



# Full Quieting

The Official Journal of The Bellbrook Amateur Radio Club



June 2026 — Issue 58

## In This Issue

<a href="#">From the Editor</a> .....	1
<a href="#">Full Quieting Masthead</a> .....	2
<a href="#">Member Interview Questions</a> .....	2
<a href="#">President's Corner</a> .....	3
<a href="#">What's Up BARC?</a> .....	4
<a href="#">Hamvention™ Photos &amp; Report</a> .....	4
<a href="#">BARC Swag Information</a> .....	9
<a href="#">Officer, Director, and Coordinator Inputs</a> .....	10
<a href="#">BARC Event Calendar</a> .....	11
<a href="#">BARC Movie and Dessert Night</a> .....	12
<a href="#">BARC Website Rebuild</a> .....	13
<a href="#">The 1130 DMR Net Stats for 2026</a> .....	16
<a href="#">1<sup>st</sup> Saturday in June (BARC POTA Adventure)</a> .....	17
<a href="#">Lunch Bunch Plans for the Month</a> .....	18
<a href="#">Lunch Bunch Calendar</a> .....	19
<a href="#">Cleaning Up from the Storm</a> .....	20
<a href="#">June HamClock Update</a> .....	22
<a href="#">Setting Up Your Raspberry Pi HamClock</a> .....	25
<a href="#">Special Event Stations for the Month</a> .....	31
<a href="#">Amateur License Test Questions</a> .....	34
<a href="#">Editorial Policy and Style Guidelines</a> .....	37
<a href="#">Miscellaneous BARC Information</a> .....	39

## From the Editor

I wish a Happy June to all of you! How did we get here so quickly? You know what June means, right? *Field Day!* Arguably the most anticipated event of the year, right up there with the Hamvention. Pay close attention to Eric KC8OPY's instructions in the weeks ahead as we polish up the last items in preparation for the event itself. Field Day is a great opportunity to get on the air, socialize, eat great food, showcase ham radio to visitors and curiosity seekers who may end up becoming hams themselves someday. It has happened before and will happen again.

One item I cover in this issue is a picture gallery of our participation at the Hamvention. The few pages I have here don't do justice to the things we saw and the people we met, not to mention the steps we took getting around the Hamvention site. Those of you who wear fitness trackers gained some fitness points for sure.

We also have a great progress report from our Webmaster on the changes being rolled out on our BARC webpage. Check it out when you can and please give Doug K8DRH, our Webmaster, some feedback if there are things that need to be modified.

I also mention the critical need for those of you who use HamClock to change its settings to the new locations that will be taking over the role of providing your HamClock with the information it needs. No need to wait until your HamClock quits working, change it over now and test it. I can help you if you hit a snag.

Spend some time getting reacquainted with contacting special event stations. Paul WS8R mentions quite a few interesting stations, and with America 250 rolling in full force in July you may want to contact some special event stations and send in for a keepsake QSL card that may end up being a treasure not only for you but something to hand down to your offspring to treasure as a bit of history from our 250<sup>th</sup> anniversary coming up July 4th.

Now, get out and enjoy June, for example our POTA event on June 6<sup>th</sup>?!

**73, Ray Hitt, N8VMX**  
Full Quieting Editor



# Field Day is Jun 27-28

## 2026 BARC Officers and Directors

President: Geoff Kline, [KI5VNB](#)

Vice President: Eric Bramini, [KC8OPY](#)

Secretary: Jim Gifford, [N8KET](#)

Treasurer: Thomas McClory [KE8FWZ](#)

Senior Director: Don Macon, [KE8VVJ](#)

Junior Director: Glenn Rodgers, [WI8O](#)

## 2026 Coordinators

Antennas: Ray Hitt, [N8VMX](#)

Clubhouse: Jim Lusk, [KC8EFD](#)

Comm Center: John Westerkamp, [W8LRJ](#)

Community Service: Don Parker, [KB8PSL](#)

Contesting: Ken Gunton, [W8ASA](#)

Education: Bob French, [AC8ZU](#)

Emergency Preparedness: Jim Lusk, [KC8EFD](#)

Field Day: Eric Bramini, [KC8OPY](#)

Full Quieting Editor: Ray Hitt, [N8VMX](#)

Hospitality & Librarian: Natinka Siwecki, [KD8NUA](#)

IT: John Westerkamp, [W8LRJ](#)

Lunch Bunch: Jim Totten, [WA8HUB](#)

Membership: Jeff Pursel, [KJ6XC](#)

Net: Paul Sharp, [WS8R](#)

QSLs: vacant

Repeater: Russ Roysden, [N8NPT](#)

Tech Night: Bob French, [AC8ZU](#)

Webmaster: Doug Hayward [K8DRH](#)

## BARC Net: Every Sunday, 8 PM Local

147.045 (+) (118.8 PL enc and dec) [Alt = 443.675]

### Directions to BARC Clubhouse and Radio Room

St. Pierre Education Center

3757 Upper Bellbrook Rd

Bellbrook, OH 45305

[Map Link](#)

Park in front of building, enter in front-right door.

**Conference room:** Take first hallway to the left, conference room is on the right. **Radio Room:** Straight down hallway, left turn into gym. Door on left.

# Member Interviews

BARC wants to hear from you!

Whether you're a long-time BARC member or a brand new one, young or old, please tell us about yourself. Here are some simple guidelines, although you're free to use whatever format you're comfortable with.

This page is all about you. It's your chance to let BARC members to get to know you better.

Here's are a few sample questions to help get you started, but you can write whatever you want.

Please send us some pictures of anything you want BARC to see (you, station, antennas, pets, family, anything)

- When you were first licensed?
- How did you learn about Ham Radio (HR)?
- Why did you become a Ham?
- What are your current HR interests?
- What are you most passionate about regarding HR?
- Tell us about your stations (past, present, and future)
- What was the most exciting thing that happened to you in HR?
- What do you do for a living?
- Would you like to say something about your family?
- Do you have other hobbies or interests?
- Any other comments for BARC?



# President's Corner

Wow, May went by fast!

We wrapped up the month with some wonderful news: BARC has been chosen as **Club of the Year** by the Cincinnati Hamfest. They anticipate presenting the award to us in the main hall of the Hamfest at **1:00 PM on Saturday, August 15**. They are also planning to take some group photos, so if you are available, please come on down and help represent BARC.

This award is a recognition of the work, energy, kindness, and enthusiasm that each of you brings to the club. Whether you help with events, teach a new ham, bring food, work behind the scenes, show up for meetings, answer questions, help maintain the clubhouse, or simply make a visitor feel welcome, you are part of what makes BARC special. Congratulations to all of you.

Our next big event is **Field Day** later this month, and I hope to see many of you there. If you see me during the event, please stop and say hello, especially if we have not yet had a chance to have a one-on-one conversation. I would enjoy that.

I also encourage everyone to stop by Field Day even if you do not plan to get on the radio. There is always an opportunity to spend time with other club members, ask questions, learn something new, or just enjoy being around the activity. And yes, you really can find someone to talk to at almost any hour during the 24-hour event. Some of the best conversations I have had with club members happened well before the sun came up on Sunday morning.

If you have not been to **Movie Night** before, or if it has been a while, give it a try. We recently retired the projector and replaced it with a large television mounted above the repair bench. Paired with the audio system that was donated several months ago, the experience keeps getting better. While we still do not have La-Z-Boy recliners or in-movie wait staff, it is still a great time to visit, relax, and eat some popcorn.

As we transition into summer, I hope you will make an effort to attend at least one BARC activity that you do not usually go to. Maybe that is Lunch Bunch, the POTA Special Interest Group, Tech Night, Movie Night, Field Day, or one of the other events the club puts on throughout the year. These gatherings are a great way to meet other members, learn something new, and get a little more connected with the club.

I would also encourage you to try something new in amateur radio this summer. It does not have to be complicated. Try a new mode, activate a park, build a small antenna, repair a piece of gear, make a contact on a band you do not normally use, or help another ham with a project. Then consider writing a short article for the newsletter and sharing it with the rest of us.

We love seeing what members are working on, and chances are good that someone else in the club will be interested in the same thing.

Thanks again for everything you do for BARC. I hope to see you at Field Day, at the clubhouse, and at the Cincinnati Hamfest as we celebrate this well-earned recognition together.

**Geoff Kline, [K15VNB](#)**

President, Bellbrook Amateur Radio Club



# What's Up BARC?

What's Up BARC?

Ray Hitt, [N8VMX](#)

Announcements regarding any member news including: new equipment, antennas, grandchildren, children, pets, operating news, etc.



## Dayton Hamvention™ 2026

Hamvention™ 2026 is in the books, a record year with over 37,000 attendees. Many members of BARC signed up as Hamvention volunteers, others manned the BARC flea market spots (7662 and 7663). Many of the Amateur Radio YouTubers processed in through the Media Trailer and shot some live streams on the grounds. Meanwhile, here are some photos of us captured at the Hamvention. Enjoy!



*BARC Flea Market Booth 7662-7663*



*Emerio, KE8JNQ*



*Hamvention Central Courtyard*



# What's Up BARC? (continued)

## Dayton Hamvention™ 2026 (continued)



Sampling of Hamvention sights, Larry KD8RER providing cart service



# What's Up BARC? (continued)

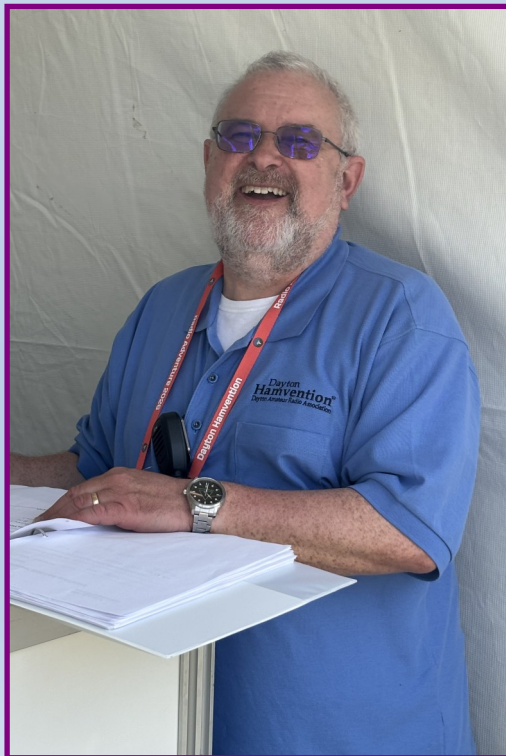
## Dayton Hamvention™ 2026 (continued)



*Tom, KE8FWZ*



*Tink, KD8NUA*



*Steve, KD8NUC*



*Michael, W8CI and associates*



# What's Up BARC? (continued)

## Dayton Hamvention™ 2026 (continued)



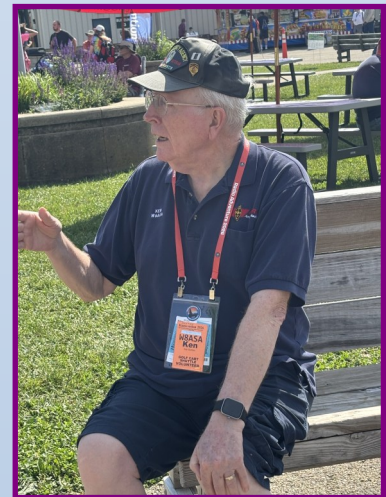
*Joe, N8QOD*



*Paul WS8R and Eleanor N8OVR*



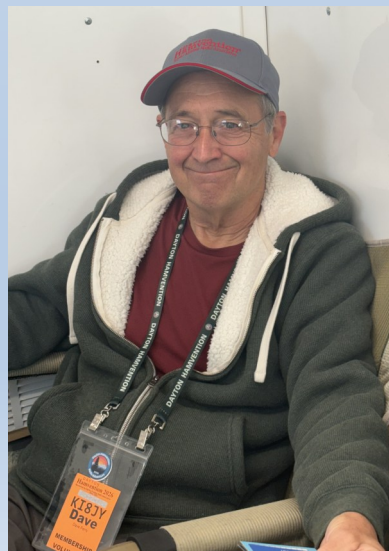
*Jackie, KE8LZE*



*Ken, W8ASA*



*Brandon and Eric KC8OPY (dad)*



*Dave K18JY*



*Ken N8SPW*



# What's Up BARC? (continued)

## Dayton Hamvention™ 2026—Report from Randy KA0AZS



Pictures with Sebastian , K12D, author of POLO portable logging software, and a member of the GridTracker development team (left), and Randy KA0AZS (right)



The two Jason You Tubers; Jason KC5HWB of Ham Radio 2.0 (right) and Jason , KM4ACK, who uses his call for his channel (left)

Randy KA0AZS (center)

<https://www.ham2k.com/>

<https://www.youtube.com/@KM4ACK>

I ran into a few other YouTube creators, but they were involved with other stuff only got a quick hello.

My major purchase was a battery for my Kenwood TH-D74; 5Ah, USB C rechargeable, and replaceable cells from W0AEZ (w0aez.com). I charged it up Friday evening and started my radio Saturday morning before leaving home. GPS and Smart Beacons on and didn't turn it off until about 2200 that night. It was still running, the battery indicator on the radio was in the yellow, but still had some life to it. About 12 hours with constant APRS and occasional voice traffic. Cheaper than the stock Kenwood battery. Recommended.

**73, Randy KA0AZS**

## Welcome, New Members

Mark Morrow, **KX80**, Extra  
Patti Knight-Lutz, **KE8BAN**, Technician  
Jeff Nozar, **KF8FRM**, Technician



# What's Up BARC? (continued)

## BARC Swag from Emerio KE8JNQ

In the April 2025 planning meeting, the club officers approved Emerio KE8JNQ to offer a variety of items for sale all in Blue BARC Color. These items complement the other items being offered for sale from other vendors. Notice that the logo is a larger size so other Amateur Radio Operators can see it better. All BARC members get this discount price. If you need more information or would like to order, contact Emerio KE8JNQ. His telephone number is 937-546-9477.



## BARC Swag from Parrot Promo Essentials

We have polo shirts, sweat shirts, hoodies, t-shirts, ball caps, and softshell jackets from Parrot Promo Essentials. You can order them directly from our website, at <https://bellbrookarc.org/wp/order-barc-gear/> These shirts are a little more expensive than those offered by Emerio, but they match the ones you've seen many of us wearing already.

## BARC Mugs from Chris Hanselman, AD8OM

For those of you wanting 20 oz insulated BARC mugs, please contact Chris Hanselman, AD8OM, at [deeremt@gmail.com](mailto:deeremt@gmail.com). They are offered in Blue with silver print and Black with copper print. Look for some new designs to be unveiled soon to add to your collection!



# Officer, Director, and Coordinator Inputs

**Secretary:** Jim Gifford, [N8KET](#): The secretary wrote notes for the planning meeting and minutes for the general meeting. He also coordinated a POTA Adventure the first Saturday of June.

**Treasurer:** Tom McClory, [KE8FWZ](#): Expenses for May 2026 totaled \$933. This includes \$162 recurring monthly expense to Spectrum for internet services, and one-time expenses of \$152 for the Hamvention Flea Market site and \$619 for the large screen monitor installed in the communications room. Income for May 2026 was \$433 consisting of \$22 from the refreshment's jar, \$155 for club memberships, and \$256 donation from the Hamvention Flea Market sales. The club ends the month with \$8,889 bank balance. Anticipated expenses for June are the recurring \$162 Spectrum expense and a one-time expense of \$331 to replace the internet router at the repeater site.

**Repeater:** John Westerkamp, [W8LRJ](#): Work continues to clean out the repeater site and organize connections and cables. A Cisco VPN router has been ordered, similar to the one at the clubhouse, to replace the ancient, personal router currently in use. This will make the repeater site more secure and allow for easier remote administration. The new router will be installed sometime in June.

**Communication Center:** John Westerkamp, [W8LRJ](#): Progress is still being made in the radio room! Most of my recent efforts have been toward preparing the logging laptops for Field Day which are just about ready. I am also preparing the desktops and a 4<sup>th</sup> radio station in case we are indoors for Field Day. Most of our rooftop work has been approved and we should be scheduling a work day soon to install the hexbeam antenna and the HDTV antenna.

**BARC Net Manager:** Paul Sharp, [WS8R](#): Every Sunday at 8:00 PM you can listen to and participate in the exciting BARC Net, on 147.045. For the 4 weeks in May 2025 there were approximately 75 check-ins lasting 183 exciting and informative minutes. Topics ranges from Open Mike, Parks on the Air, what did you do and buy at Hamvention, and your experience with UFOs.

Connie Gifford set a new BARC record for having the longest BARC Net since Marconi invented the radio: 26 checkins for 76 minutes!!!

Our faithful Net Controllers are, Larry Darner KD8RER, Connie Gifford W8CSG, Jim Gifford N8KET, Tink Siewicki KD8NUA, Eric Bramini, KC8OPY, and Paul Sharp WS8R. Joe Menchaca, KE8UUA as a trusty alternate.

**Membership:** Jeff Persel, [KJ6XC](#): We had 6 new members join and 1 late renewal bringing our current total to 163.

**Webmaster:** Doug Hayward, [K8DRH](#): See full article, page 11



# BARC June 2026 Event Calendar

**Tue Jun 2, 2026**

**6:30pm POTA SIG** .....Where: BARC Clubhouse

**Thu Jun 4, 2026**

**7pm Planning Meeting** ..... Where: BARC Clubhouse

**Sat Jun 6, 2026**

**9am BARC 1st Saturday POTA Experience** .....Where: Aberdeen Community Park  
.....[886 High St, Aberdeen, OH 45101](https://www.google.com/maps/place/886+High+St,+Aberdeen,+OH+45101)

**Sun Jun 7, 2026**

**2-4pm Spring Tune-Up** .....Where: BARC Radio Room

**8pm Weekly Net** ..... Where: 147.045+ (118.8 Hz tone)

**Tue Jun 9, 2026**

**11:15am Lunch Bunch**.....Where: [Submarine House](#)

**Sun Jun 14, 2026**

**8pm Weekly Net** ..... Where: 147.045+ (118.8 Hz tone)

**Tue Jun 16, 2026**

**6:30pm Tech Night** .....Where: BARC Clubhouse

**Thu Jun 18, 2026**

**7pm Membership Meeting** ..... Where: BARC Clubhouse

**Sun Jun 21, 2026**

**8pm Weekly Net** ..... Where: 147.045+ (118.8 Hz tone)

**Tue Jun 23, 2026**

**11:15am Lunch Bunch**.....Where: [Rooster's](#)

**Thu Jun 25, 2026**

**7pm Dessert & Movie Night**..... Where: BARC Clubhouse

**Sat-Sun Jun 27-28, 2026**

**8pm Field Day** .....[Sackett Wright Park, Bellbrook](#)



# BARC Movie and Dessert Night

## June 25th 2026!

What better way to watch a movie than on a big screen TV. Thanks to our guys at BARC we now have a great way to watch movies on the 4th Thursday of each month! *Alita Battle Angel*, our movie for May, was a great way to break in our new screen. In June our next film is *Now You See Me, Now You Don't*. In the past we have seen the first two movies in this series; *Now You See Me & Now You See Me 2*. Number three looks like it will just as entertaining. In July and August we have a couple back to back comedies that are oldies but goodies.

<u>Date</u>	<u>Title</u>	<u>Genre</u>	<u>Actors</u>
✓ January 22, 2026	<b>Groundhog Day</b>	Comedy	Bill Murray
✓ February 26, 2026	<b>Aqua Man &amp; the Lost Kingdom</b>	Adventure	Jason Momoa
✓ March 26, 2026	<b>The Italian Job</b>	Adventure	Mark Wahlberg
✓ April 23, 2026	<b>Rental Family</b>	Comedy/Drama	Brendan Fraser
✓ May 28, 2026	<b>Alita Battle Angel</b>	Action	Rosa Salazar
June 25, 2026	<b>Now You See Me/Now You Don't</b>	Action	Woody Harrelson
July 23, 2026	<b>For Richer or Poorer</b>	Comedy	Tim Allen/Kirstie Alley
August 27, 2026	<b>Cool Runnings</b>	Comedy	John Candy
September 24, 2026			
October 22, 2026			

BARC movie nights are held on the **Fourth Thursday** of each month **January** through **October** at **7:00 PM in the BARC Clubhouse**. We take November and December off for the holidays. At each movie night we pop up, *fresh*, BARC's famous popcorn and you never know what we will come up with for dessert! We welcome movie recommendations.

Our BARC 2026 Movie Season continues in our new clubhouse with a great mix of fun movies, great people and a new big screen TV!

***We'll see you in June at the Movies!***

Tink  
KD8NUA



# BARC Website Rebuild

Doug Hayward, [K8DRH](#)

Here is a summary of the current state of the BARC website rebuild project — what has been accomplished, obstacles that were encountered and resolved, and what remains to be done before the site goes live.

The goal from the outset was to update the WordPress site with a clean, professional, fully-designed presence that reflects BARC's standing as a HAM radio club — one that serves both prospective members browsing for the first time and active members who need quick access to club resources.

The rebuild was designed for WordPress with the Hello Elementor theme and Elementor Pro, preserving the club's existing hosting arrangement while delivering a site that looks and works like something a much larger organization would build.

## What Has Been Built

The design and content phase of the project is complete. Every page has been designed, written, and coded as a standalone HTML file ready to be pasted into Elementor HTML widgets in WordPress. A single global CSS file contains all typography, color variables, layout, and component styles — loaded once in Elementor's Site Settings and applied automatically across all 32 pages.

In addition to the 32 pages above, two global template files were built — a site-wide header (with dropdown navigation and login button) and a site-wide footer — both designed as Elementor Theme Builder templates that wrap every page automatically.

One of the most significant investments in the project was building a proper design system before any page content was written. This is work that most volunteer-built club websites skip entirely — and the lack of it is usually why club websites look inconsistent and dated within a year.

**Color palette:** Each color family has a clear semantic purpose, so every page communicates its section visually as well as textually. All 39 values are documented in a formal palette reference file.

**Typography:** Source Serif 4 and Source Sans 3 are used throughout — a pairing that gives the site editorial weight and professionalism without feeling corporate or cold.

**Component library:** Rather than designing each page from scratch, a reusable component system was developed: hero sections, stat bars, card grids, sidebar navigation, excerpt lists, data tables, badges, info callouts, and CTA strips. Pages are assembled from these components, which ensures visual consistency and makes future maintenance straightforward.



# BARC Website Rebuild (continued)

**Navigation structure:** The top navigation uses a single-bar design with dropdown menus organized into logical clusters. The main nav items are Home, About, Repeaters & Nets, Events & Programs, Newsletter, Calendar, and Resources — with deeper program and about sub-pages accessible via dropdowns. The Members portal and Contact Us links appear as distinct buttons at the right end of the header, visually separate from informational navigation.

## The Member-Only Portal

One of the defining features of the new site is a proper members-only area. Non-members visiting the Members section see a professional login gate with a clear description of what's inside and a call to action to join. Active members who log in are taken to a personalized dashboard.

The Member Portal is built around the **Ultimate Member** WordPress plugin, which handles authentication, access restriction, profile management, and registration. Elementor Display Conditions (Pro feature) are used to show or hide content based on login state — so the login gate and the member dashboard live on the same page URL, with the correct view shown automatically.

**What members can access after logging in:**

**Meeting Minutes Archive**

**Member Roster & Callsigns**

**Net Control Resources**

**Internal Announcements**

**Membership Forms & Renewal**

**Presentation Slides Archive**

Not active at this time, the registration page includes a dues payment flow that connects to a PayPal button (the actual PayPal link will need to be configured if we go that way). New member accounts are created with the Subscriber role.

Login state is also reflected in the site header — when a member is logged in, the Members button in the top navigation changes behavior to link directly to the dashboard rather than the login gate.



# BARC Website Rebuild (continued)

## What Remains

The design, content, and coding phase of the project is complete. What remains is the WordPress installation and configuration phase, which is documented step by step in the **BARC Install Guide** file.

**At a high level, the remaining work includes:**

- Installing a new clean WordPress website at bellbrookarc.org activating the Hello Elementor theme, and installing the required plugins (Elementor Pro, Ultimate Member, WPForms Lite, The Events Calendar, and Yoast SEO).
- Loading the global CSS and Google Fonts into Elementor Site Settings.
- Creating all 32 WordPress pages with the correct slugs (internal WordPress links) and Elementor Canvas template.
- Building the header and footer as Elementor Theme Builder templates.
- Pasting each page's HTML content into Elementor HTML widgets.
- Configuring the navigation menu with the correct dropdown structure.
- Setting up Ultimate Member for member login, registration, and access restriction.
- Creating initial member accounts and assigning appropriate user roles.
- Configuring the events calendar with recurring net and meeting events.
- Running a final pre-launch checklist covering links, mobile responsiveness, and SEO meta descriptions.

**Time estimate for the install phase:** The installation guide breaks this into 10 phases with individual time estimates. Total estimated installation time for someone working methodically through the guide is two or three 8–12 hour sessions.

73, Doug, [K8DRH](#)



# The 1130 DMR Net—Statistics for 2026

Ray Hitt, [N8VMX](#)

The **1130 DMR Net** meets Monday through Friday on the DMR talk group 310557. This is Tim, N8NQH's East repeater talk group. Details to connect to it are on the last page of every Newsletter.

I started taking statistics in 2026, and here are the results for January through May.

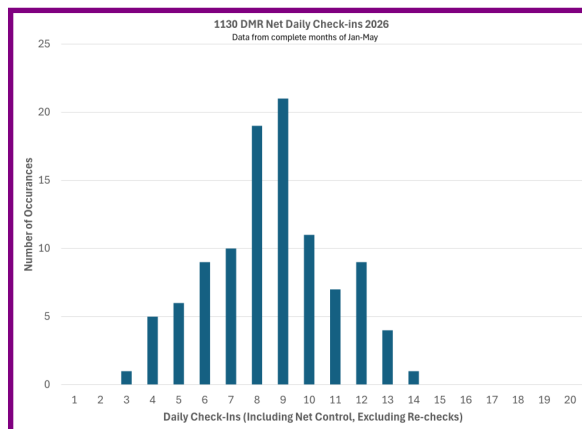
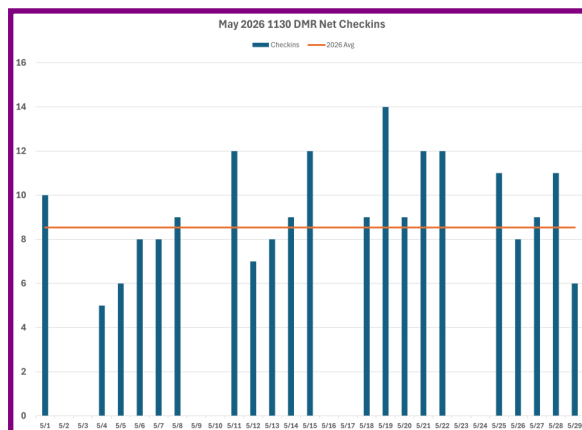
Since January, we've had **896** check-ins. The average number of check-ins per day fell from **9.32** in April to **9.29** in May, a very small change. The month to month percentage growth from the previous month is shown in the chart. The number of check-ins in May fell **4.88%** from April. The number of daily check-ins has ranged from **3-14**. The net is starting to attract folks from around the country as well as the UK and Canada.

We're up to a list of **48** people who have checked in from Jan-Mar at least once. We picked up **15** new people in May. Word of mouth is spreading across the DMR and DSTAR nets, so hopefully this net will continue to grow in popularity. It's nice to make new friends around the world!

Net Control Stations are: Ray N8VMX (Monday), Kevin KF8BHL (Tuesday), Jim WA8HUB (Wednesday), Brian AA4BK (Thursday), and Ian M6PBY (Friday).

If any of you need help programming your DMR radio to get on the net, please contact Ray [N8VMX](#), we can meet at the clubhouse and set you up.

	Check-ins	Average Daily Check-ins	% Increase
Jan-2026	127	6.35	0.00%
Feb-2026	169	8.45	33.07%
Mar-2026	200	9.09	18.34%
Apr-2026	205	9.32	2.50%
May 2026	195	9.29	-4.88%
2026 Total	896	8.53	



# 1<sup>st</sup> Saturday in June (BARC POTA Adventure)

Glenn Rodgers, [WI8O](#)



This month's BARC POTA Adventure is centered around Aberdeen, OH, on Saturday, June 6<sup>th</sup>. The easiest way to get there is to drive Hwy US-68 South until it intersects Hwy US-52 East which will take you to the village of Aberdeen. You will see a [nice local park](#) on the Ohio river. The drive will take a couple of hours, so plan accordingly. I plan to leave Beavercreek at 07:00 in order to be in the park and ready to activate by 09:00. This park has sufficient parking, picnic tables, and a re-

stream... I have found it to be an excellent place to log a spot on the Lewis & Clark Trail (US-4572 OH). This is one of those POTA parks that traverses many states, and may spark an interest in activating the entire Lewis & Clark network of states. Consider your antenna and preferred way of getting on the air, as well as which mode you want to try. When I was here a few weeks ago I setup a vertical antenna and operated using FT8 from a very convenient picnic table. I will probably use FT8 for this adventure also... at least until I have enough QSOs to activate the park, and then switch to hunting other activators on CW. So consider what works best for you, and make sure you have everything you will need with you.

We will be meeting at the site rather than getting together for breakfast on the way. Anyone wishing to "make a day of it" can activate another park on the way home, some of us may want to have lunch somewhere. This adventure will be open ended so feel free to make whatever plans works best for you.

If you would like to know more about how the Corps of Discovery as it came to be known, began in May of 1804, I recommend you read: "This Vast Enterprise" by Craig Fehrman. This narrative delves deep into the the two year, 8,000+ mile expedition through the wilds of the Pacific Northwest and back, and how it transformed the continent of North America forever. Authorized by President Thomas Jefferson it would chart the course of Manifest Destiny following the Louisiana purchase.



Hope this is useful, looking forward to seeing as many of my fellow POTA People as can make it for this adventure!

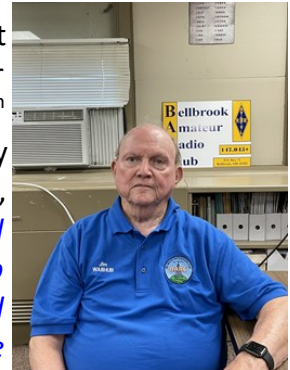
**73, Glenn, [WI8O](#)**



# Lunch Bunch

Jim Totten, [WA8HUB](#)

Hello my fellow lunch lovers. May 2026 is about over and we had some great lunches this month. Now let's discuss the terrific lunches we had in May. At our first lunch in May it was guaranteed that all will have a full meal. On May 12<sup>th</sup> we attacked the China Garden Buffet located in Airway Shopping Center. My daughter was visiting and I did not attend the lunch. Mark, NK8Q sent me this, *"There were four total attendees which included Don and Ruth, Richard and Mark, NK8Q. Of course the meal was as good as always and even Mark, who recently had lost significant amount of weight since we last saw him, enjoyed some healthier seafood options from the buffet. After introductions between the four of us there were a good variety of topics that were discussed. Life at St. Leonard's, where Richard is a resident was a popular topic for a bit before talking about more technical ham radio things like Flex Radio (and SDRs in ham radio in general)."* Our second lunch was on



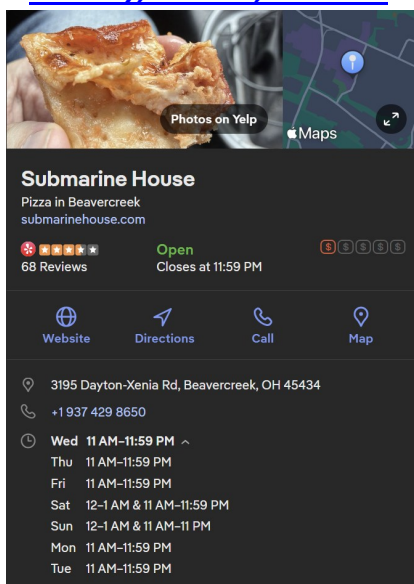
May 26, 2026 at First Watch, in the Cornerstone complex. Another wild menu. Big dishes, elegant salads, a really wide range of selections. We had a good group for this lunch. Tim, Don and Ruth, Richard, Denny and myself. As usual Ruth had a beautiful salad dish. I had an omelet, which I could hardly finish. The waffle that Tim had looked scrumptious.

Now comes June. Spring/Summer is here?? and we should have good weather. The lunch chart is available on the next page. The June lunches are in **bold print**. Our June lunches still have some of the most wonderful food. Our first lunch in June on Tuesday, June 9<sup>th</sup> is the famous Submarine House at 3195 Dayton Xenia Road in Beavercreek. It is In the same general parking lot as a Big Marion's Piazza and next to a large Kroger. The sandwich called Pistol is my favorite. Our second lunch is on June 23<sup>rd</sup> and is Roosters Wings, located in The Shoppes at Fairfield Commons. This small center is on the right as you head north on Fairfield. The menu is much broader than wings.

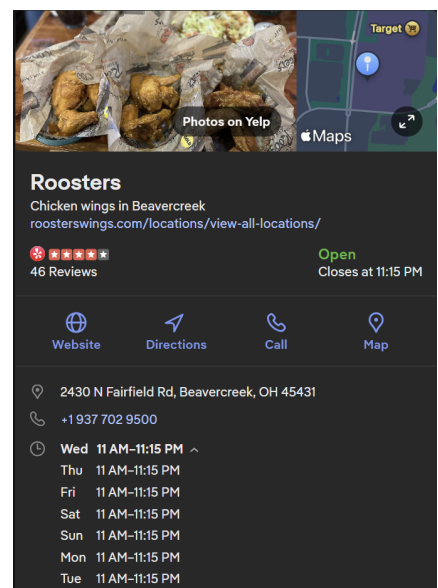
That's a wrap for this month. Happy eating.

73, Jim, [WA8HUB](#)

**Tuesday, June 9<sup>th</sup>, 11:15am**



**Tuesday, June 23<sup>th</sup>, 11:15am**



Click picture or hyperlink for more info and maps

(Continued on next page)



# Lunch Bunch List

Jim Totten, [WA8HUB](#)

Date	Restaurant	Address	City	Phone Number
01/13/26	Culp's Cafeteria	1000 Carillon Blvd	Dayton, OH 45409	(937) 293-2841
02/10/26	City Barbecue	2001 E. Dorothy Lane	Kettering, OH 45420	(937) 200-1006
02/24/26	Marion's Piazza	1320 N Fairfield Rd.	Beavercreek, OH 45432	(937) 429-3393
03/10/26	Red Robin	2671 Fairfield Commons Blvd.	Beavercreek, OH 45431	(937) 320-9800
03/24/26	Beavercreek Pizza Dive	4021 Dayton-Xenia Rd.	Beavercreek, OH 45432	(937) 431-8669
04/14/26	Cherry House Cafe	1241 Meadow Bridge Dr	Beavercreek, OH 45434	(937) 320-6200
04/28/26	Another Broken Egg Cafe 7:00 am to 2:00 pm	2453 Esquire Dr.	Beavercreek, OH 45431	(937) 912-5074
05/12/26	China Garden Buffet	112 Woodman Dr. Airway Shopping Center	Dayton, OH 45431	(937) 781-9999
05/26/26	First Watch 7:00 am to 2:30 pm	5245 Cornerstone North Blvd	Sugarcreek Twp, OH 45440	(937) 732-9013
06/09/26	Submarine House	3195 Dayton-Xenia Rd.	Beavercreek, OH 45434	(937) 429-8650
06/23/26	Roosters Wings	2430 N. Fairfield <i>The Shoppes at FC</i>	Beavercreek, OH 45431	(937) 702-9500
07/14/26	Butterbee's	217 Progress Dr.	Xenia, OH 45385	(937) 352-6504
07/28/26	Shawarma Grill	2844 Colonel Glenn Hwy	Fairborn, OH 45324	(937) 429-4959
08/11/26	Chic-Fil-A	5301 Cornerstone N Blvd	Sugarcreek Township, OH 45440	(937) 439-1700



# Cleaning Up from the Storm

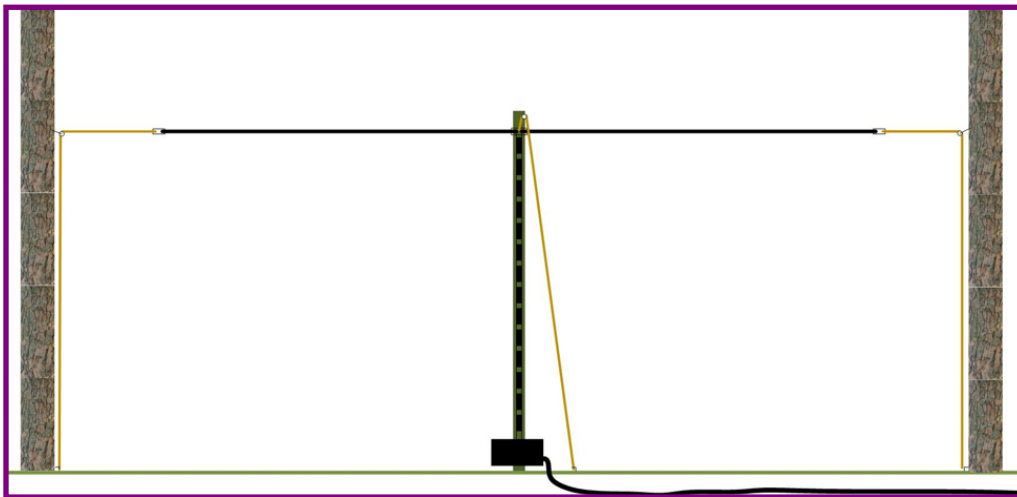
Ray Hitt, [N8VMX](#)

On Tuesday night, May 19<sup>th</sup>, we had a strong thunderstorm roll through the Dayton area. Here in Bellbrook, we had heavy rain (but nothing like what rolled through Xenia). We did have something unusual however; a strong downburst that affected my neighborhood. This downburst snapped one of my 70-foot tall silver maples about 30 feet off the ground, toppling the top 40 feet of the tree directly into my 40-meter dipole. My neighbors on either side of me had large tree segments fall as well, all in the same easterly direction.



I'm not writing this article to talk about the storm damage. I was able to use my chainsaw to cut the tree into future firewood and cleaned up the lot in just a few hours. The tree fell away from the house and us! What I wanted to write about was my dipole.

I have a 40-meter dipole tied to two large trees at the ends. I have a pulley around 30 feet up on each tree (the highest I can go with the ladder I have). I use parachute cord through the pulleys, tied off to insulators and the dipole ends. Here's a drawing I made of how it is set up (below).



The wire I use is [14 AWG copper-clad steel wire](#) from The Wireman, obtained several Hamventions™ ago. I feed it with ladder line, down to a MFJ 993BRT automatic tuner at chest height from the ground. RG-8 feeds back into the house from there. The center of the dipole is supported by a pulley

attached to 7 fiberglass poles roughly 9 meters in height total. They are bungie corded to a playhouse I have in the backyard. This setup has been standing for over 10 years so far.

The ends of the dipole are tied with medium-size insulators to roughly 1mm diameter parachute cord, relatively light duty compared to what is available, from Mastrant for example. The ends of the parachute cord are tied off to tent stakes at the base of each tree. The ladder line in the center is also able to be lowered to the ground with 1mm parachute wire tied off to a tent stake at the base of the center feed.



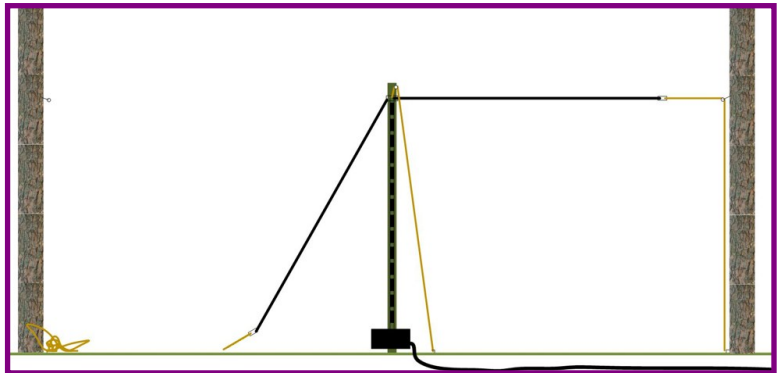
## Cleaning Up from the Storm (continued)

Here's a picture of the tree that fell. While it did fall away from the house, I saw no evidence of having a 40-meter dipole anymore. Looking closely, I saw it was underneath the tree. Oh no...



Looking more closely, I found the dipole wire and followed it down and found it still attached to the insulator, along with a few feet of parachute cord. Looking at the tree, I saw the rest of the parachute cord lying on the ground, and nothing attached to the naked pulley 30 feet up the tree. Here's a picture of how the antenna was impacted by the tree to help illustrate the point (below).

So, the parachute cord failed when the tree fell, not the antenna wire. That got me thinking that it's probably a good idea to use weaker parachute cord than the wire. It's a lot less expensive to replace a few feet of parachute cord than to restring the antenna with new wire.



I was able to replace the parachute cord with some more (I have a several hundred foot spool) and reposition the guy wires right after the weather cleared. Of the 7 fiberglass mast segments, one had split part way and had to be thrown out. I ended up replacing all of them since they had shown signs of extreme weathering and were weakened. I have numerous spares on hand, so I replaced them. I did lower the height from 7 segments to 5 for safety reasons and I will monitor how well this antenna performs 9 feet lower than before. Next time a storm comes, I may just lower the dipole ahead of time and avoid all this trouble!

73, Ray [N8VMX](#)



# June Hamclock Update

Ray Hitt, [N8VMX](#)

Development is progressing in the rollout of replacement backend servers that you would use to send data to your HamClock. There are three backend servers purported to be compliant with the exact needs of the original HamClock program and all of its updates. Please note that these do not include the several HamClock replacements that are complete redesigns and not compatible with existing HamClocks running the original client software. A brief description of the three compatible backend servers is included here.



- **Clearskyinstitute:** This is the original and default HamClock backend server created by Elwood Downey, WBOOEW (sk). Since his going silent key on January 29<sup>th</sup>, 2026, the server has been slowly deteriorating. The web site certificates have expired and will likely not be renewed. This impacts any ability to automatically update your client software from this site. No software development or server maintenance is happening. Satellites don't update, the TLEs (two-line elements) are stale and rejected by HamClock. Other HamClock functions still work normally, however sometime in June, all activity will cease if the server account lapses.
- **Open HamClock Backend (OHB):** Main page—<https://ohb.works/>. An open-source project with a public backend server at **ohb.hamclock.app:80**, hosted in a UK datacenter. It is developed by a group of hams (including Brian KO4AQF) and emphasizes independent data sources from NOAA, PSK Reporter, etc. Unlike the other backend servers, the OHB backend server is fully open for self-hosting on your own network in addition to being available at their backend server. Your local backend server can run on hardware as light as a Raspberry Pi 3B+ and has seen steady releases. It is also stable and recommended by several ham communities and hardware vendors like Inovato. The OHB project has also updated the HamClock client software from the last version (4.22) available from WBOOEW and is currently providing version 4.25. HamClock users can automatically update to these versions provided they are pointed to the OHB backend server.
- **HamClock.com** (domain name has no connection to the original HamClock): Main page — [Hamclock.com](https://hamclock.com) (operated by Bruce Edrich, W4BAE): A community-operated, production-hardened server running on AWS. It started as a fork of the open-source OHB project and has been extended with improvements like better VOACAP interpolation, real-time PSK Reporter handling, weather maps, and more. It is actively serving thousands of HamClocks with all major data feeds (solar, K<sub>p</sub>, propagation, PSK spots, etc.) running independently of the original *clearskyinstitute.com*. As of late May, its data feeds are live and stable. Interestingly enough, Hamclock.com is capable of updating your HamClock to the latest version of OHB's client release (Hamclock.com doesn't currently update client software, only their backend server). I have currently updated my client software while pointed to Hamclock.com to version 4.25 and HamClock.com is supporting the latest features such as real-time lightning strikes.



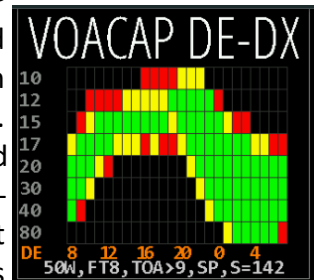
# June Hamclock Update (continued)

**Status of OHB.works and HamClock.com Development:** Right now, both of these backend servers are in excellent shape and available for use today. You can switch back and forth between them, with some cautions: If you switch between them, you should delete the \*.txt and \*.bmp files in the ~/.hamclock hidden folder. Sometimes these two programs complain at a txt or bmp file that the other program wrote into the same folder. Also, Hamclock.com won't detect and update your HamClock client software, until you update it in OHB first. After that, Hamclock.com allows the software to be updated. I'm not entirely sure what's going on there, I think OHB put some code in its version 4.23 and higher that points the software updates to OHB whether or not you're using OHB or HamClock as your backend server. That's some under the hood stuff beyond my knowledge at the moment.

The current version of HamClock client software (i.e. software you run on your Raspberry Pi to access the backend servers) is up to 4.25, with 4.26 in beta already. Go to [OHB.works](#) and look at their [release history](#) to see what is in each version. Interestingly enough, the latest version available from OHB.works (version 4.25) will also work on not only *ohb.hamclock.app:80* and *hamclock.com:80* but also the original *clearskyinstitute.com:80* default HamClock backend server.

**ESP8266 Hardware Support:** Last month, I reported success updating my ESP8266 Huzzah hardware-based HamClock to point to either *ohb.hamclock.app:80* or *hamclock.com:80*. I did this by changing one line of code. This was done using the Arduino IDE. Specific instructions were provided on clearskyinstitute.com for compiling and loading this software into the ESP8266 Huzzah Feather. I have saved this information off from when I built the Hamclock and the directions were still accurate. Both OHB and Hamclock.com backend servers support most of the features available to Hamclock Client Software version 3.10, which is the last version of HamClock that supports the ESP8266 due to its limited memory space.

There were a couple of hiccups, however. I attempted to generate a VOACAP REL map by clicking on the left side of the VOACAP DE-DX pane for the desired band. This caused an error message, "Bad Header". I informed both *ohb.hamclock.app* and *hamclock.com* developers that this was happening. The error message is because current HamClock clients support compressed bitmaps; that is how they are sent now. However, there are no decompression algorithms in the ESP8266 Huzzah hardware-based HamClock, there's not enough memory. If the *ohb.hamclock.app* or *hamclock.com* backend servers detect an ESP3266 Huzzah running version 3.10, they are supposed to send uncompressed bmp maps.



In late breaking news, the *ohb.hamclock.com* team implemented a test server for me to connect to my ESP8266 Huzzah. They had already implemented a fix to send uncompressed bmp files and wanted my input to test it out. When I connected to this test server, it properly served up all map types requested, including the problematic VOACAP REL map. I expect their patch to have been implemented in their main server by the time you read this. I've reached out to the hamclock.com team a couple of times. I'm still waiting to hear back from the *hamclock.com* team on their fixes, but I'm ready to help them out too once their fixes are ready for test.

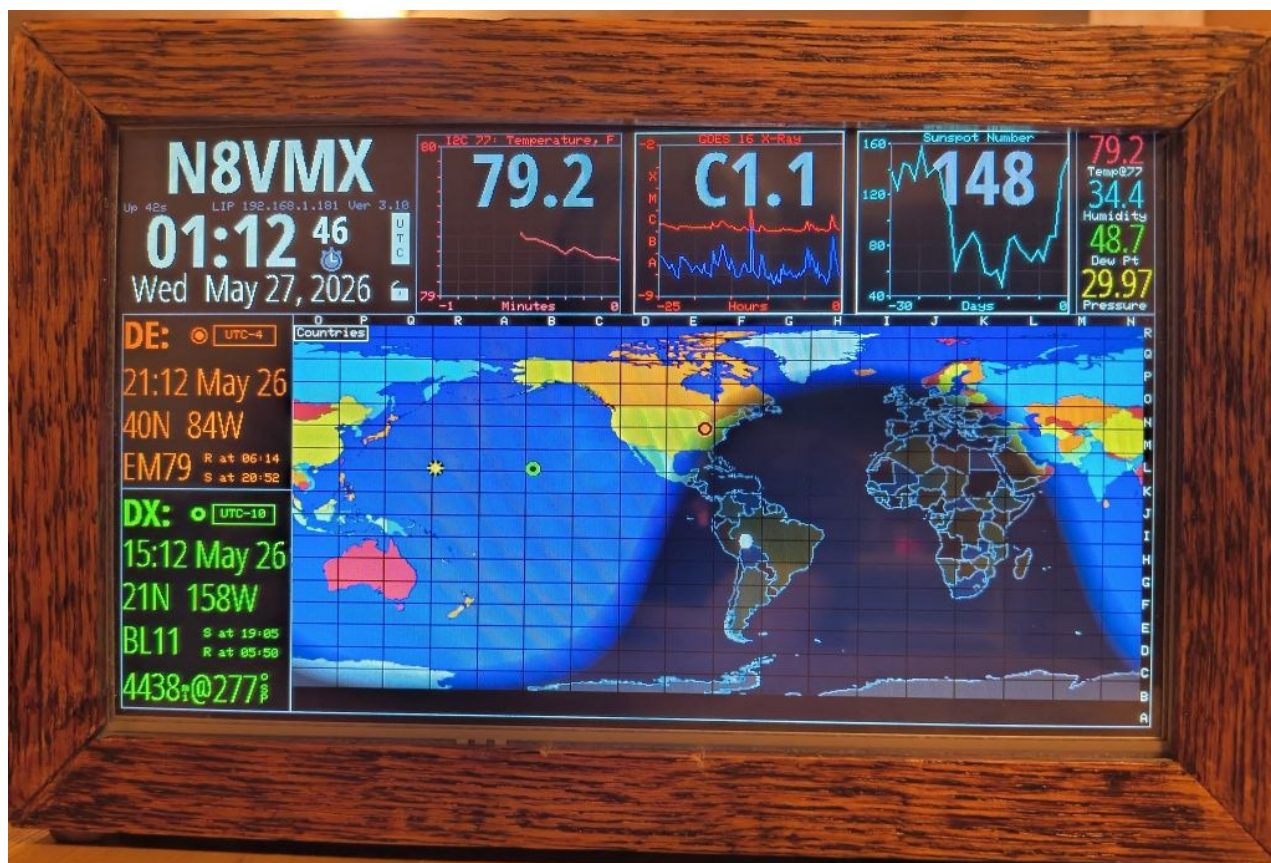


The other hiccup was that while *ohb.hamclock.com* properly detected the ESP8266 running version 3.10 and prevented it from trying to upgrade to version 4.25, the *hamclock.com* backend server offered to upgrade to version 4.25. This is an error, the ESP8266 HamClock should remain frozen at version 3.10 because it lacks the memory to support anything higher than version 3.10.

In summary, the backend server development is moving along nicely and no one should have any trouble connecting to a replacement backend server if/when Elwood's *clearskyinstitute.com* goes silent this month. Even my vintage ESP8266 Huzzah HamClock will be usable in the future. All off you Raspberry Pi, Innovato users should be able to keep your hardware running for years into the future too. Everything looks a lot more promising than it did on January 27th when we heard of Elwood Downey, WBOEW's passing and were wondering the fate of the HamClock that so many hams have used since it came about in 2018.

I wrote a companion article ([page 25](#)) , *Setting up your Raspberry Pi HamClock* to guide all Raspberry Pi-based HamClock users how to modify their setup to use these new servers — including how to set up HamClock to automatically run on boot up should you choose to. *I suggest you not put this off any longer, your time is almost up.* If you run into trouble, reach out to me and we can sort out how to get you set up.

### 73, Ray [N8VMX](#)



ESP8266 Huzzah Feather-based HamClock



# Setting Up Your Raspberry Pi HamClock

Ray Hitt, [N8VMX](#)

It's crunch time to get your HamClock updated to point to the two new backend servers that will function after the original backend server ceases sometime this month. This is the perfect time to jump on the bandwagon and get your HamClock built up.

There are several resolutions and types of hamclock you may have compiled. You will have one or more of these on your computer.

<b><i>hamclock-800x480</i></b>	X11 GUI desktop version, AKA <b><i>hamclock</i></b>
<b><i>hamclock-1600x960</i></b>	X11 GUI desktop version, larger, AKA <b><i>hamclock-big</i></b>
<b><i>hamclock-2400x1440</i></b>	X11 GUI desktop version, larger yet
<b><i>hamclock-3200x1920</i></b>	X11 GUI desktop version, huge
<b><i>hamclock-web-800x480</i></b>	web server only (no local display)
<b><i>hamclock-web-1600x960</i></b>	web server only (no local display), larger
<b><i>hamclock-web-2400x1440</i></b>	web server only (no local display), larger yet
<b><i>hamclock-web-3200x1920</i></b>	web server only (no local display), huge

To refresh your memory, here are the backend servers available as of right now and how to connect to them — Clearskyinstitute.com, Open HamClock Backend (OHB), HamClock.com

In the commands below, substitute ***hamclock*** with the actual filename(s) from the table above that is on your computer:

**Clearskyinstitute:** Command line: ***hamclock -b clearskyinstitute.com:80***

Note: If you just type ***hamclock*** it will use clearskyinstitute.com, the default backend server

**Open HamClock Backend (OHB):** Command line: ***hamclock -b ohb.hamclock.app:80***

**HamClock.com:** Command line: ***hamclock -b hamclock.com:80***

To be able to run these commands on your Raspberry Pi, if you have a keyboard, mouse and monitor connected to it, you can log into it straightaway and start making the changes. If you have a "headless" Raspberry Pi running HamClock without a keyboard, monitor and mouse, you can log into it from your desktop/laptop using the *ssh* command to pop up an editing window on your computer.

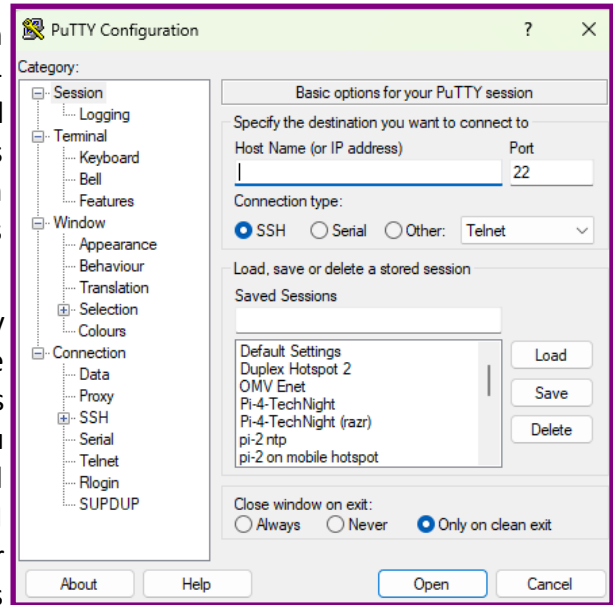
**SSH** stands for **Secure Shell**, where a shell is the command line window that allows you to input commands into the Linux (Raspberry Pi) computer. Whether or not you need *ssh* or are typing on the Raspberry Pi itself, the commands you enter would be the same once you're logged in.



# Setting Up Your Raspberry Pi HamClock (continued)

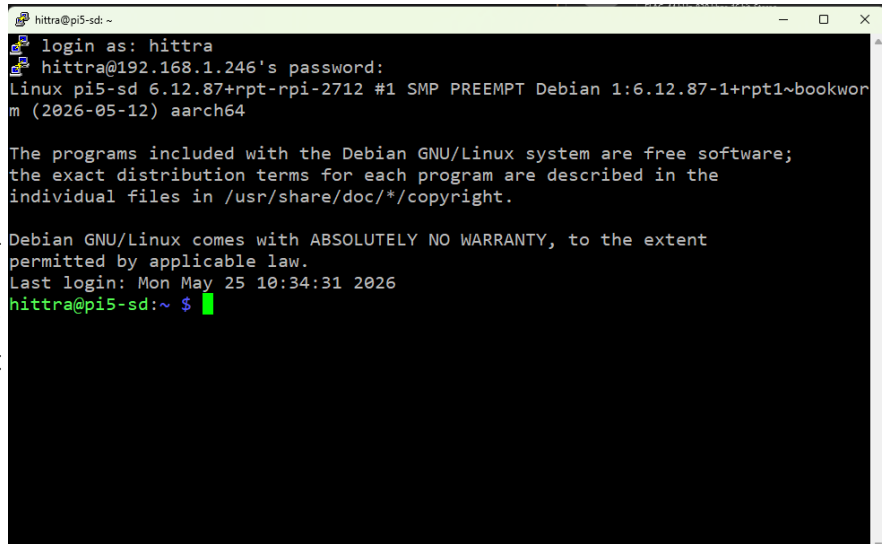
**SSH Access from Windows PC:** SSH doesn't come with Windows 11, you'll need to download and install PuTTY, a terminal emulator that supports serial, telnet, and ssh text-based connections to other computers. It's free, and available at [putty.org](http://putty.org). Install it and then run PuTTY, you'll get a window looking something like this (right):

This is a configuration page. You select SSH (already done), the default port of 22 unless you need to change it, and enter the IP address of your Raspberry Pi that is running HamClock. Once you input the IP address, you can type a useful name in the *Saved Sessions* box, and hit *Save* to save this information for later. You can see I have several Raspberry Pi IP addresses saved there for quick recall (it's embarrassing how many Raspberry Pi's I am actively using right now). Hit *open* when you're ready to log in and start editing in your Raspberry Pi command line window. I entered this example with my username and password. If you never changed it, the default you can try is:

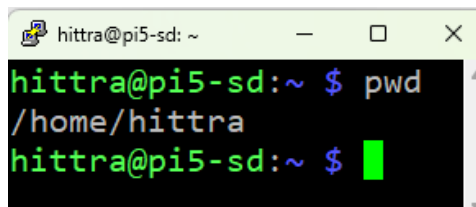


```
login as: pi
Password: raspberry
```

After 2022, the default user and password is required to be changed either at first boot or in the Raspberry Pi Imager when you created the SD Card, so you'll have to enter the passwords you set up at that time.



Once, you're logged in, you need to locate your hamclock file (or files) on the Raspberry Pi. Chances are, they are located either in the `/usr/local/bin` folder or your home directory (`~`). The `~` symbol is a shortcut to your home directory. The full name can be found by typing `pwd` (path-of-working-directory). In my case, it is `/home/hittra`:



(Continued on next page)

[Back to Table of Contents](#)

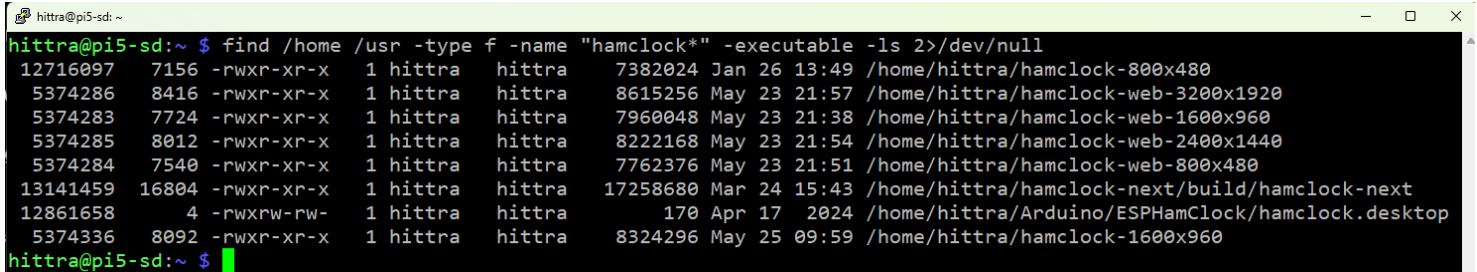


# Setting Up Your Raspberry Pi HamClock (continued)

I'm not a very good Linux programmer, so I asked Grok for some help. I asked Grok if there is a command to find all executable files containing "**hamclock\***" under the two folders **/usr** and **/home**. Grok came up with this:

```
find /home /usr -type f -name "hamclock*" -executable -ls 2>/dev/null
```

It may appear as gibberish, but when you type it in, you'll get something like this:



```
hittra@pi5-sd: ~ $ find /home /usr -type f -name "hamclock*" -executable -ls 2>/dev/null
12716097 7156 -rwxr-xr-x 1 hittra hittra 7382024 Jan 26 13:49 /home/hittra/hamclock-800x480
5374286 8416 -rwxr-xr-x 1 hittra hittra 8615256 May 23 21:57 /home/hittra/hamclock-web-3200x1920
5374283 7724 -rwxr-xr-x 1 hittra hittra 7960048 May 23 21:38 /home/hittra/hamclock-web-1600x960
5374285 8012 -rwxr-xr-x 1 hittra hittra 8222168 May 23 21:54 /home/hittra/hamclock-web-2400x1440
5374284 7540 -rwxr-xr-x 1 hittra hittra 7762376 May 23 21:51 /home/hittra/hamclock-web-800x480
13141459 16804 -rwxr-xr-x 1 hittra hittra 17258680 Mar 24 15:43 /home/hittra/hamclock-next/build/hamclock-next
12861658 4 -rwxr-w-rw- 1 hittra hittra 170 Apr 17 2024 /home/hittra/Arduino/ESPHamClock/hamclock.desktop
5374336 8092 -rwxr-xr-x 1 hittra hittra 8324296 May 25 09:59 /home/hittra/hamclock-1600x960
hittra@pi5-sd: ~ $
```

There are a lot of files here, that's because I am testing HamClocks at several different screen resolutions and both web page and desktop versions. There are a total of eight different HamClock executables (6 of which I can run) if you compile every available type in the table earlier in this article. Most users don't do that. There are also two hamclock files in this directory listing that are related to other hamclock applications that aren't applicable and can be ignored.

So, there are six files, **hamclock-800x1600**, **hamclock-1600x960** (desktop versions); **hamclock-web-800 x480**, **hamclock-web-1600x960**, **hamclock-web-2400x1440**, **hamclock-web-3200x1920** (all web-page only versions). All these six files are in my home directory of **/home/hittra**.

In your case, you may have a single file named "**hamclock**", or maybe two files, "**hamclock**" and "**hamclock-big**". These are aliases for **hamclock-800x480** and **hamclock-1600x960** respectively. I prefer to be specific in my filenames regarding what the expected resolution is.

If you are using your Raspberry Pi for other things, you might not want hamclock to automatically run. That's fine. If you want to run HamClock pointed to the **OHB backend server**, you would type as an example:

```
/home/hittra/hamclock-web-1600x960 -b ohb.hamclock.app:80
```

If you want use the **hamclock.com backend server** instead, type the following as example:

```
/home/hittra/hamclock-web-1600x960 -b hamclock.com:80
```

Change the filename(s) and **-b** backend server as needed to match your scenario. If you only want to run HamClock from the command line, that's all you need to do, you're done!



# Setting Up Your Raspberry Pi HamClock (continued)

**Run HamClock Automatically On Startup:** You may want HamClock to start up as soon as you boot up the Raspberry Pi. One good example would be if you are running the Raspberry Pi without a keyboard, monitor or mouse. If you start up a web version of HamClock (for example, **hamclock-web-1600x960 -b ohb.hamclock.app:80**) you could have it invisibly running waiting for you to display it on your TV's or other computer's web browsers. There are two good ways to set HamClock up to do that, *setting up a service*, or a *cron job*.

This example is for a Web Server based HamClock without a display. At the end of this article I have an appendix that will show versions for X11 GUI version of a HamClock *service* or *cron job*.

**Setting up a HamClock Service:** HamClock can be installed as a *systemd service* (a service that runs as a daemon in the background). It requires making (or modifying) a **hamclock.service** file in the **/etc/systemd/system** folder. This file will contain all the instructions required to start up hamclock and any commands that need to run along with it (if any).

Here are the step by step instructions for setting up a **hamclock.service** file:

1. Run this command to create or edit the **hamclock.service** file:

```
sudo nano /etc/systemd/system/hamclock.service
```

2. Paste or type the following into the nano editor:

```
[Unit]
Description=HamClock web Server (Screenless)
After=network-online.target # hold off starting until Internet up
wants=network-online.target # hold off starting until Internet up
Requires=network-online.target # hold off starting until Internet up

[Service]
Type=simple
User=hittra
WorkingDirectory=/home/hittra

ExecStartPre=/bin/sleep 10
ExecStart=/home/hittra/hamclock-web-2400x1440 -b ohb.hamclock.app:80

Restart=always
RestartSec=5
Nice=10

# Optional resource limits
CPUQuota=30%

[Install]
WantedBy=multi-user.target
```

3. Apply the Changes:

```
sudo systemctl daemon-reload
sudo systemctl restart hamclock.service
sudo systemctl enable hamclock.service
```



# Setting Up Your Raspberry Pi HamClock (continued)

## 4. Check Status:

```
systemctl status hamclock
journalctl -u hamclock -f
```

This should enable a Hamclock web server on your Raspberry Pi. You can view the HamClock through your Internet browser by typing **192.168.1.76:8081/live.html** as the web page (replace this IP address with your HamClock's IP address). If your Raspberry Pi has a keyboard, monitor, mouse and graphical environment you can also view Hamclock locally by typing **127.0.0.1:8081/live.html** (Recommend Pi-4 or 5 only and 4-8 GB RAM for the graphical mode)

The benefit of the system method is that it intelligently starts up HamClock and automatically restarts it if it crashes. The downside is that the only way to stop HamClock is to stop and/or disable the hamclock.service. This is done with the following commands:

```
# stop HamClock until system restarts
systemctl stop hamclock.service
#
# prevent HamClock from starting until you enable it
systemctl disable hamclock.service
```

**Cron Job:** This refers to the *cron* daemon that runs scheduled tasks at specified times. There is an editor called **crontab** that is used specifically to edit cron jobs. To edit your cron jobs, type **crontab -e**

If *crontab* has never been run before, you will be asked a one-time question, which editor to use. Choose **nano**, it's the easiest to use.

Once you're editing your crontab file, add a line at the end of the file that reads as follows (this is a single line that is very long and had to word wrap to fit on the screen. It won't word wrap in crontab):

```
@reboot sleep 15 && /bin/sh -c 'until ping -c1 ohb.hamclock.app >/dev/null 2>&1;
do sleep 5; done' && /home/hittra/hamclock-web-2400x1440 -b ohb.hamclock.app:80 &
```

This is complicated because Grok volunteered some additional features that are nice. It sleeps 15 seconds before starting to allow the system to boot up fully. It then enters a loop and keeps pinging the ohb.hamclock.app backend server until it gets a response. Only then does it start HamClock. Replace the path and filename to match your HamClock location.

If you want to test both of these methods at the same time, you can if you're careful. Don't use them both at the same time! I favor crontab over the hamclock.service for a couple of reasons, 1) it's shorter (one line) and, 2) you can exit out of HamClock if you need to and it won't restart until the Pi is rebooted. To disable a line in the crontab entry, just put a # in front of the entry, that will turn it into a comment that will not run. Then you can try hamclock.service. To reenabale Crontab, go in and remove the #. You also need to disable hamclock.service before trying the crontab method.

Good luck! Please let me know if you run into issues, I can try to help resolve them.

73, Ray [N8VMX](#)



(Continued on next page)

[Back to Table of Contents](#)

# Setting Up Your Raspberry Pi HamClock (Appendix)

These *hamclock.service* and *crontab* entries replace the entries used earlier in the article if you desire to operate HamClock on the Raspberry Pi's own graphical environment instead of the web only version used on headless Raspberry Pis. Note that these GUI versions also provide web support for up to 10 computers simultaneously at the same resolution.

## hamclock.service for a full GUI environment with Keyboard, video, mouse

```
[Unit]
Description=HamClock kiosk (GUI Display)
After=graphical.target
wants=graphical.target

[Service]
Type=simple
User=Hittra
Environment=DISPLAY=:0
workingDirectory=/home/hittra

ExecStartPre=/bin/sleep 20
ExecStart=/home/hittra/hamclock-1600x960 -b ohb.hamclock.app:80

Restart=always
RestartSec=5
Nice=10

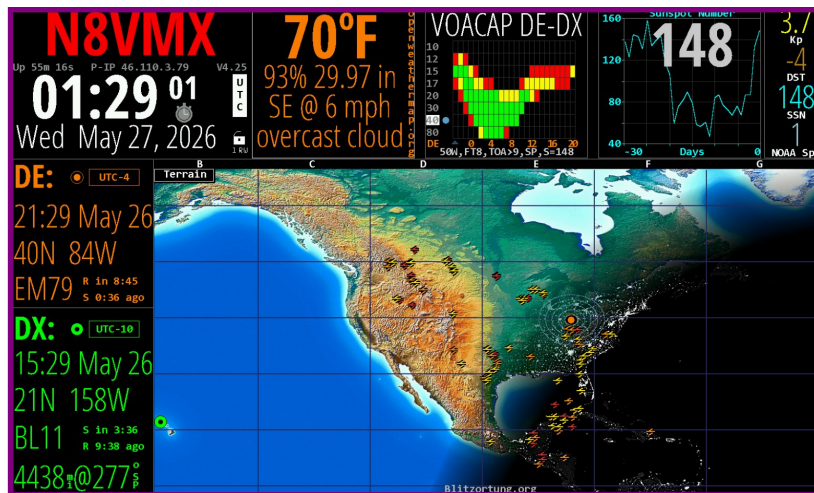
# Optional resource limits
CPUQuota=25%

[Install]
wantedBy=graphical.target
```

## Crontab Entry for HamClock Kiosk Mode (Full GUI Environment with keyboard, video, mouse)

```
@reboot sleep 20 && /bin/sh -c 'until ping -c1 ohb.hamclock.app >/dev/null 2>&1; do sleep 5; done' && DISPLAY=:0 /home/hittra/hamclock-1600x960 -b ohb.hamclock.app:80 &
```

Note: this command is entered as one line. It shows up as word-wrapped here, it won't word wrap in crontab.



# Special Event Stations for June

Paul Sharp, [WS8R](#)

Here are a 2 links you can follow to find many SES that suit your varied interest. I may repeat and update some of these links as there are only a few sites focused on SES.

[http://www.arrl.org/special\\_events/search/page:2/model:Event](http://www.arrl.org/special_events/search/page:2/model:Event).

[https://www.qsl.net/va3rj/spevents\\_dx.html](https://www.qsl.net/va3rj/spevents_dx.html). This link list a lot of SES in Europe and Russia.

Here is my pick of the litter of SES that I think will be of interest to my fellow BARC members. We hit the jackpot this month with lots of interesting and varied SES. There are SES commemorating: Pride Month, ships and ship museums, DDay, Route 66, Soccer, World Giraffe Day, Field Day and 13 Colonies.

**06/01/2026 | CQ Pride - Celebrating Pride Month.** Jun 1-Jun 15, 0000Z-2359Z, N6B, All over. Pride Radio Group. 7.074. QSL. Bryan Garfoot, 6441 Angling Rd, Portage, MI 49024. Pride Radio Group is proud to announce CQ Pride, an amateur radio event intended to celebrate pride month, support inclusion in amateur radio, and to enjoy some time on the air. CQ Pride is intended to be a relaxed event accessible to operators of all skill levels, qualifications, and equipment. Inspired by events like Meme Appreciation Month and 13 Colonies, CQ Pride will include several special event callsigns for you to log. All four QSL cards (L, G, B, and T) will be themed together for display. More information on our website: <https://prideradio.group/cq-pride>

**06/06/2026 | USS Orleck Amateur Radio Society (OARS) Ships On The Air.** Jun 6-Jun 7, 1300Z-2100Z, WJ4DD, Jacksonville, FL. USS Orleck Amateur Radio Society (OARS). 14.250 14.320 7.190 7.250. QSL. Kenneth Krull, 6143 Winding Bridge Dr, 6143 Winding Bridge Dr, Jacksonville, FL 32277. Will be operating each day from 1300-2100 UTC.

**06/06/2026 | DDay.** Jun 6, 1400Z-1900Z, W6J, CHRISTIANBURG, VA. New River Valley Amateur Radio Club. 14.262. QSL. Danny Wylam, 710 McDaniel Drive Southeast, CHRISTIANBURG, VA 24073-3848. [dannywylam@gmail.com](mailto:dannywylam@gmail.com)

**06/06/2026 | Historic Ship USS NAUTILUS SSN 571.** Jun 6-Jun 7, 0000Z-2359Z, N1S, Groton, CT. Generations Amateur Radio Club. 3.950 7.250 14.270 21.075. QSL. N1S, Generations ARC, 110 Vinegar Hill Road, Gales Ferry, CT 06335.

**06/06/2026 | Lewis and Clark Trail on the Air.** Jun 6-Jun 21, 0000Z-2359Z, W7AIA, Various Cities and States. Clark County Amateur Radio Club. 14.240. Certificate & QSL. Clark County Amateur Radio Club, PO Box 1424, Vancouver, WA 98661. <https://www.lctota.org>

**06/06/2026 | Museum Ships Week-end.** Jun 6-Jun 7, 1700Z-2359Z, NI6IW, San Diego, CA. USS Midway Museum Ship CV-41 COMEDTRA NI6IW. 7.250 14.320 14.070 DStar on PAPA System Repeaters. QSL. USS Midway CV-41 Museum Ship COMEDTRA NI6IW, 910 N Harbor Drive, San Diego, CA 92101. All Museum Ships to operate through the week-end, see [www.qrz.com/db/ni6iw](http://www.qrz.com/db/ni6iw) for QSL information also.



## Special Event Stations for June (continued)

**06/06/2026 | Museum Ships Weekend - NS Savannah.** Jun 6-Jun 7, 1400Z-2200Z, K3SAV, Baltimore, MD. Nuclear Ship Savannah ARC. 7000. QSL. Ullis Fleming, 980 Patuxent Road, Odenton, MD 21113. [qrz.com/db/K3SAV](http://qrz.com/db/K3SAV)

**06/06/2026 | National Museum of the Great Lakes Museum Ships Weekend .** Jun 6-Jun 7, 1400Z-1830Z, K8E, Toledo, OH. Toledo Mobile Radio Association. 7.039 7.260 14.239 14.260. QSL. TMRA James M. Schoonmaker , PO Box 9673, Toledo, OH 43697. [www.qrz.com/db/k8e](http://www.qrz.com/db/k8e) or [www.w8hhf.org](http://www.w8hhf.org)

**06/06/2026 | NB9QV USS Cobia Museum Ships Weekend.** Jun 6-Jun 7, 1400Z-2000Z, NB9QV, Manitowoc, WI. USS Cobia Amateur Radio Club. 7.240 14.240. Certificate. KC9YL, kc9yl@arrl.net, n/a. <https://www.qrz.com/db/NB9QV>

**06/06/2026 | NO5RA Route 66 Event in Vinita OK 100-year anniversary.** Jun 6-Jun 7, 0000Z-0400Z, K5O, Vinita, OK. NO5RA. 14.266 7.266. Certificate. info@no5ra.org, PO Box 153, Vinita, OK 74301. Using any band we can reach out. Starting on 20 and 40 Comments can be directed to info@no5ra.org Certificates can be obtained from the web site once contact is confirmed. Main event will be by the fire station. <https://www.facebook.com/VinitaRt66CentennialCelebration/> <https://no5ra.org>

**06/06/2026 | USS TN Battleship Museum.** Jun 6-Jun 7, 0001Z-2359Z, W4BSF, Oneida, TN. Big South Fork Amateur Radio Club . 3.900 7.200 14.750 28.400. QSL. Buddy McCartt - W7BSF, 275 Hunter Hill Rd., Oneida, TN 37841-3578. <https://bsfarc.org>

**06/06/2026 | USS Wisconsin Museum Ship on the Air,** Battleship USS Wisconsin BB-64 will be on the air each day until 2130 UTC. Jun 6-Jun 7, 1400Z-2130Z, N4WIS, Norfolk, VA. USS Wisconsin Radio Club. 14.264 7.064, 7.264 21.064, 21.364 28.364. QSL. Nauticus c/o USS Wisconsin Radio Club N4WIS, One Waterside Drive, Norfolk, VA 23510. <https://n4wis.com>

**06/07/2026 | PIMA AIR & SPACE MUSEUM 50th ANNIVERSARY.** Jun 7, 1700Z-2100Z, WE7GV, Sahuarita, AZ. Green Valley Amateur Radio Club. 14.242 14.246 14.248. Certificate & QSL. Tom Lang K7VOA, 1085 W EL TORO RD, 1085 W EL T 06/12/2026 |

**Jun 12-Jul 19, World Soccer Tournament.** 0000Z-2300Z, WM3PEN, Philadelphia, PA. Holmesburg Amateur Radio Club. 14.276 7.276. QSL. Bob Josuweit, 3341 Sheffield Ave, Philadelphia, PA 19136. <https://www.qrz.com/db/WM3PEN>

**06/13/2026 | Honoring Emigrants on the Oregon Trail at Fort Laramie, WY.** Jun 13-Jun 14, 1400Z-2200Z, K7WY, Fort Laramie, WY. Oregon Trail Radio Pioneers . 28.525 21.290 14.235 52.0. Certificate & QSL. Lee Milner, 123 Arrowhead Road, Torrington, WY 82240. [K7WY.Lee@gmail.com](mailto:K7WY.Lee@gmail.com)

**06/20/2026 | 20th Anniversary of the Museum Ship Icebreaker Mackinaw.** Jun 20, 1400Z-2359Z, W8AGB, Mackinaw City, MI. CCECPSCO. 14.250. QSL. W8AGB, P. O. Box 844, Harbor Springs, MI 49740.



## Special Event Stations for June (continued)

**06/21/2026 | World Giraffe Day.** Jun 21, 1200Z-2200Z, W3G, Trexlertown, PA. East Penn ARC/ Education Alliance for Amateur Radio . 7266. QSL. Walter J Skavinsky, 1574 Layfield Road, Pennsburg, PA 18073-1702. [kb3sbc@arrl.net](mailto:kb3sbc@arrl.net)

**06/24/2026 | Field Day 2026. Jun 24-Jan 1, 0000Z-0000Z, N6R,** Thousand Oaks, CA. Ventura county ars. 14.255. QSL. Peter Heins, N6ZE, 1559 Norwich Ave, Thousand Oaks, CA 91360. Celebrating lives of President Ronald Reagan and Mrs Nancy Reagan [vcars.org](http://vcars.org) .

**07/01/2026 | 13 Colonies Special Event.** Jul 1-Jul 7, 1300Z-0400Z, K2J, Louisburg, NC. 13 Colonies Special Event . 14.250 7.185. QSL. Team K2J QSL Chuck Moss, 1140 Styers Mill Rd, Yadkinville, NC 27055. [k2j1776@gmail.com](mailto:k2j1776@gmail.com)

**07/01/2026 | 13 Colonies.** Jul 1-Jul 8, 1300Z-0400Z, K2D, Trumbull, CT. 13 Colonies. 14.074. QSL. Conrad Trautmann, N2YCH, 971 Daniels Farm Road, Trumbull, CT 06611. <https://www.qrz.com/db/K2D>

**07/01/2026 | 13 Colonies Massachusetts.** Jul 1-Jul 7, 0000Z-2359Z, K2H, Longmeadow, MA. 13 Colonies. 14.270 21.320 28.370 14.045. QSL. Larry Krainson - W1AST, 100 Kenmore Dr, Longmeadow, MA 01106-2759. <https://13colonies.us>



### Answers to Amateur Radio Test Questions on pages 34-36

#### [Technician \(pg. 34\)](#)

T7D07 (C)

T2B06 (A)

T3C01 (C)

T1F07 (B) [97.115(a)(2)]

#### [General \(pg. 35\)](#)

G4B11 (C)

G2C07 (A)

G1C03 (A) [97.303(h)(1)]

G0B13 (A)

#### [Amateur Extra \(pg. 36\)](#)

E2D02 (D)

E6F01 (C)

E4C04 (D)

E6F02 (A)



# Amateur License Test Questions

[Answers are on page 33](#)

## Technician

### **T7D07**

Which of the following measurements are made using a multimeter?

- A. Signal strength and noise
- B. Impedance and reactance
- C. Voltage and resistance
- D. All these choices are correct

### **T2B06**

What type of signaling uses pairs of audio tones?

- A. DTMF
- B. CTCSS
- C. GPRS
- D. D-STAR

### **T3C01**

Why are simplex UHF signals rarely heard beyond their radio horizon?

- A. They are too weak to go very far
- B. FCC regulations prohibit them from going more than 50 miles
- C. UHF signals are usually not propagated by the ionosphere
- D. UHF signals are absorbed by the ionospheric D region

### **T1F07**

Which of the following restrictions apply when a non-licensed person is allowed to speak to a foreign station using a station under the control of a licensed amateur operator?

- A. The person must be a U.S. citizen
- B. The foreign station must be in a country with which the U.S. has a third party agreement
- C. The licensed control operator must do the station identification
- D. All these choices are correct



# Amateur License Test Questions (continued)

[Answers are on page 33](#)

## General

### **G4B11**

Which of the following must be connected to an antenna analyzer when it is being used for SWR measurements?

- A. Receiver
- B. Transmitter
- C. Antenna and feed line
- D. All these choices are correct

### **G2C07**

When sending CW, what does a “C” mean when added to the RST report?

- A. Chirpy or unstable signal
- B. Report was read from an S meter rather than estimated
- C. 100 percent copy
- D. Key clicks

### **G1C03**

What is the maximum bandwidth permitted by FCC rules for amateur radio stations transmitting on USB frequencies in the 60-meter band?

- A. 2.8 kHz
- B. 5.6 kHz
- C. 1.8 kHz
- D. 3 kHz

### **G0B13**

Where should lightning arrestors be located?

- A. Where the feed lines enter the building
- B. On the antenna, opposite the feed point
- C. In series with each ground lead
- D. At the closest power pole ground electrode



# Amateur License Test Questions (continued)

[Answers are on page 33](#)

## Amateur Extra

### E2D02

What information replaces signal-to-noise ratio when using the FT8 or FT4 modes in a VHF contest?

- A. RST report
- B. State abbreviation
- C. Serial number
- D. Grid square

### E6F01

What absorbs the energy from light falling on a photovoltaic cell?

- A. Protons
- B. Photons
- C. Electrons
- D. Holes

### E4C04

What is the noise figure of a receiver?

- A. The ratio of atmospheric noise to phase noise
- B. The ratio of the noise bandwidth in hertz to the theoretical bandwidth of a resistive network
- C. The ratio in dB of the noise generated in the receiver to atmospheric noise
- D. The ratio in dB of the noise generated by the receiver to the theoretical minimum noise

### E6F02

What happens to photoconductive material when light shines on it?

- A. Resistance decreases
- B. Resistance increases
- C. Reflectivity increases
- D. Reflectivity decreases



# Editorial Policy and Style Guidelines for *Full Quieting*

## Editorial Policy

*Full Quieting* welcomes articles from BARC members on any ham radio subject that is relevant to BARC. Our focus is our BARC members. We will not reprint items or articles that are easily available by other means (web, magazines, etc.).

Most articles will be “how to” or “what I did” articles that focus on technical or operational subjects such as a construction (antennas, equipment, stations, etc.), the use of hardware or software, operating in unique/challenging circumstances, or a memoir.

*Full Quieting* will also consider an occasional article on policy issues regarding the various national licensing/regulatory agencies and/or amateur radio associations so long as the article is relevant to BARC members and constructive in tone and recommendations.

Although all *Full Quieting* articles represent the experiences and points-of-view of their authors and not BARC, articles that focus on policy issues will be specifically labeled as a reflection of the author’s opinion.

Regardless of subject, when you submit an article you acknowledge that you are the original author or creator and you grant publication rights to BARC. Anything you submit remains your property and you may have it published elsewhere without the need for permission from *Full Quieting*.

## Style Guidelines

Language: English is the official language of *Full Quieting* and all articles should be submitted in English. Don’t be concerned if English is not your first language: just tell your story in your own voice and use translating tools such as Google Translate to help if necessary.

File format: Submit your article as a Word, Word Perfect, OpenOffice or text file attachment to an email. A shared document available for download (such as a Google Doc) is also okay. **Do not submit as an email or PDF file.**

Pictures and other graphics: Do not embed pictures or tables in the article. Please submit as an email attachment or a shared image available for download. Please reduce the file size of the images before you send them to *Full Quieting*. Large files can be attached to a series of emails. Keep file size in mind regarding publication quality: for example, a half page image in the final PDF version of *Full Quieting* should be at least 400 pixels wide. If a photograph or graphic was taken or created by someone else, you should have their permission to use it and the permission of anyone identifiable in the image. **If you capture images from the web, provide a citation (URL) for that source and make sure the source does not prohibit use of the image in *Full Quieting*.**

(Continued on next page)



# Editorial Policy and Style Guidelines for *Full Quieting*

(Continued from previous page)

## Use these style conventions

- We are hams, not Hams, and our hobby is ham radio This is a change to our original format
- The name of our organization is: Bellbrook Amateur Radio Club or BARC
- The code we use is Morse (capitalize the M)
- We use Yagi antennas (capitalize the Y)
- Q codes should be capitalized: QRM, QSB QSY
- The plural of QSO is QSOs, not QSO's
- Modes should be capitalized: CW, SSB, FT8, RTTY
- Bands are written as 10 m, 15 m etc.
- The abbreviation for a Silent Key is SK.
- You might have had an Elmer, not an elmer

Bruce N7RR has provided a [two-page check list](#) of common International System of Units (SI) formats and abbreviations.

## Use these formatting conventions:

- Set all borders to 1 inch. The preferred font is Calibri, 12 point.
- Do not use tabs or spaces at the beginning of a paragraph
- Use only a single paragraph or carriage return at the end of each paragraph
- To enhance readability, use two spaces after the period at the end of a sentence.



# Miscellaneous BARC Info

## REGULARLY SCHEDULED NETS

**Daily (Sunday through Saturday) 1030, 1615 and 1845 Ohio Single Sideband Net (OSSBN)** Primary: 3972.5 KHz LSB Alternates: 3968 & 7272 KHz LSB

**Weekdays (Mon-Fri) 1130 DMR Net** Brandmeister Talk group 310557. Accessible via hotspot, 147.390 (+) CC13 TS2(Dayton East), 444.4375 (+) CC11 TS2 (Dayton West)

**Sundays 1900 Newcomers & Elmers Net** (Cincinnati) 146.670 (-) (123.0 PL)

**Sundays 2000 BARC Weekly Net 147.045 (+) (118.8 PL) [Alt 443.675 (+) (118.8 PL)]**

**Sundays 2100 Miami Co. Voice & Data Net** (Data Net follows Voice Net) 145.230 (-) (no PL)

**Winlink Tuesdays GCARES Winlink Net** Any time on Tuesdays Eastern Time Send To: W8LRJ, Cc: KE8FMJ W8GCA-10 445.010 (S), W6CDR-10 145.010 (S)

**Tuesdays 1900 Dayton Veterans Admin Amateur Radio Club Net (W8DVA)** 443.850 + 107.2 pl

**Tuesdays 1915 Ohio ARES HF Net** W8SGT Net Control at OEMA HQ Primary: 3902 KHz LSB (+/- QRM) Alternate: 7240 KHz LSB (+/- QRM)

**Tuesdays 1945 Ohio Digital Emergency Net** Primary: 3584.5 KHz USB (1500 WF) Alternate: 7072 KHz USB

**Tuesdays 2000 MoCoARES Weekly Net** 146.640 (-) (123.0 Hz PL) (Except—No Net on last Tuesday of even months (MoCoARES meeting) (Except—On 2nd Tuesday: Voice and Data Net on 444.250 (+) (123.0 PL)

**Tuesdays 2100 GCARES Net** (Voice & Data) 146.910 (-)(no PL) [Alt = 442.725]

**Ohio Winlink Wednesdays OH ARES Winlink Net** Any time on Wednesdays Eastern Time Send To: K8EAF, Cc: W8LRJ, KE8FMJ W8GCA-10 445.010 (S), W6CDR-10 145.010 (S)

**Wednesdays 2000 Ohio District 3 ARES Net** (West Central Ohio Regional Net) Primary: 145.110 (-) ( 67.0 PL) Alternate: 146.820 (-) ( 77.0 PL)

**Wednesdays 2000 Beginners Net** (Dayton Area) 444.875 (+) (94.8 PL)

## ZOOM-Basic Setup & Configuration

Here's a link to the Zoom Video Tutorials: [Zoom how-to video tutorials – Zoom Help Center](#)

Also see: "Join a Meeting" and the "Joining & Configuring Audio & Video" tutorials for new users. Send questions or problems to John, [W8LRJ](#) ASAP but BEFORE the next meeting.

**BARC Fundraising Opportunity — Kroger's Rewards Program** Please use your Kroger Card when shopping at Kroger's and support BARC. If you haven't signed up and need help, bring your Kroger Card to the next BARC meeting, and we'll help you get registered (contact the [BARC Treasurer](#)).

**ARRL Discounted Membership Offer** One of the benefits of club membership is the opportunity to become an ARRL member at a discounted price. BARC is an ARRL affiliated club and receives a commission for new first-time ARRL memberships transacted through the club. BARC passes on this commission (discount) as a club membership benefit to promote ARRL membership. BARC members currently receive a \$15 discount on a NEW first year ARRL membership cost when placed through the Club. Please contact the [BARC Treasurer](#) for details.



## Directions to BARC Clubhouse and Radio Room

St. Pierre Education Center  
3757 Upper Bellbrook Rd  
Bellbrook, OH 45305

[Map Link](#)

Park in front of building, enter in front-right door.

**Conference room:** Take first hallway to the left, conference room is on the right. **Radio Room:** Straight down hallway, left turn into gym. Door on left.

