

# THE eQRM

DECEMBER 2025



*Merry Christmas*

## The BVARA in Beaver County Pennsylvania

Beaver Valley Amateur Radio Association

W3SGJ

2M Repeater

145.310

PL 131.8



**On the Cover:** The Beaver Valley Amateur Radio Association is wishing you a very merry Christmas. Merry Christmas to you and yours!

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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

## 2025 BVARA OFFICERS

President: Jack Spencer, KZ3Z

Vice President: Larry Homich, KC3ROS

2nd Vice Pres.: Greg Burns KCTFW

Treasurer: Pam Spencer, W3PMS

Secretary: Tom Stoops N3XC

Director: Tony Pavilonis, K3AHP

Director: Jim Allen, KC3IXE

Director: Douglas Lawrence K3GTX

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

Dec 06 Christmas Party

## 2026

Jan 08

Feb 12

Mar 12

Apr 09

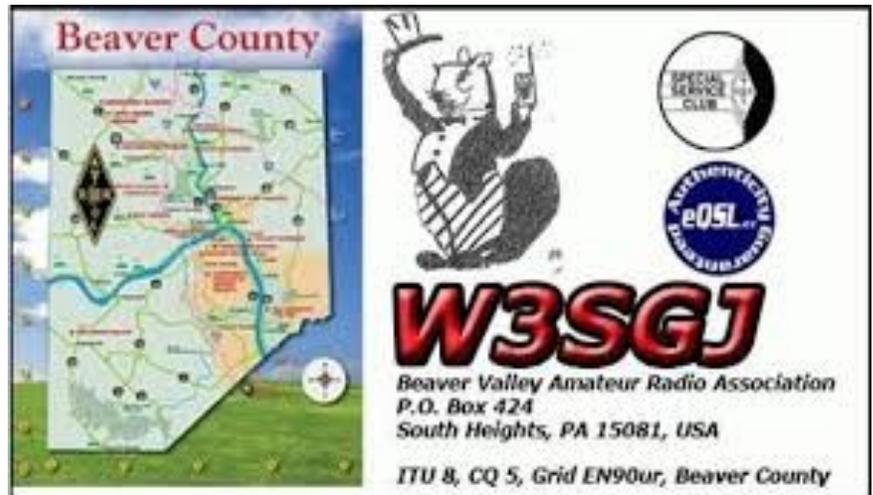
May 14

Jun 11

Jul 09

Aug 13

Sep 10



# This Month

**There will be no Club meeting this month.**

**We will resume January 08, 2026**

We will all be at the BVARA Christmas Party!



# 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)

# 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:

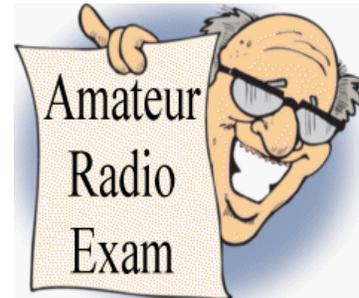
1. 2 forms of I.D. - one MUST be a photo I.D.
2. A pencil AND a pen with blue or black ink.
3. The original AND a photocopy of any valid ham license.
4. The original AND a photocopy of any C.S.C.E.
5. The test fee of \$15 - cash only.
6. Your FRN Number. (free from the FCC, call for details)



# New License and Upgrades

BVARA VE Testing

## Testing this Month :



### November 2025 VE Test Session Results

Our November VE Test Session had one candidate, who achieved his Amateur Radio goal by passing his Technician test. Our electronic filing system once again worked superbly.

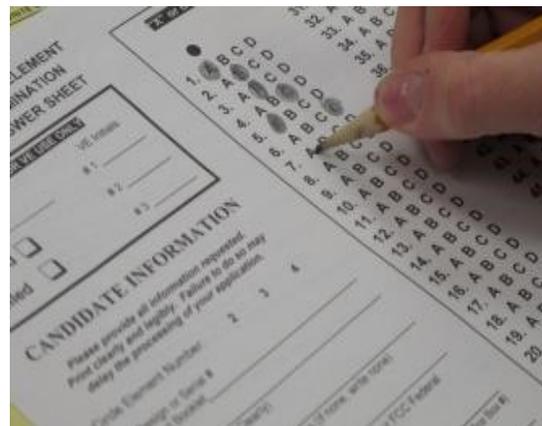
Testing was conducted at our normal location at the Beaver County Emergency Services Center in Ambridge, PA. Our next VE Test Session will be on January 8<sup>th</sup>, 2026. However, because the shutdown of the Federal Government finally ended in mid-November, the FCC was able to process the backlog for our October and November candidates! Harrumpf, harrumpf!

With newly assigned call signs, congratulations to:

- Matt Hospodar, KD3CAQ, General, Monaca, PA (October)
- Luke Johnson, KD3CBU, Technician, Aliquippa, PA (November)

If you hear them on the air, please congratulate them on their achievement! 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 Pyzoha – 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	_____
A Club Donation		_____
	Total	Enclosed _____

ARRL Member?    Yes    No

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

## STRUTHERS ROAR HAMFEST

**JANUARY 31, 2026**

ST. NICHOLAS HALL — 762 5TH ST  
STRUTHERS, OHIO

**8AM – 1PM**

**50/50  
RAFFLE**

**8' TABLE / CHAIRS  
\$20 PER SPACE**

**RAFFLE  
PRIZES**

**PRIZES INCLUDE:  
LMR 400, HT, BIOENNO BATTERY,  
DX ENGINEERING GIFT CARDS  
AND MORE**



**VE LICENSE TESTING  
WATER COFFEE DONUTS  
FREE PARKING**

**\$5**

**ANTENNAS, ELECTRONICS,  
RADIO GEAR, HAM RADIO,  
GMRS RADIO**

**ADMISSION**

**FOR VENDOR TABLE:  
KEN (330) 720-0801 OR STRUTHERSROAR@ GMAIL.COM**

**Sat, 31 Jan, 2026 at 08:00 am to 01:00 pm (EST)**

### **Struthers ROAR Hamfest**

Join us for Struthers Regional Operators of Amateur Radio (Rotary Corp) first annual Hamfest in Mahoning County, right in Struthers at St. Nicholas Hall. Vendors do not have to be amateur radio or electronics related!

# It's your dime

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)



## Easy Test Tool for $\mu$ SD and SD Cards

If you're like me, you've probably accumulated quite a few  $\mu$ SD and SD cards over the last few years by various manufacturers, various capacities, formats, designs for USB 2 or USB 3 interfaces, and on and on. How can one tell if they are suitable for application X or should only be used for application Y? What is the impact of plugging it into a USB 2 or 3 port? Are they legitimate products or illegal knockoffs?

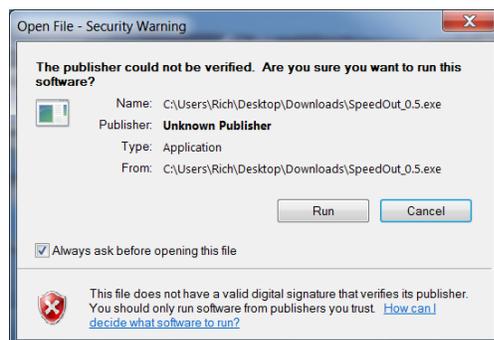
While reading the blog of John, AE5X, he describes the small tool that he found to solve these and other issues with removeable storage devices. My IC-7300 and my IC-705 have had a  $\mu$ SD or SD card in place since first turned on. Does their performance deteriorate over time?

The free SpeedTest V0.5 executable for Windows can be found here:

[http://tools.cam-do.com/SpeedOut/SpeedOut\\_0.5.exe](http://tools.cam-do.com/SpeedOut/SpeedOut_0.5.exe)

There is also one available for the MAC. A web search can find many more, but this one works and is easy to use. On my PC, the front USB ports come up as G: devices, as I have a removeable hard drive on my F: device. Make sure you test the correct removable drive if more than one appears there to choose.

This is the opening screen preceded by a warning from the Operating System. It's OK to run.



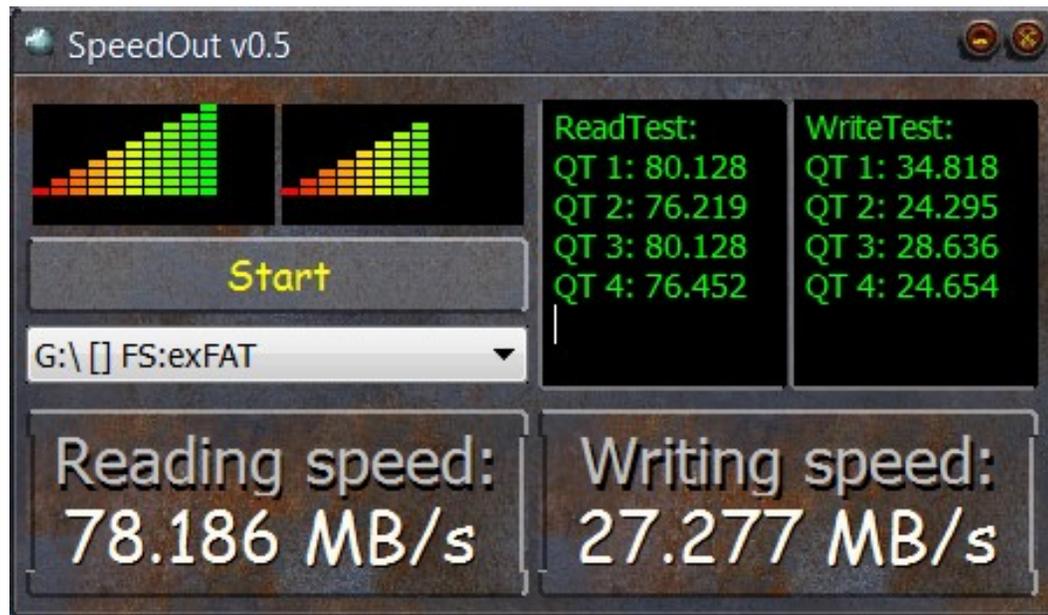
# It's your dime



After you plug in the SD or  $\mu$ SD card, the display changes to this screen, indicating the G: drive and the type of format contained on the drive. After you press the *Start* Button, the program runs four read tests followed by four write tests and displays the averages of the two types of test. You may run it again, if you wish, but the numbers are always close, depending on what else your PC is doing. The prudent ham might choose to give the card a new name consisting of the read and write average speeds for future reference.



# It's your dime



This  $\mu$ SD card has 64 GB of storage, is a Class 10 card, with the 10 inside the capital letter, 'C' and a 1 inside of a capital letter 'U', and a slanted to the right letter, 'A' followed by the number, '1'. Cryptic? You bet! Evolving products that compete among vendors and fraudsters create this kind of puzzling 'information'. Here's a web page from Kingston that tries to explain SD card Classes:

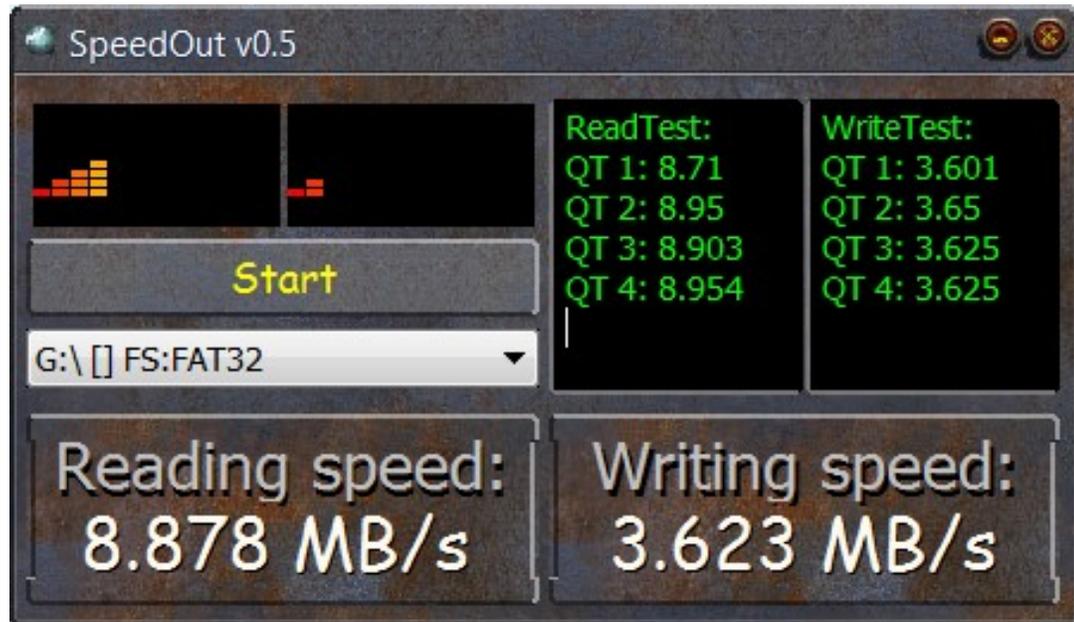
<https://www.kingston.com/en/blog/personal-storage/memory-card-speed-classes>

Here's a link from SanDisk with their information:

[https://support-en.sandisk.com/app/answers/detailweb/a\\_id/36273/~/specifications-and-compatibility-for-sd%2Fsdhc%2Fsdxc-memory-cards](https://support-en.sandisk.com/app/answers/detailweb/a_id/36273/~/specifications-and-compatibility-for-sd%2Fsdhc%2Fsdxc-memory-cards)

For reference purposes, I tried several other SD and  $\mu$ SD cards. This Lexar one is really old and only offers 2 GB of storage. Notice how small the graphs are. Cards must be >1 GB.

# It's your dime

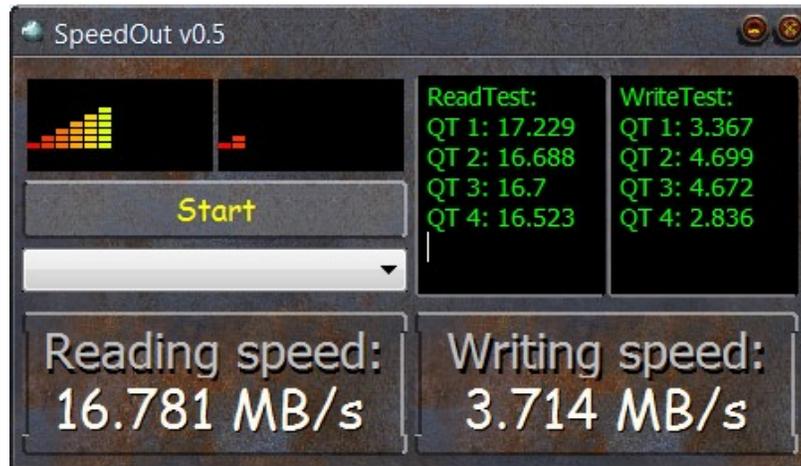


Here is a Lexar USB 3.0 64 GB Thumb Drive.



Here's a SanDisk Cruiser Glide 32 GB USB 2 Thumb Drive. Could this be an illegal knockoff?

# It's your dime



Your mileage may vary!

Finally, below are results from the blog of John, AE5X:

Card	MB/s	
	Read	Write
Generic	88	26
Samsung	88	67
Lexar	90	84
SD Extreme +	87	83
SD Extreme Pro	85	28
SD Extreme Pro	82	78

The image shows a collection of memory cards: a black 32GB microSD card, a green Samsung EVO Select 64GB microSD card, a grey Lexar 128GB microSD card, a red SanDisk Extreme PLUS 64GB microSD card, a red SanDisk Extreme PRO 128GB microSD card, and another red SanDisk Extreme PRO 128GB microSD card.

At a recent hamfest, I found Transcend 32 GB  $\mu$ SD cards in a plastic bag priced at five for \$10. I found lots of uses for them. I should probably test one or two of them. Now where did I put them?

Rich – K3SOM

# Of Interest to All



## **BVARA Christmas Party**

The annual BVARA Christmas dinner is scheduled for Saturday, December 6 at the Grand Valley Inn in Fallston.

- Dinner is at 6 PM
- Cost is \$24.99 per person
- Dinner will be buffet style and includes slow roasted roast beef and herb roasted chicken
- soft drinks are included
- cash bar will be available
- money should be sent to Tom, N3XC, and checks should be made out to BVARA

- **RSVP by Friday, November 21**

There will be an optional gift exchange, if you participate in the exchange bring a gift that is approximately \$20.

(consider marking the gift as appropriate for an OM or YL)

Doug, N4YKQ

# Of Interest to All

## Veterans Trail Festival, 2025 Benefitting Outdoor Immersion

By: Doug, N4YKQ

On Saturday, November 8, 2025, ten Beaver County ham radio operators representing both the Beaver Valley Amateur Radio Association and the Triple 'A' Amateur Radio Association provided communication support for the Veterans Trail Festival held in the Raccoon Creek State Park. This event is an off-road trail run in a state park where terrain is challenging and cell-phone coverage is poor. The race course consisted of a 20-mile loop of hiking trails around the perimeter of the Raccoon Creek State Park with five checkpoints scattered around the course. There were two races being run on this course, a 20-mile run with 56 participants, and a 50k (approximately 31 miles) with 49 participants. Runners completing the 50k were required to run a portion of the course a second time to add the extra 11 miles.

The weather on race day was mild with mostly cloudy skies and morning temperatures in the mid to high 30s with a high temperature in the 50s. There was rain the night before the race, so trail conditions were wet and slippery.

Even though the name of the race has changed several times over the years, this is the sixth time that ham operators have assisted the Outdoor Immersion group with this race. Operators gathered at 7 AM at the Recreation Hall at, which is the location of the start/finish line, to set up the net control station and meet with other checkpoint volunteers.



Outdoor Immersion information table at the Recreation Hall. Photo: Doug, N4YKQ

# Of Interest to All



Checkpoint #3. Photo: Greg, KC3TFW

attend this year, I used my [truck's](#) dual-band radio in crossband repeat mode paired with a UHF portable that I was carrying to serve as both net control operator and runner to pass messages to race officials at the start/finish line.

In years past ham operators would copy runner 'bib' numbers at each checkpoint and pass those back to net control so race organizers could track race progress. This year the checkpoint operators found that, due to a change in the 'bib' design, the numbers were nearly impossible to read as runners passed. We changed to keeping a simple head count as runners passed each checkpoint and reported that number, as well as any problems that arose. Fortunately, those problems were few.

Most runners completed the course with only one runner leaving the course due to a sprained ankle. A few other runners simply did not want to finish and left the course voluntarily. One runner who enrolled for the 50k opted to switch to the shorter 20-mile competition. Those issues were all reported to race organizers so they could update their records accordingly.

Mick, N3OJP, provided use of his cell phone for one runner who opted out of the race to call for a ride from checkpoint #4. He also provided a ride back to the start/finish for another runner who opted out.

Upon arriving at the Recreation Hall and meeting with Jim Skal, the director of Outdoor Immersion, I learned that one of the checkpoints that was used in previous races had been moved. Roy, K3BBC, and Tom, N3XC, met with Skal to receive directions to their new location.

Several ham operators assisted in the setup of the net control station at the Recreation Hall. We erected a 25-foot mast topped with a Hustler CG-144 antenna to provide VHF radio coverage to all the checkpoints. Because our usual net control operators were unable to at-

# Of Interest to All

Each checkpoint had a cut-off time that was determined by race organizers. As those cut-off times were reached, I would advise the operators that they could cease their operations and return to the start/finish line.

By 3 PM, only checkpoint #2 was still in use and was able to be reached without use of the 25-foot mast. Operators who had returned to the start/finish helped me remove the mast and pack it away. By 4 PM, our operations completed and all ham operators were able to leave the site.

I briefly spoke to Jim Skal from Outdoor Immersion before we left. He had nothing but praise and gratitude for our operations and assistance in maintaining a safe race.



Checkpoint #3. Photo: Brad, KC3ZXG

Thanks to Roy, K3BBC; Tom, N3XC; Randy, KC3LZM; Sean, K3UKE; Greg, KC3TFW; Brad, KC3ZXG; Dan, KB3VSP; Mick, N3OJP; Doug, K3GTX for operating at the checkpoints and Jack, KZ3Z for use of the mast and antenna for net control.

## BVARA Coming Attractions



### December 2025

ARRL 160 Meter Contest, CW, December 5<sup>th</sup> – 7<sup>th</sup>

ARRL 10 Meter Contest, CW and SSB, December 13<sup>th</sup> – 14<sup>th</sup>

ARRL Rookie Roundup, CW, December 21<sup>st</sup>

Every night between Thanksgiving and Christmas, Santa is on the air for the Santa Net on 3.916 MHz at 7 PM Central.

Kids check in, talk to net control, and get their moment with Santa over HF.

**Dec. 1 – Dec. 7, 0000Z – 2359Z, W2MM**, Sandpoint, ID.  
Quarter Century Wireless Association, Inc. **QCWA Anniversary Special Event Activity**. CW: 3.540 7.035 14.040 21.050 28.050; SSB: 3.810 7.244 14.262 21.365 28.325; FT8/FT4.  
Certificate. QCWA Activities Manager, 1613 Poplar St., Sandpoint, ID 83864-2081. [activitiesmanager@qcwa.org](mailto:activitiesmanager@qcwa.org)

**Dec. 1 – Dec. 11, 1300Z – 2200Z, W2W**, Hunt Valley, MD.  
Amateur Radio Club of the National Electronics Museum.  
**W2W Pearl Harbor Day Commemoration**. 7.041 7.241 14.041 14.241. Certificate & QSL. ARCNEM, 338 Clubhouse Rd., Hunt Valley, MD 21031. Primary operation will be Dec. 1 – Dec. 7 with additional operation possible during the Dec. 8 – Dec. 11 period as operator availability permits. Operation on 80 meters (3.541, 3.841) and digital modes possible during event.  
<https://ww-2.us>

**Dec. 11 – Dec. 14, 1400Z – 2200Z, WX3MAS**, Nazareth, PA.  
Christmas City ARC. **Extending Christmas Greetings to the Amateur Radio Community Since 1969**. 3.850 7.270 14.265.  
QSL. WX3MAS c/o DLARC, 14 Gracedale Ave., Nazareth, PA 18064. [www.dlarc.club](http://www.dlarc.club)

**Dec. 13, 1700Z – 2359Z, NI6IW**, San Diego, CA. USS *Midway* Museum Ship. **Pearl Harbor Remembrance Day**. 7.250 14.320; 14.070 PSK31; D-STAR on PAPA System Repeaters.  
QSL. USS *Midway* Museum Ship COMEDTRA, 910 N. Harbor Dr., San Diego, CA 92101. [www.qrz.com/db/ni6iw](http://www.qrz.com/db/ni6iw)

# Bits and Pieces

Hello,

Christmas is right around the corner. To me this is the greatest event of the year. We celebrate the birth of our savior, Jesus Christ. I get so excited! This is a time of cookies, hot chocolate, gift exchanging and meals with family and friends. I am wishing you the very merriest of Christmas's!

I am looking forward to this Saturdays BVARA Christmas Party, then all the next years club activities. There will be club field trips, club meetings, club breakfasts, hamfests and more. I always get excited for summer field day but there is winter field day yet to enjoy.

I hope you have all your outdoor ham related chores completed. "Baby it's cold outside". Winter came early to us this year.

Enjoy the holidays, stay warm and dry. Until next year...



I will be hanging out with my Christmas kitty.

A Merry Christmas

Everyone !

Clear on your final, but I will be monitoring.



73 KC3BXC



# Radio Sport

## Contest Corral

## December 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					
2	0100	2 0300	3.5-28	ARS Spartan Sprint	CW	RST, SPC, pwr	<a href="http://ars-qrp.com">ars-qrp.com</a>
4	0000	4 0300	1.8	QRP ARCI Top Band Sprint	CW	RST, SPC, mbr or pwr	<a href="http://qrparci.org">qrparci.org</a>
4	0000	5 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>
4	1800	4 2200	28	NRAU 10m Activity Contest	CW Ph Dig	RS(T), 6-char grid square	<a href="http://nrau.net">nrau.net</a>
4	2000	4 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>
5	0100	5 0130	See rules	NCCC FT4 Sprint	Dig	4-char grid square	<a href="http://www.ncccsprint.com">www.ncccsprint.com</a>
5	0145	5 0215	3.5-28	Weekly RTTY Test	Dig	Name, SPC	<a href="http://radiosport.world/wrt.html">radiosport.world/wrt.html</a>
5	2200	7 1600	1.8	ARRL 160-Meter Contest	CW	W/V/E: RST, ARRL/RAC Section; DX: RST	<a href="http://www.arrl.org/160-meter">www.arrl.org/160-meter</a>
5	0230	5 0300	See rules	NCCC Sprint	CW	Serial, name, QTH	<a href="http://ncccsprint.com">ncccsprint.com</a>
6	0000	7 2359	3.5-28	Kalbar Contest	Ph	RS, serial	<a href="http://kalbarcontest.com">kalbarcontest.com</a>
6	0600	6 0800	7,14	Wake-Up! QRP Sprint	CW	RST, serial, suffix of previous QSO	<a href="http://qrp.ru/contest/wakeup">qrp.ru/contest/wakeup</a>
6	1200	7 1159	3.5-28	PRO CW Contest	CW	RST, serial, "M" if mbr	<a href="http://proradiocontestclub.com">proradiocontestclub.com</a>
6	1400	7 1359	3.5-14,21	INORC Contest	CW	RST, club, mbr or serial	<a href="http://www.inorc.it">www.inorc.it</a>
6	1800	7 2359	3.5-28	FT Challenge	Dig	Signal report, 4-char grid square	<a href="http://www.rttycontesting.com">www.rttycontesting.com</a>
9	1800	9 1859	3.5	DARC CW-Training Contest	CW	RST, DOK/"NM" or serial	<a href="http://www.darc.de">www.darc.de</a>
10	0130	10 0330	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or pwr	<a href="http://naqcc.info">naqcc.info</a>
12	0100	12 0130	See rules	NCCC FT4 Sprint	Dig	4-char grid square	<a href="http://www.ncccsprint.com">www.ncccsprint.com</a>
12	0145	12 0215	3.5-28	Weekly RTTY Test	Dig	Name, SPC	<a href="http://radiosport.world/wrt.html">radiosport.world/wrt.html</a>
12	0230	12 0300	See rules	NCCC Sprint	CW	Serial, name, QTH	<a href="http://ncccsprint.com">ncccsprint.com</a>
13	0000	14 2359	28	ARRL 10-Meter Contest	CW Ph	RST, state/province or serial	<a href="http://www.arrl.org/10-meter">www.arrl.org/10-meter</a>
13	0000	15 2359	1.8-7	PODXS 070 Club Triple Play Low Band Sprint	Dig	RST, SPC	<a href="http://www.podxs070.com">www.podxs070.com</a>
17	0130	17 0330	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or pwr	<a href="http://naqcc.info">naqcc.info</a>
18	0000	19 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>
18	1900	18 2000	3.5-14	NTC QSO Party	CW	Max 25 WPM; RST, name, mbr or "NM"	<a href="http://pi4ntc.nl">pi4ntc.nl</a>
19	0100	19 0130	See rules	NCCC FT4 Sprint	Dig	4-char grid square	<a href="http://www.ncccsprint.com">www.ncccsprint.com</a>
19	0145	19 0215	3.5-28	Weekly RTTY Test	Dig	Name, SPC	<a href="http://radiosport.world/wrt.html">radiosport.world/wrt.html</a>
19	0230	19 0300	See rules	NCCC Sprint	CW	Serial, name, QTH	<a href="http://ncccsprint.com">ncccsprint.com</a>
19	1600	19 1700	3.5,7	AGB-Party Contest	CW Ph Dig	Serial, name, QTH	<a href="http://www.ev5agb.com">www.ev5agb.com</a>
20	0000	20 2359	1.8-28,50	Feld Hell Sprint	Dig	RST, mbr, SPC, grid	<a href="http://sites.google.com/site/feldhellclub">sites.google.com/site/feldhellclub</a>
20	0000	20 2359	3.5-28	OK DX RTTY Contest	Dig	RST, CQ zone	<a href="http://okrtty.crk.cz">okrtty.crk.cz</a>
20	0000	20 2359	1.8-28,50,144	RAC Winter Contest	CW Ph	RS(T), province/territory, or serial	<a href="http://www.rac.ca">www.rac.ca</a>
20	1400	21 1359	1.8-28	Croatian DX Contest	CW Ph	RS(T), 9A county or ITU zone	<a href="http://www.hamradio.hr">www.hamradio.hr</a>
21	1800	21 2359	3.5-28	ARRL Rookie Roundup, CW	CW	Name, 2-digit year first licensed, SPC	<a href="http://www.arrl.org/rookie-roundup">www.arrl.org/rookie-roundup</a>
21	2300	22 0100	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or pwr	<a href="http://qrptest.com">qrptest.com</a>
24	0000	24 0200	1.8-28,50	SKCC Sprint	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
26	0100	26 0130	See rules	NCCC FT4 Sprint	Dig	4-char grid square	<a href="http://www.ncccsprint.com">www.ncccsprint.com</a>
26	0145	26 0215	3.5-28	Weekly RTTY Test	Dig	Name, SPC	<a href="http://radiosport.world/wrt.html">radiosport.world/wrt.html</a>
26	0230	26 0300	See rules	NCCC Sprint	CW	Serial, name, QTH	<a href="http://ncccsprint.com">ncccsprint.com</a>
26	0830	26 1059	3.5,7	DARC Christmas Contest	CW Ph	RS(T), DOK or "NM," serial	<a href="http://www.darc.de">www.darc.de</a>
27	1500	28 1500	1.8	Stew Perry Topband Challenge	CW	4-char grid square	<a href="http://www.kkn.net/stew">www.kkn.net/stew</a>
27	1500	28 1500	3.5-14	Original QRP Contest	CW Ph	RST, serial, pwr category	<a href="http://www.qrpcc.de">www.qrpcc.de</a>
28	0000	28 1159	3.5-28	RAEM Contest	CW	See rules	<a href="http://raem.srr.ru">raem.srr.ru</a>
29	1000	29 2159	3.5-28	YOTA Contest	CW Ph	RS(T), age (avg age for multi-ops)	<a href="http://yotacontest.mrasz.org">yotacontest.mrasz.org</a>
29	1300	29 1400	1.8-28	QCX Challenge	CW	RST, name, SPC, rig	<a href="http://www.qrp-labs.com">www.qrp-labs.com</a>
29	1900	29 2000	1.8-28	QCX Challenge	CW	RST, name, SPC, rig	<a href="http://www.qrp-labs.com">www.qrp-labs.com</a>
30	0300	30 0400	1.8-28	QCX Challenge	CW	RST, name, SPC, rig	<a href="http://www.qrp-labs.com">www.qrp-labs.com</a>
31	0900	31 2359	3.5,7,28	Bogor Old and New Contest	Ph	RS, age	<a href="http://contest.orari-bogor.org">contest.orari-bogor.org</a>