report, courtesy of Darrell Asuka, KH6RDO.

| Location | Observer | Mode | Status | Notes |
|-----------------------------------|----------|-----------|-------------|-------|
| NOT WORKING | | | | |
| Ainaloa (HA910) | WH6DVI | Mauna Kea | Not Working | |
| HOVE, #1 Leilani (HA805) | KH6FA | Email | Not Working | |
| WORKING | | | | |
| Ainako Park (HA117) | WH6FSA | Allstar | Working | |
| Banyan / Kam (HA104) | KH6ATU | Text | Working | |
| Captain Cook (HA702) | WH6WF | Text | Working | |
| Cooper Center Volcano (HA936) | KH7DQ | Mauna Kea | Working | |
| Downtown Federal Bldg (HA107) | WH6HBH | Allstar | Working | |
| Hakalau (HA113) | WH6ECX | Text | Working | |
| Hawaiian Beaches Park #1 (HA907) | KH7LM | Mauna Kea | Working | |
| Honomu (HA111) | KH6RDO | Allstar | Working | |
| HOVE Reef Blvd #3 (HA809) | WH6FC | Text | Working | |
| HPP #2 4th & Awapuhi (HA912) | WH6HAA | Mauna Kea | Working | |
| HPP #3 6th & Makuu (HA913) | NH6OV | Mauna Kea | Working | |
| HPP #1 Paradise / Ala Kai (HA925) | KH6CZ | Mauna Kea | Working | |
| Kawaihae Harbor (HA407) | WH6EHJ | Mauna Kea | Working | |
| Kehana Beach (HA916) | KH6AQ | Text | Working | |
| Laupahoehoe Lookout (HA201) | WH6FSE | Allstar | Working | |
| Laupahoehoe Point (HA202) | WH6FSI | Allstar | Working | |
| Leleiwi (HA101) | KI6HBZ | Allstar | Working | |
| NELHA Kona (HA611) | WH6GTD | Text | Working | |
| Ookala (HA304) | WH6GDC | Text | Working | |
| Pahala (HA804) | WH7BR | Allstar | 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 | Allstar | Working | |
| Waikamalo Park Ninole (HA123) | WH6FIQ | Text | Working | |
| Waimea Park Kamuela (HA401) | WH6EHJ | Mauna Kea | Working | |
| Carvalho Park (HA114) | NH6WT | Email | Working | |
| Honoapu (HA802) | WH6HC | Email | Working | |
| Naalehu (HA801) | WH6HC | Email | Working | |
| Old Kona Airport (HA609) | KH7MS | Email | Working | |



ARRL Division News

Pacific Division

Please join us for the Pacific Division Town Hall Meeting on Saturday, January 11th at 10AM PDT. We will again meet on Zoom for this meeting to allow all those in the Pacific Division to attend.

Meeting Information:

ARRL Pacific Division Town Hall Meeting

When: Jan 11, 2025 10:00 AM Pacific Time (US and Canada)

Please Register in advance for this meeting:

us06web.zoom.us/join/9tJfKwVZt7w?pwd=Zm5lcnR1bWVudD00

After registering, you will receive a confirmation email containing information about joining the meeting. Please allow a day or two before seeing the confirmation with the meeting link and information.

The meeting is being held to provide quick updates about topics related to the division, information before the ARRL Board meeting scheduled to be held in Newington on January 17th and 18th and to allow time for those attending to provide comment/feedback and questions. Hope to see everyone at the Town Hall Meeting on Zoom.

Anthony Marcin, W7XM

ARRL Pacific Division Director

w7xm@arrl.org

ARRL Podcasts



On the Air

Sponsored by Icom

Learn Even More with On the Air Live

In early 2025, the ARRL Education & Learning Department will launch an interactive livestreamed video podcast, *On the Air Live*. The monthly episodes will be aimed toward educating new and intermediate-level hams, inspiring them to explore the nearly endless aspects of amateur radio and develop their skills. ARRL Education Specialist Wayne Greene, KB4DSF, who will host each episode, joins the On the Air podcast to share more details, including upcoming topics and how to participate in real time.



ARRL Audio News

Listen to ARRL Audio News, available every Friday. ARRL Audio News is a summary of the week's top news stories in the world of amateur radio and ARRL, along with interviews and other features.

The On the Air podcast and ARRL Audio News are available on blubrry, iTunes, and Apple Podcasts.

[On the Air](#) | [ARRL Audio News](#)



B.I.A.R.C
Big Island Amateur Radio Club
KH6EJ

**It's that
time of
year:**

**Dues
are
due**

**Access the club's
interactive website:
biarc.net**

Membership Types & Annual Dues

Adult Full Members \$25
Adult Associate* Members \$12.50
Youth Full Members \$6.25
Youth Associate* Members - No Dues

Dues are payable in December of each year for the following calendar year. Dues for **first time** full members who join the club on or after March 1st are \$2.50 per month through and including the following December. Dues for **first time** Associate adult members who join on or after March 1st are \$1.25 per month through and including the following December. Youth full members who join on or after March 1st need not pay dues until the following December or their 18th birthday, whichever occurs first.

* Associate members are those who do not hold an FCC-issued Amateur Radio license or those who are licensed with a license address outside of Hawaii County. Associate BIARC membership is equivalent to full membership, but they do not have voting privileges at membership meetings.

Note: If your license address is not in Hawaii County or you do not hold a valid amateur radio license, then you may only join as an associate member.

Family Membership Discount

Dues are for individual memberships except that two or more related Adult Full Members living at the same address may choose to make a single dues payment of \$37.50 per year. In this case, the name and type of individual membership for each family member must be specified at the time of payment.

[BIARC Membership Application - PDF \(Printable\)](#)

The PDF application may be completed online. Please save and email completed applications to BIARCTreasurer@gmail.com or print and mail to BIARC at the P.O. Box address listed below along with your payment.

You may click the 'Donate' button below and use the secure PayPal online payment gateway to join BIARC or renew your membership.

If paying online a 10% convenience fee is required.

Add \$2.50 for full membership, \$1.25 for associate membership, and \$3.75 for a family membership.

Thank you for your membership in BIARC!

BIARC is a 501(c)(7) tax-exempt entity, supported by our members and volunteers. Please consider making a donation.

Donate



Note: BIARC donations are not tax deductible.
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Big Island Amateur Radio Club. P. O. Box 1938, Hilo, HI 96721-1938.



Nets alive & well in Hawaii: The annual summary

Mahalo!
Shirley and I want to thank all of you who helped support 40meter.net last year. I would also like to thank all of you who participate in the nets, and especially those of you who are able to act as Net Control Ops. -Konabob (AH6GT)

40meter.net Log Summary (2024)
(AH6T)

| | Jan-24 | Feb-24 | Mar-24 | Apr-24 | May-24 | Jun-24 | Jul-24 | Aug-24 | Sep-24 | Oct-24 | Nov-24 | Dec-24 | Year | Avr. YTD |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|------|----------|
| Participation: | | | | | | | | | | | | | | |
| # of Nets | | 181 | 201 | 184 | 199 | 180 | 201 | 193 | 191 | 110 | 180 | 110 | | 175.5 |
| Total Check-ins | | | | 2485 | 2791 | 2957 | 2783 | 2774 | 2398 | 3274 | 2195 | 2499 | | 2684.0 |
| Unique Calls | | 318 | 358 | 297 | 323 | 372 | 309 | 305 | 273 | 285 | 262 | 272 | | 306.727 |
| Licensed Amateurs in Hawaii | | | | | | | 3529 | 3524 | 3514 | 3498 | 3482 | 3479 | | |
| % of HI Calls | | | | | | | 8.8% | 8.7% | 7.8% | 8.1% | 7.5% | 7.8% | | 8.1% |
| Number of Nets/Month | | | | | | | | | | | | | | |
| HF Nets | 103 | 101 | 107 | 103 | 107 | 102 | 106 | 109 | 111 | 115 | 108 | 110 | | 106.8 |
| HF Digital Nets | 11 | 11 | 8 | 9 | 9 | 9 | 11 | 12 | 13 | 13 | 6 | 8 | | 10.0 |
| VHF/UHF Nets | 69 | 69 | 86 | 72 | 82 | 69 | 83 | 72 | 67 | 74 | 65 | 70 | | 73.2 |
| CERT Nets | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | | 0.3 |
| Total Nets | 184 | 181 | 201 | 184 | 199 | 180 | 201 | 193 | 191 | 202 | 180 | 188 | | 190.3 |
| Man-Hrs/Month | | | | | | | | | | | | | | |
| HF Nets | 1,266.3 | 1,349.8 | 1,244.2 | 1,159.8 | 1,147.8 | 1,127.5 | 1,077.3 | 1,270.0 | 1,140.5 | 1,130.0 | 1,022.9 | 1,152.7 | | 1174.1 |
| HF Digital Nets | 56.8 | 33.7 | 110.9 | 50.8 | 51.2 | 36.5 | 123.2 | 64.0 | 52.6 | 75.6 | 317.2 | 16.1 | | 82.4 |
| VHF/UHF Nets | 580.0 | 747.7 | 629.5 | 537.5 | 664.7 | 599.0 | 814.7 | 656.6 | 548.2 | 442.5 | 628.1 | 814.3 | | 638.5 |
| CERT Nets | 1.3 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | | 0.6 |
| Total Man-Hrs | 1,904.3 | 2,131.2 | 1,984.6 | 1,748.1 | 1,866.2 | 1,763.0 | 2,016.5 | 1,990.6 | 1,741.3 | 1,648.2 | 1,970.4 | 1,983.1 | | 1895.6 |
| % Man-Hrs/Nets | | | | | | | | | | | | | | |
| HF Nets | 66.5% | 63.3% | 62.7% | 66.3% | 61.5% | 64.0% | 53.4% | 63.8% | 65.5% | 68.6% | 51.9% | 0.581288 | | 62.1% |
| HF Digital Nets | 3.0% | 1.6% | 5.6% | 2.9% | 2.7% | 2.1% | 6.1% | 3.2% | 3.0% | 4.6% | 16.1% | 0.008102 | | 4.3% |
| VHF/UHF Nets | 30.5% | 35.1% | 31.7% | 30.7% | 35.6% | 34.0% | 40.4% | 33.0% | 31.5% | 29.1% | 31.9% | 0.41061 | | 33.7% |
| CERT Nets | 0.1% | 0.0% | 0.0% | 0.0% | 0.1% | 0.0% | 0.1% | 0.0% | 0.0% | 0.0% | 0.1% | 0 | | 0.0% |
| Total | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Hawaii Amateur Licenses (30 Nov 24)

| | Jan-24 | Feb-24 | Mar-24 | Apr-24 | May-24 | Jun-24 | Jul-24 | Aug-24 | Sep-24 | Oct-24 | Nov-24 | Dec-24 |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Hawaii Licenses: Class | | | | | | | | | | | | |
| Novice | | | | | | | 25 | 25 | 25 | 25 | 25 | 24 |
| Technician | | | | | | | 1944 | 1945 | 1947 | 1938 | 1927 | 1929 |
| General | | | | | | | 748 | 746 | 740 | 737 | 733 | 729 |
| Advanced | | | | | | | 135 | 134 | 130 | 128 | 128 | 127 |
| Extra | | | | | | | 677 | 674 | 672 | 670 | 669 | 670 |
| Total | | | | | | | 3529 | 3524 | 3514 | 3498 | 3482 | 3479 |

December-24 Unique Call List

| Call | Ck-ins | Call | Ck-ins | Call | Ck-ins | Call | Ck-ins | Call | Ck-ins | Call | Ck-ins |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| KH6HHG | 109 | NH7VI | 16 | KH6HI | 5 | WH6CON | 3 | WH6GWH | 1 | KH6L | 1 |
| WH6FC | 106 | WH6GYD | 16 | ZL1SPR | 5 | WH6OZ | 3 | WH6BL | 1 | KH6RDO | 1 |
| KH6GM | 100 | WH6GBX | 16 | W3WDC | 5 | KH7MU | 2 | KC6YDH | 1 | WH6EKU | 1 |
| KH6PXM | 96 | WH6MEL | 16 | WH6FSG | 5 | KH6OWT | 2 | KD6DY | 1 | AH6IX | 1 |
| KH6I | 71 | AH6WI | 14 | WH6GDC | 5 | WH6AV | 2 | BA7KHZ | 1 | AH6Q | 1 |
| NH6M | 66 | KH7WM | 14 | WH6GTC | 5 | WB2CAT | 2 | WH6GHS | 1 | KG6CFC | 1 |
| WH6GYC | 66 | N1VA | 14 | KH6LY | 5 | NT6E | 2 | WH6GHT | 1 | KH6CP | 1 |
| WH6ECG | 47 | WH6GPU | 13 | KH6WG | 5 | KE7LEI | 2 | AH7E | 1 | WH6BS | 1 |
| WH6KM | 41 | KH6DLK | 13 | KH6OWL | 5 | WH6GHX | 2 | KC5DWD | 1 | KH6UU | 1 |
| WH7Q | 38 | WH6EMN | 13 | WH6GCD | 5 | WH6GZD | 2 | WH6GFH | 1 | KH6TU | 1 |
| AH6GT | 38 | WH6TSW | 13 | WH6HCM | 5 | WH6EQU | 2 | WH6GRH | 1 | AH7L | 1 |
| KH6BI | 31 | KH6TOD | 13 | NH7PE | 4 | KH7HO | 2 | NO | 1 | K0WET | 1 |
| KH7EH | 31 | NH6WT | 12 | NH6ET | 4 | AJ0T | 2 | KH6MEL | 1 | N4RJB | 1 |
| AH6V | 30 | WH6I | 12 | AH7MA | 4 | KH6NLU | 2 | NH7J | 1 | NU3E | 1 |
| KH7TV | 28 | WH6HBC | 12 | KH6DH | 4 | WH6CPH | 2 | AH6IM | 1 | KH6KA | 1 |
| WH7CD | 28 | WH6EPS | 11 | KH7CN | 4 | WH6FSI | 2 | KH7HAF | 1 | WH6A | 1 |
| WH6GZL | 28 | WH6LC | 11 | KB3AY | 4 | WH6FSJ | 2 | KH7PKK | 1 | WH6HCA | 1 |
| AH6J | 28 | AH6DL | 10 | WH6FQZ | 4 | WH6FSK | 2 | WH6GZK | 1 | | |
| WH6GZP | 28 | KH7MS | 10 | KH6CZ | 4 | WH6FSD | 2 | WH6HBB | 1 | | |
| WH6GWU | 28 | WH6RJG | 10 | WH6DCC | 4 | WH6ECX | 2 | NHTWT | 1 | | |
| AH6KW | 26 | KH6HAK | 9 | KH6EJZ | 4 | KD5VF | 2 | WH6GOG | 1 | | |
| AH6H | 26 | WH6HAA | 9 | WH6LOL | 4 | KH6OX | 2 | WH6GZN | 1 | | |
| AH6MU | 26 | NH6EV | 8 | WH6GZE | 4 | W8EKD | 2 | WH6HBB | 1 | | |
| WA7ZK | 25 | WH6HAU | 8 | AH6VF | 4 | W8NLD | 2 | AH6OO | 1 | | |
| WH6CYD | 25 | KH7GN | 8 | WH6HAS | 4 | WH7QQ | 2 | NH7ZT | 1 | | |
| WH6JOE | 24 | WH6ETE | 8 | WH7PD | 4 | WH6FLQ | 2 | AH6QO | 1 | | |
| WH7D | 24 | WH6ACT | 8 | KH6RF | 4 | KH6BB | 1 | WH6FLO | 1 | | |
| KH6MOI | 24 | NH7YS | 7 | NH6IY | 4 | KH7O | 1 | NH6PY | 1 | | |
| WH6DWF | 24 | WH6GVN | 7 | WH6DZS | 4 | KH6GL | 1 | WH6FTE | 1 | | |
| WH6GNK | 23 | AH6RK | 7 | KH6OJ | 3 | KH6CE | 1 | WH6JEN | 1 | | |
| SM2AYE | 23 | KH6KU | 7 | AH6JA | 3 | NH6XO | 1 | WH6CMO | 1 | | |
| WH6BZ | 23 | WH6HC | 7 | K3SCH | 3 | KG6OPE | 1 | HANS | 1 | | |
| WH6HBR | 23 | WH6LQ | 7 | WH7WZ | 3 | KH6RO | 1 | BENARD | 1 | | |
| AH6EI | 22 | WH6GZZ | 7 | AH7RF | 3 | KH6IMB | 1 | WH6GBS | 1 | | |
| AH6VG | 22 | KH6SEN | 7 | KH6DQ | 3 | KH6LOL | 1 | WH6GZY | 1 | | |
| WH6GRT | 22 | WH6FSA | 7 | WH6LU | 3 | KH6IB | 1 | WH6FSF | 1 | | |
| WF1A | 20 | KISVWE | 7 | KE7ULJ | 3 | KH6RT | 1 | KH6HA | 1 | | |
| KH6DK | 20 | KH6USN | 7 | WH6GXZ | 3 | KH6OM | 1 | WH7RE | 1 | | |
| WH6GRO | 20 | AH6RR | 6 | WH6FSH | 3 | KH6FV | 1 | WH6TLD | 1 | | |
| WD8DAS | 19 | KH6ML | 6 | WH6AOK | 3 | | | KH6H | 1 | | |
| WH6BY | 18 | WH6EBS | 6 | WH6HAM | 3 | WH6GWS | 1 | WH6AJT | 1 | | |
| WH6GPZ | 18 | WH7GG | 6 | WH6GUI | 3 | WH7JOE | 1 | KG7CWF | 1 | | |
| NOSEX | 18 | WH6GRW | 6 | WH6GDM | 3 | | | KH6HHT | 1 | | |
| WH6GUH | 18 | AF0SF | 6 | N9SBL | 3 | KH7FX | 1 | WH6FQQ | 1 | | |
| KH6HT | 17 | KH6ATU | 6 | WH6OMG | 3 | AH6I | 1 | KH7DB | 1 | | |
| KH6U | 17 | WH6GXF | 6 | WH6FUP | 3 | AH6OX | 1 | WH7DB | 1 | | |
| KH7DQ | 17 | WH6GAJ | 6 | NOSEX | 3 | WH6BRX | 1 | NH7I | 1 | | |
| AH6T | 17 | WH6HAY | 6 | WH6EIX | 3 | WH6HJ | 1 | AH6EK | 1 | | |
| KH6EGA | 16 | KH6LT | 6 | WH6ESA | 3 | WH6HCJ | 1 | WH6GQD | 1 | | |
| KH6LK | 16 | KH6HK | 6 | KH6JU | 3 | W8GTK | 1 | WH6GAN | 1 | | |
| WH7BR | 16 | KH6EKD | 6 | KH6D | 3 | WH6BPZ | 1 | NH7IT | 1 | | |