

# THE eQRM

JANUARY 2025



## The BVARA in Beaver County Pennsylvania

Beaver Valley Amateur Radio Association

W3SGJ



2M Repeater

145.310

PL 131.8



**On the Cover:** It's winter here in Western Pennsylvania. I am hoping in about ninety days it will be more like Spring Time...

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### Check into our nets

**Wednesday 2 Meter**

**8:30PM on 145.310 MHz PL 131.8**

**Wednesday 10 Meter**

**9:00PM on 28.470 MHz**



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# Who We Are

## 2024 BVARA OFFICERS

President: Jack Spencer, KZ3Z

Vice President: Dan Grazulis, KB3VSP

2nd Vice Pres.: Doug Lawrence, K3GTX

Treasurer: Pam Spencer, W3PMS

Secretary: Tom Stoops N3XC

Director: Tony Pavilonis, K3AHP

Director: Jim Allen, KC3IXE

Trustee: Doug Hanna, N4YKQ



## MONTHLY MEETINGS

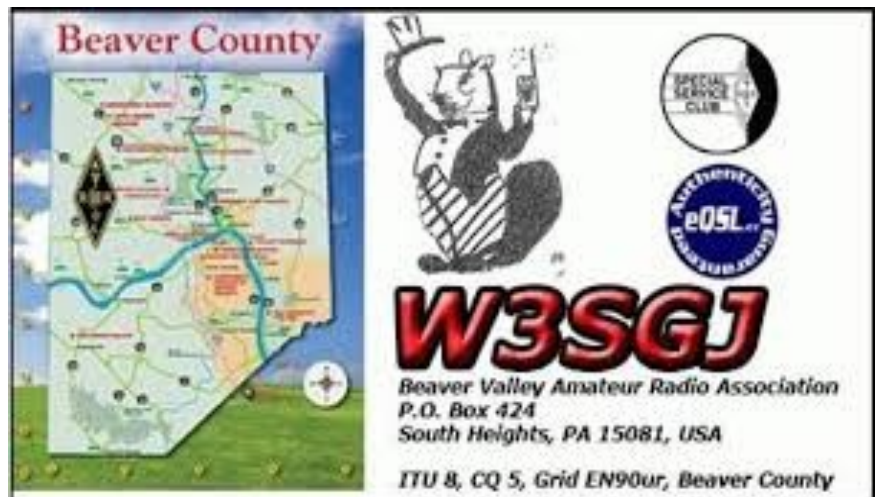
E-Board meetings are now held the Saturday before the monthly club meeting.

VE testing begins at 5:00 PM.

Regular meetings are at 6:30 PM

All meetings are held at the Beaver County Emergency Services Center (A.K.A. The 911 Center )  
351 14th Street  
Ambridge, PA 15003  
on the second Thursday of every month (unless otherwise stated).

- 2025
- Jan 09
- Feb 13
- Mar 13
- Apr 10
- May 08
- Jun 12
- Jul 10
- Aug Corn Roast
- Sep 11
- Oct 09
- Nov 13
- Dec Christmas Party



# This Month

## *This Month:*

### *Speaker:*

Rich – K3SOM

### *Topic:*

The NanoVNA – Part 1

### *Including:*

Continuing with our BVARA presentations this year, we kick off the New Year with an initial presentation on NanoVNA devices. These devices are significantly more affordable than the antenna analyzers that we looked at early last year. With a much wider frequency range and more precise calibration procedures, significant accuracy over the chosen frequency range can easily be obtained. Topics for our January meeting will include:

- Overview of what's inside and a look at the market availability and prices
- SWR measurements, the plus and minus side
- Coax length and impedance measurements
- Free software and connection to a NanoVNA

If you already own a NanoVNA, you are encouraged to bring it with you and compare your results with others. We'll try to answer your questions and learn together!

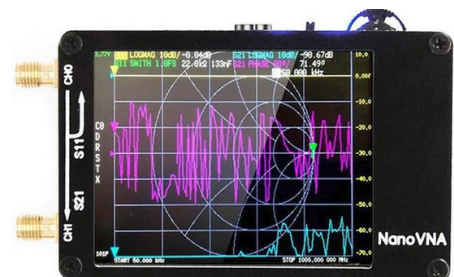
As we move forward in February, we'll continue with more hands-on topics that will build onto our initial session to include:

- What you can easily do with one set of measured data
- Bandpass filter measurements
- Common mode currents and how to measure how different toroids behave
- Keeping RF current where you want it to go

As we gain familiarity with the NanoVNA, other possibilities may emerge that may suggest additional exploration.

### *Rich's Background:*

Extra Class Ham, Licensed since 1962,  
VE,  
B.S. Electrical Engineering



# More this Month

## Weekly

Thursday Morning Breakfast  
(or you can have lunch)

**Come join us!**



## BREAKFAST

The BVARA meets every Thursday at the Freedom Square Diner in Center Township, just to the right of the Cinemark Center Township Marketplace at 09:30 AM. All radio amateurs and those interested in amateur radio are encouraged to come join us at our Thursday morning breakfast.



## See you

**RACES / ARES**  
The eQRM Urges All County Hams to Participate.



The Freedom Square Diner in Monaca has a great wait staff. Come let them take your order.

The eQRM urges all Beaver County licensed amateurs to participate in the County's RACES and ARES programs.

Any Beaver County Amateur that is interested in participating in the RACES/ARES programs can do so by checking into the Beaver County Public Service Net which meets every Monday evening at 8:30 PM local time on the WW3AAA 146.850 MHz repeater (131.8 PL)

# A Fun Surprise !

## Our Thursday Morning Breakfasts – A Surprise

On Thursday mornings, BVARA members have gotten together to enjoy breakfast, talk about our favorite topics within our mutual hobby, or a myriad of other topics about our activities and our community. With an opportunity to get to know each other a little better, we especially encourage newcomers to the hobby to join us in our many conversations. It's fun!

We meet every Thursday at the Freedom Square Diner in Center Township, just to the right of the Cinemark Center Township Marketplace in Monaca at about 09:30 AM. We've learned that weekends can be very busy for people who only have the weekends for family activities and home maintenance projects. Still, we have an enjoyable time no matter what the weather or who is able to join us.

Below is a photo taken at our December 19<sup>th</sup> get-together where 11 of us gathered to continue discussing our many favorite topics.

From left to right are Rich – KC3TOO, Rob – N3OJL, Brad – KC3ZXG, Tim – KA3JRT, Norm – K3NJT, Tom – N3XC, Tony – K3AHP, Larry – KC3ROS, and Keith KC3TMC. Not shown on the left is Greg – KC3TFW, and Rich – K3SOM who took the picture.



# Surprise !

Once a year, the Freedom Square Diner offers a chance to win a full-size replica of the Leg Lamp that was featured in the 1983 movie: *A Christmas Story*. *A Christmas Story* is about an average middle-class family living in a small town in the 1940's. The film contains an average family of a regular husband and wife relationship and two young boys. The eldest of the boys is named Ralphie (Peter Billingsley) who is the star of the film. All that Ralphie wants is to have a perfect Christmas containing the perfect gift, a Red Ryder carbine-action BB gun.

To my surprise, I received a phone call on December 22<sup>nd</sup> from Bill, the Manager of the Diner informing me that I had won the replica Leg Lamp. In the movie, the father, old man Parker, won the Leg Lamp and placed it in his front window by his Christmas tree for all to see. Below shows the camaraderie among Shani (the head waitress), me, and Roxi, our waitress at our breakfast meeting on December 26th.



The lamp, just like in the movie, is proudly displayed beside my Christmas tree just inside my front windows for all to see.

Rich – K3SOM

# Get your License or Upgrade

If you are interested in getting your first FCC license or upgrading your current amateur radio license, the Beaver Valley Amateur Radio Association holds VE Test sessions (Volunteer Examinations) the second Thursday of each month at the Beaver County Emergency Services Center in Ambridge Pennsylvania prior to our BVARA Club meeting. If there is no meeting there is no test session. Please come take your test with us!

For more information, contact :  
Rich Soltesz, K3SOM  
(724) 847-0610  
k3som@arrl.net



## VE TEST SESSIONS

Beaver County Emergency Services Center 351 14th Street Ambridge, PA 15003.  
Tests begin promptly at 5 pm on the same day as BVARA Club Meetings  
(the second Thursday of the month).  
All classes of amateur radio license tests are administered.



ALL candidates MUST bring ALL of the following:

1. 2 forms of I.D. - one MUST be a photo I.D.
2. A pencil AND a pen with blue or black ink.
3. The original AND a photocopy of any valid ham license.
4. The original AND a photocopy of any C.S.C.E.
5. The test fee of \$15 - cash only.
6. Your FRN Number. (free from the FCC, call for details)

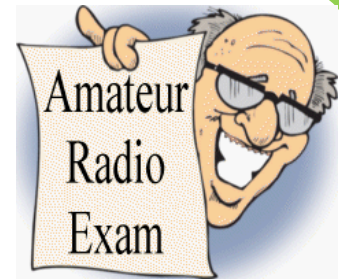




# New License and Upgrades

BVARA VE Testing

## Testing this Month :



### December 2024 VE Test Session – No Testing This Month

Our November VE Test Session was not held because, as customary with the BVARA, our Christmas Dinner replaced our regular monthly club meeting. So, no meeting, no VE Test Session. However, we all had a great time at our Christmas Dinner.

Our January 2025 VE Test Session will be held on January 9<sup>th</sup> just before our regular club meeting. Are you ready to get your ham radio license or upgrade your current license? We hope to see you there!

All of our BVARA testing would not be possible without the help of the following Extra-Class VE Team members:

Keith Custard – KC3TMC  
Reg Genola – W3REG  
Tony Pavilonis – K3AHP  
Scott Pelkofer - KC3KYZ  
Mick Pyszoha – N3OJP  
Bart Stack – KB3NFM  
Ron Victorelli – KC3TZT  
Bob Winkle – N3AZZ and  
Frank Witkowski – W3FJW

73 from Rich Soltesz – K3SOM, VE Liaison



# Membership Information

By becoming a BVARA member you help secure the future of Amateur Radio in Beaver County. Additionally, the BVARA receives a portion of each ARRL membership you purchase!

## Join the BVARA and ARRL

Sign up for:	Price	
<input type="radio"/> BVARA full membership	25.00	_____
<input type="radio"/> BVARA student membership	15.00	_____
<input type="radio"/> BVARA associate membership	10.00	_____
<input type="radio"/> BVARA Child under 21 at home membership	5.00	_____
One year ARRL membership	59.00	_____
A Club Donation		_____
ARRL Member?    Yes    No	Total    Enclosed	_____

Your License Class (If you have one.)

<input type="radio"/> Technician	Name _____
<input type="radio"/> General	Address _____
<input type="radio"/> Advanced	_____
<input type="radio"/> Extra Class	Email _____
	Phone _____
	Your Call sign _____
	Your Signature _____

Make check or money order payable to:

The Beaver Valley Amateur Radio Association, P.O. Box 424  
South Heights, Pa 15081

**Okay!**



**There will be a Hamfest  
in February!**

02/23/2025 - [WASHFest 2025](#)

# Of Interest to All

Remember back when you could communicate by “Pay Phone” for ten cents? This page is for anyone who wants to communicate with the BVARA community and beyond.



Please send me your article that you would like posted on this page. Please, only topics and language in good taste. As the editor I reserve the option to post it or ignore it. Send your dime to me at: [kc3bxc.73@gmail.com](mailto:kc3bxc.73@gmail.com)

## Propagation of Broadcast Signals

<https://www.arrl.org/propagation-of-rf-signals>

*(Reproduced, courtesy of the Amateur Radio Relay League for this wonderful collection of information)*

### Introduction

Radio waves, like light waves and all other forms of electromagnetic radiation, normally travel in straight lines. Obviously, this does not happen all the time, because long - distance communication depends on radio waves traveling beyond the horizon. How radio waves propagate in other than straight-line paths is a complicated subject, but one that need not be a mystery. This page provides basic understanding of the principles of electromagnetic radiation, the structure of the Earth's atmosphere and solar-terrestrial interactions necessary for a working knowledge of radio propagation. More detailed discussions and the underlying mathematics of radio propagation physics can be found in the references listed under additional resources.

The Sun, being the largest engine in our solar system, has a great effect on propagation as its "exhaust" interacts with our [Earth's magnetic field](#). A rudimentary knowledge of [sunspots](#), [solar flares](#) and mass ejections will help the amateur take advantage of these effects to enhance his pleasure, or understand his plight.

### Articles

- [The Sun, the Earth, the Ionosphere: What the Numbers Mean, and Propagation Predictions--a brief introduction to propagation and the major factors affecting it.](#) By Carl Lutzelschwab, K9LA
- [An Introduction to Gray-Line DXing](#) *QST* November 1992, pp. 80-82 *The transitions from darkness to daylight and daylight to darkness cause drastic changes in the ionosphere. Use this to your DX advantage.*
- [Catch a Falling Star](#) *QST* October 1997, pp. 63-67 *A Beginner's guide to meteor-scatter communication.*
- [Sporadic E--A Mystery Solved? Part 1](#) *QST* October 1997, pp. 39-41 *One of the world's leading ionospheric scientists explains the physics of sporadic E.*
- [Sporadic E--A Mystery Solved? Part 2](#) *QST* November 1997, pp. 38-42
- [HF Propagation: The Basics](#) *QST* December 1983, pp. 11-15 *Say it's 10 P.M. in Savannah, and you'd like to reach out and QSO someone in southern Europe. A solid knowledge of how signals travel will help you decide if you've got a fighting chance.*
- [Radio Waves and Communications Distance](#) *QST*, January 1985, pp. 31-33

# Of Interest to All

- [Here Comes the Sun](#) *QST*, Lab Notes, October 1996, pp. 74-75
- [Radio Waves and the Ionosphere](#) *QST*, November 1999, pp. 62-64
- [Propagation Broadcasts and Forecasts Demystified](#) *QST* November 1991, pp. 20-25
- [ARLP029: Propagation de K7VVV](#) *WIAW* broadcasts a weekly *Propagation Bulletin*. In this one Tad Cook, K7RA, formerly K7VVV, gives a summary of what the numbers in a propagation forecast mean and how they are compiled.
- [The Brendan Trophies: Insights for the New Millennium](#) *QST* August 2002, pp. 36-39 *Can amateurs cross the Atlantic on 144 MHz without satellites or moonbounce?*
- [Understanding Solar Indices](#) *QST* September, 2002, pp. 38-40 *When someone tells you that the flux is up to 200 and the K is 3, do you know what they are talking about? You will after you read this article!*
- [What is VOACAP Trying to Tell Me?](#) *A Presentation to The Yankee Clipper Contest Club Feb. 1, 2003, Milford, CT, by Dean Straw, N6BV, Senior Assistant Technical Editor, ARRL*
- [Why We Stack 'Em! Covering All the Angles](#) *A Presentation to The Yankee Clipper Contest Club, Feb. 1, 2003, Milford, CT, by Dean Straw, N6BV, Senior Assistant Technical Editor, ARRL*
- [Microwave Propagation in the Upper Troposphere](#) *QEX* July/August, 2003 *Amateur microwave work need not be restricted to operation*
- [Propagation Planning for DXpeditions](#) *6 Steps for a More Successful Trip* by Carl Luetzelschwab K9LA
- [Propagation Planning for Contests](#) *Using Propagation Predictions to Develop a Band Plan* by Carl Luetzelschwab K9LA
- [Practical Radio Aurora](#) *QST* March 1990, pp 20-25. While solar events such as coronal mass ejections can seriously disturb HF propagation, the same events can also enhance VHF propagation.

## Tutorials

- [An Introductory Tutorial to W6ELProp](#) (96,641 bytes, PDF file) *A Guide to Running Your Own Propagation Predictions*, by Carl Luetzelschwab, K9LA. *W6ELProp* is named after the amateur call sign held by Sheldon C Shallon.

# Of Interest to All

- [An Introductory Tutorial to VOACAP](#) (92,076 bytes, PDF file) *A Guide to Running Your Own Propagation Predictions*, by Carl Luetzelschwab, K9LA
- [Electronics Technician Volume 7—Antennas and Wave Propagation](#) NAVEDTRA 14092 Large 3.11MB download.  
Steve Nichols G0KYA and Alan Melia G3NYK wrote a series of propagation articles for the RSGB that is now an ebook. It can be downloaded from [Steve Nichols' blog](#).

## Propagation Reports and Forecasts

- [Radio Signal Propagation](#) *Many articles on how radio signals travel great distances at different frequencies. Topics include sporadic E, sunspots, troposcatter, meteor scatter, sudden ionospheric disturbances, and ground wave propagation.*
- [hfradio.org propagation](#) *This page is dynamically created from many sources using automation, and the information contained is as fresh as possible. This page will reload every 15 minutes, which will refresh any content that has changed since last viewing.*
- [W1AW Propagation Bulletins](#) W1AW, the Hiram Percy Maxim Memorial Station provides informational bulletins to Amateur Radio Operators.
- [DX-Listeners' Club Solar Terrestrial Activity Report](#) *The Solar Terrestrial Activity Report is generally updated once a day. The report contains a graphical view of the last 2 months' solar flux values, sunspot count and planetary A index. In addition, there is information on recent solar events as well as predictions for the next days. Charts of all sunspot cycles from cycle 1 are available as well as comparisons of the most recent cycle with previous cycles*
- [D-Region Absorption Prediction](#) *Presented by the NOAA/Space Environment Center*
- [Today's Space Weather](#)
- [Welcome to The Aurora Page](#) *Information, forecasts, links and images about the "Northern Lights".*
- [VHF / UHF Tropospheric Ducting Forecast](#) Paul Kelley N1BUG maintains [Aurora Sentry](#), a page with satellite maps that show auroral activity
- [VOACAP.com](#) Monthly point to point and coverage area predictions for HF propagation.

## Propagation Beacons

- [G3USF's Worldwide List of HF Beacons](#) Martin Harrison G3USF maintains a list of HF beacons.

# Of Interest to All

- [G3USF's Worldwide List Of 50MHz Beacons](#) Martin Harrison G3USF maintains a list of 50MHz beacons.
- [VHF/UHF BEACONS by WZ1V](#) Ron Klimas WZ1V maintains a list of VHF/UHF beacons.

## Propagation Software

- [Ham CAP 1.5 HF propagation prediction tool for Amateur Radio](#). Freeware by Alex Shovkopyas, VE3NEA.
- [HF Propagation Models from NTIA/ITS U.S. Department of Commerce NTIA/ITS Institute for Telecommunication Sciences High Frequency Propagation Models](#). The package includes ICEPAC, VOACAP, and REC533. Freeware.
- [Radio Mobile Freeware by VE2DBE](#) This software by Roger Coude VE2DBE predicts the performance of VHF and UHF radio systems.
- [PropView](#) PropView uses the included IonCap propagation prediction engine to forecast the minimum and maximum useable frequencies between two locations over a specified 24-hour period.
- [ACE-HF Professional Propagation Software for HF Radio Operators](#) QST Product Review, [November 2002](#) \$200 program with 30 day trial (2022).
- [DX Atlas by VE3NEA \(Afreet Software, Inc.\)](#) Alex Shovkopyas VE3NEA provides this software program. \$30 program with 30-day trial (2022).



# Of Interest to All

## Announcing The 1<sup>st</sup> Annual BVARA CW Roundup!

**Date:** Feb 27, 2025 **Time:** 7:00 to 8:30 PM (Local Time) **Frequency:** 28.04 to 28.06 MHz **100W Max**  
**Feb 28, 2025 Time 0:00 to 01:30 UTC**

**Operating Classes:** **CLASS A** – BVARA member – Experienced CW operator  
**CLASS B** – Newcomer or newer CW operator (BVARA member or non-member)  
**CLASS C** – Non-BVARA member – Experienced CW operator  
**CLASS D** – Listeners who copy only (log calls of participating stations you heard)

**CQing:** Send "CQ CWR CQ CWR"

**Exchange:** Signal report (including operating class) / QTH (your location) / Name

**Example:** You are a newer CW operator and you are in a QSO with K3XYZ whose signal is readable, their signal strength is registering a '7' on your S-meter and their signal tone is good. Your (example) callsign is W3ABC, you live in Ambridge, and your name is Bruno. You would then send something like:

K3XYZ DE W3ABC (K3XYZ this is W3ABC) BT (break)

RST IS 579 B 579 B BT (signal report and class)

QTH IS AMBRIDGE, PA AMBRIDGE, PA BT

NAME IS BRUNO BRUNO BT

HW CPY? (how did you copy my transmission?)

K3XYZ DE W3ABC K (over)

The other station would then reply with their information using the same format. After the exchanges are completed, short informal remarks can be made during the QSO if desired, after which the contact would end with something like:

TNX FER QSO (thanks for the QSO)

GL ES 73 (good luck and best wishes)

K3XYZ DE W3ABC SK (end of contact)

**Description of event:** *This 1½-hour event is not a contest.*

Rather, it is a celebration of our area

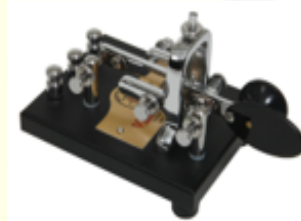
newcomers new to CW, returners to the mode of CW, and listeners. Also, it is an invitation to our veteran CW operators to enjoy helping the newcomers in making live, on-air CW contacts. There are no points scored, and no results or standings posted. **You do NOT have to be a member of the BVARA to participate.**

A handsome certificate will be issued to each participant submitting a log entry from the event (see above)

Send logs *no later than Saturday, March 8, 2025*, to Rich Soltész – K3SOM, 115 Brooks Dr, Beaver Falls, PA 15010 or:

Electronic log: [K3SOM@ARRL.net](mailto:K3SOM@ARRL.net)

Attach Cabrillo file: [call].log



# Of Interest to All

**BVARA**



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## January 2025

**Straight Key Night, CW, All Authorized Bands, January 1<sup>st</sup> from 0000 – 2359 UTC**

**ARRL Kids Day, January 4<sup>th</sup>, PH**

**North American QSO Party, January 11<sup>th</sup> – 12<sup>th</sup>, CW**

**ARRL January VHF Contest, January 18<sup>th</sup>, 50 Meters and Up, CW, PH, Dig**

**North American QSO Party, January 18<sup>th</sup> – 19<sup>th</sup>, SSB**

**CQ 160 Meter Contest, January 24<sup>th</sup> – 26<sup>th</sup>, CW**

**Winter Field Day, January 25<sup>th</sup> – 26<sup>th</sup>, CW, PH, Dig (No FT8)**

**Australia Day, January 25<sup>th</sup> – 26<sup>th</sup>, CW, PH, Dig**

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## February 2025

**WASHfest 2025 Home Economics Building, South Park, Sunday, Coming soon!**

**1<sup>st</sup> Annual BVARA CW Roundup, February 27<sup>th</sup>, 7:00 to 8:30 PM Local Time  
28.040 to 28.060 MHz, 100 Watts Max (See Flier in this Newsletter for Details)**

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# Bits and Pieces

Happy New Year,

What awaits us? Have you made any radio plans yet? An upgrade to your transceiver, a new antenna, an amplifier, a tower & rotor or something else? I am looking forward to this new year! I have plans! I want to attend as many hamfests as I can and to finally get that “Dadgum Poled” horizontal antenna up and running. I still have the dadgum poles I need to “skin” and then plant them in the ground. I have been saying this for so long. But I think this will be my year. My many projects on the farm have kept me overwhelmed. I was too unorganized to have a clear path that would ensure I got things completed in a timely manner. Last year in January I decided to get organized and get stuff done so I could play at my radio hobby and not feel guilty that I stole time to play when I should be working on farm things.



Last year I wrote a list of over three hundred things I needed to take care of here on the farm. With my wife’s help and some others, we are below fifty things that took precedent over my Ham radio hobby. We have been working hard to get the farm things completed. So... things are looking good to finally get to my dream antenna build. I am crossing my fingers that everything works out to finally, finally get to that Dadgum Pole installation!

I hope your radio dreams come to fruition way quicker than mine have. Before the cold weather set-in I stole a day from the “farm doings” to re-install my existing HF antenna. Well, that didn’t work out. It turned out that my coax to the antenna was smashed and it shorted the center conductor to the shield. I may still take the antenna down and put a new coax on that HF antenna. It has been cold and snowy. I really would like to wait for a much warmer time to do this “new coax install”. If I get adventurous I will put some vigor into that old antenna before spring.

I am planning to add a new page to the eQRM. I will call it “Who Did’ya Contact Recently”. I will send out by email a request for you to fill out and return to me. I will make it simple and to the point. I want to know who you made contact with recently in your radio doings. It is my hope that this will encourage our group to get on the air more often and let me know who you got to contact. So be looking in your email for this invitation to help me make our newsletter even better!

This month’s eQRM just about wrote itself. I am excited to hear from you all. Please help with your radio contact inputs. Till next month...

Clear on your final, but I will be monitoring.

73



KC3BXC



# Radio Sport

## Contest Corral

## January 2025

Check for updates and a downloadable PDF version online at [www.arrl.org/contest-calendar](http://www.arrl.org/contest-calendar).

Refer to the contest websites for full rules, scoring information, operating periods or time limits, and log submission information.

	Start - Finish		Bands	Contest Name	Mode	Exchange	Sponsor's Website
	Date-Time	Date-Time					
1	0000	1 0100	3.5	AGB New Year Snowball Contest	CW Ph Dig	RST, serial, mbr (if any)	<a href="http://www.qsl.net/eu1eu/agb_nysb.htm">www.qsl.net/eu1eu/agb_nysb.htm</a>
1	0800	1 1100	3.5,7	SARTG New Year RTTY Contest	Dig	RST, serial, name, happy new year (native language)	<a href="http://www.sartg.com">www.sartg.com</a>
1	0900	1 1200	3.5-14	AGCW Happy New Year Contest	CW	RST, serial, mbr (if any)	<a href="http://www.agcw.de">www.agcw.de</a>
1	1400	1 1800	144,432	AGCW VHF/UHF Contest	CW	RST, serial, pwr class, 6-char grid square	<a href="http://www.agcw.de">www.agcw.de</a>
1	2000	1 2100	3.5	UKEICC 80m Contest	Ph	6-char grid square	<a href="http://www.ukeicc.com/80m-rules.php">www.ukeicc.com/80m-rules.php</a>
2	0000	3 0300	7	Walk for the Bacon QRP Contest	CW	Max 13 WPM; RST, SPC, name, mbr or pwr	<a href="http://qrptest.com/pigwalk40">qrptest.com/pigwalk40</a>
2	1800	2 2200	28	NRAU 10m Activity Contest	CW Ph Dig	RS(T), 6-char grid square	<a href="http://nrau.net/nrau-contests-in-general">nrau.net/nrau-contests-in-general</a>
2	2000	2 2200	1.8-28,50	SKCC Sprint Europe	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
3	0100	3 0130	See rules	NCCC FT4 Sprint	Dig	4-char grid square	<a href="http://www.ncccsprint.com">www.ncccsprint.com</a>
3	0230	3 0300	See rules	NCCC Sprint	CW	serial, name, QTH	<a href="http://www.ncccsprint.com">www.ncccsprint.com</a>
4	0000	4 2359	3.5-28	PODXS 070 Club PSKFest	Dig	RST, SPC	<a href="http://www.podxs070.com">www.podxs070.com</a>
4	0700	4 2100	3.5-14	Marconi Club ARI Loano QSO Party Day	CW	RST, serial, "MC" (if mbr)	<a href="http://www.ariloano.it">www.ariloano.it</a>
4	1200	5 1200	1.8-28	WW PMC Contest	CW Ph	RS(T), PMC abbrev or CQ zone	<a href="http://www.s59dcd.si">www.s59dcd.si</a>
4	1300	4 1700	3.5,7	RSGB AFS Contest, CW	CW	RST, serial	<a href="http://www.rsgbcc.org">www.rsgbcc.org</a>
4	1800	4 2359	3.5-14,18,21,24,28,2-m rptrs	ARRL Kids Day	Ph	Name, age, QTH, favorite color	<a href="http://www.arrl.org/kids-day">www.arrl.org/kids-day</a>
4	1800	5 2359	3.5-28	ARRL RTTY Roundup	Dig	W/VE: RST, SP; non-W/VE: RST, serial	<a href="http://www.arrl.org/rtty-roundup">www.arrl.org/rtty-roundup</a>
4	2000	5 0700	1.8	EUCW 160m Contest	CW	RST, name, mbr or "NM"	<a href="http://www.uft.net">www.uft.net</a>
7	0100	7 0300	3.5-28	ARS Spartan Sprint	CW	RST, SPC, pwr	<a href="http://ars-qrp.com">ars-qrp.com</a>
11	0000	11 2359	3.5-28	YB DX Contest	Ph	RS, serial	<a href="http://ybdxcontest.com">ybdxcontest.com</a>
11	1200	12 1200	3.5-28	UBA PSK63 Prefix Contest	Dig	ON: RSQ, UBA section or serial (starting with 001)	<a href="http://www.uba.be">www.uba.be</a>
11	1200	12 2359	1.8-28,50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
11	1800	12 0559	1.8-28	North American QSO Party, CW	CW	Name, SPC	<a href="http://www.ncjweb.com/NAQP-Rules.pdf">www.ncjweb.com/NAQP-Rules.pdf</a>
12	0630	12 0830	3.5,7	NRAU-Baltic Contest, SSB	Ph	RS, serial, 2-letter fylke/län/province/region	<a href="http://www.nraubaltic.eu">www.nraubaltic.eu</a>
12	0900	12 1059	28	DARC 10m Contest	CW Ph	RS(T), serial, DOK (if any)	<a href="http://www.darc.de">www.darc.de</a>
12	0900	12 1100	3.5,7	NRAU-Baltic Contest, CW	CW	RST, serial, 2-letter fylke/län/province/region	<a href="http://www.nraubaltic.eu">www.nraubaltic.eu</a>
12	1300	12 1700	3.5,7	RSGB AFS Contest, Data	Dig	RST, serial	<a href="http://www.rsgbcc.org">www.rsgbcc.org</a>
13	0100	13 0300	1.8-28	4 States QRP Group Second Sunday Sprint	CW Ph	RS(T), SPC, mbr or pwr	<a href="http://www.4sqrp.com">www.4sqrp.com</a>
14	1800	14 1929	3.5,7	DARC RTTY Sprint	Dig	RST, serial, DOK (if any)	<a href="http://www.darc.de">www.darc.de</a>
15	2300	19 2300	1.8-14	AWA Linc Cundall Memorial CW Contest	CW	RST, eqpt year, input power (see rules for format)	<a href="http://www.antiquewireless.org">www.antiquewireless.org</a>
16	0000	17 0300	14	Walk for the Bacon QRP Contest	CW	Max 13 WPM; RST, SPC, name, mbr or pwr	<a href="http://qrptest.com/pigwalk20">qrptest.com/pigwalk20</a>
16	0130	16 0330	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or pwr	<a href="http://naqcc.info/sprint_rules.html">naqcc.info/sprint_rules.html</a>
16	1900	16 2000	3.5-14	NTC QSO Party	CW	Max 25 WPM; RST, mbr or "NM"	<a href="http://pi4ntc.nl/ntcqp">pi4ntc.nl/ntcqp</a>
18	1200	19 1159	1.8-28	Hungarian DX Contest	CW Ph	RS(T), serial, 2-letter county (if HA)	<a href="http://ha-dx.com/en/contest-rules">ha-dx.com/en/contest-rules</a>
18	1200	19 1159	3.5-28	PRO Digi Contest	Dig	RST, serial, "ME" (if mbr)	<a href="http://proradiocontestclub.com">proradiocontestclub.com</a>
18	1300	18 1700	3.5,7	RSGB AFS Contest, SSB	Ph	RS, serial	<a href="http://www.rsgbcc.org">www.rsgbcc.org</a>
18	1800	19 0559	1.8-28	North American QSO Party, SSB	Ph	Name, SPC	<a href="http://www.ncjweb.com/NAQP-Rules.pdf">www.ncjweb.com/NAQP-Rules.pdf</a>
18	1800	19 0559	1.8-28	NA Collegiate Championship, SSB	Ph	Name, SPC if NA	<a href="http://www.w9smc.com/nacc">www.w9smc.com/nacc</a>
18	1900	20 0359	50 and up	ARRL January VHF Contest	CW Ph Dig	4-char grid square	<a href="http://www.arrl.org/january-vhf">www.arrl.org/january-vhf</a>
18	2000	19 0559	1.8-7	Feld Hell Sprint	Dig	See rules	<a href="http://sites.google.com/site/feldhellclub">sites.google.com/site/feldhellclub</a>
19	2300	20 0100	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or pwr	<a href="http://qrptest.com/pigrun">qrptest.com/pigrun</a>
22	0000	22 0200	1.8-28,50	SKCC Sprint	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
23	0130	23 0330	1.8	NAQCC CW Sprint	CW	RST, SPC, name, mbr or "none"	<a href="http://naqcc.info/sprint_rules.html">naqcc.info/sprint_rules.html</a>
24	2200	26 2200	1.8	CQ 160m Contest, CW	CW	RST, SP or CQ zone	<a href="http://www.cq160.com">www.cq160.com</a>
25	0600	26 1800	3.5-28	REF Contest, CW	CW	RST, French dept or serial	<a href="http://concours.r-e-f.org">concours.r-e-f.org</a>
25	1200	26 1200	3.5-28	BARTG RTTY Sprint	Dig	Serial (no signal report)	<a href="http://bartg.org.uk">bartg.org.uk</a>
25	1300	26 1300	3.5-28	UBA DX Contest, SSB	Ph	RST, serial, ON section (if ON)	<a href="http://www.uba.be">www.uba.be</a>
25	1600	26 2159	No WARC	Winter Field Day	CW Ph Dig	Category, ARRL section, MX or DX	<a href="http://www.winterfieldday.com">www.winterfieldday.com</a>
25	2200	26 1000	1.8-28	Australia Day Contest	CW Ph Dig	RST, 4-char grid square	<a href="http://www.wia.org.au">www.wia.org.au</a>
29	2000	29 2100	3.5	UKEICC 80m Contest	CW	6-char grid square	<a href="http://www.ukeicc.com">www.ukeicc.com</a>