

THE eQRM

DECEMBER 2024



Merry Christmas

2 Corinthians 9:15

The BVARA in Beaver County Pennsylvania

Beaver Valley Amateur Radio Association

W3SGJ



2M Repeater

145.310

PL 131.8



On the Cover: The BVARA wishes you and yours a very Merry Christmas.

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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).

2024

Dec 07 Club Christmas Party

2025

Jan 09

Feb 13

Mar 13

Apr 10

May 08

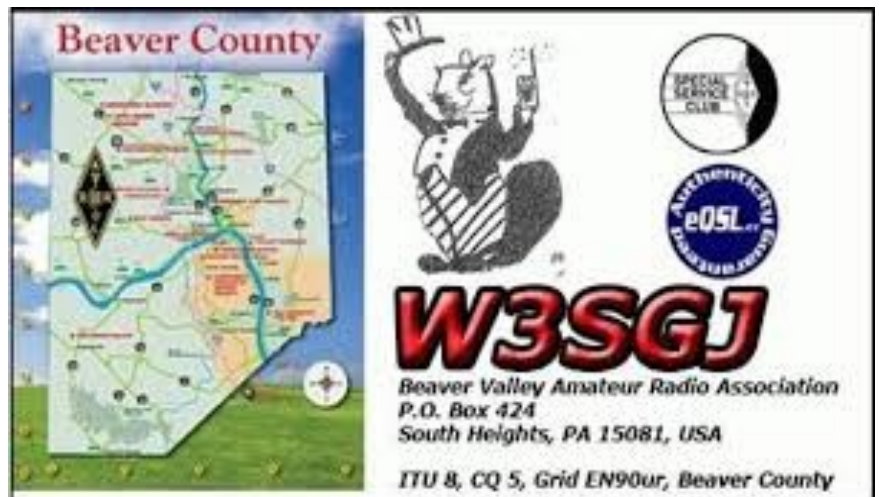
Jun 12

Jul 10

Aug Corn Roast

Sep 11

Oct 09



This Month

This Month:

December:

Our BVARA tradition of taking pause in December to get together with spouses and significant others to help celebrate the Christmas season has occurred for as long as records of our club activities have been taken. It is also time to welcome in our club elected officers for the new year and to celebrate our newly chosen 2024 BVARA Ham of the Year. A voluntary gift exchange follows with a few surprises sure to be expected.

In January, an initial presentation on NanoVNA devices is planned. These devices are significantly more affordable than the antenna analyzers that we looked at earlier this year. With a much wider frequency range and more precise calibration procedures, significant accuracy over the chosen frequency range can be easily obtained. Some possible topics might 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 VNA
- 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 current where you want it to go
- Other topics that may be investigated

I look forward to 2025, the possible peak of the sunspot cycle, and newer technology that always emerges with our exciting hobby. I hope to see you all at our upcoming Christmas Dinner on December 7th.

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

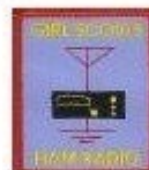
The BVARA meets every Thursday at the Freedom Square Diner in Center Township, just to the right of the Cinemark Center Township Marketplace at 09:30 AM. All radio amateurs and those interested in amateur radio are encouraged to come join us at our Thursday morning breakfast.



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)

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:

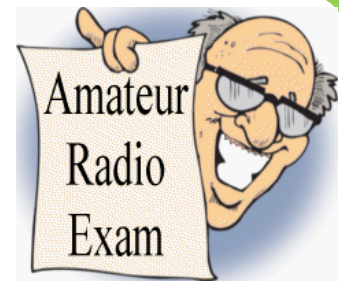
1. 2 forms of I.D. - one MUST be a photo I.D.
2. A pencil AND a pen with blue or black ink.
3. The original AND a photocopy of any valid ham license.
4. The original AND a photocopy of any C.S.C.E.
5. The test fee of \$15 - cash only.
6. Your FRN Number. (free from the FCC, call for details)



New License and Upgrades

BVARA VE Testing

Testing this Month :



November 2024 VE Test Session Results

Our November VE Test Session had three candidates, who achieved their Technician, General, or Extra license class. 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 9th, 2025.

Congratulations to:

Bob Karcher, KD3ADI, Technician, Monaca, PA
Brad Herr, KC3ZXG, General, Beaver Falls, PA
Bruce Vecchioni, KT4ZM, Extra, St Augustine, FL

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	_____
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!

Okay, I am waiting the best I can!



**Hurry up I want to attend
some hamfests.**

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

Of Interest to All

2024 Annual VE Test Session Results

During 2024, our VE Team offered 10 sessions for people to either obtain an amateur radio license or to upgrade their license class through the FCC-defined testing process. The dates for these sessions occur on the second Thursday of each month if a club meeting is scheduled. August has traditionally been scheduled as our Annual Corn Roast. In December, with so many other activities, we have scheduled a Christmas Dinner earlier in the month in lieu of a club meeting.

Testing was conducted at our normal location at the Beaver County Emergency Services Center in Ambridge, PA throughout 2024. One of the months had no candidates, but we were prepared to offer testing if we were contacted by any candidates.

Each December, our schedule of testing for the next year is submitted to the American Radio Relay League (ARRL) for input to their online tool for helping candidates find locations where they may be tested as well as contact information. This online tool has been very helpful to many candidates who choose to use our volunteer testing services.

Below is a table that summarizes our testing activity by month and by class of license. Call signs of individuals that were either upgraded or qualified for a new amateur radio license are also shown.

2024 VE Testing Results				
M/Yr	Call Sign	T	G	E Tot
Jan-24	KC3YHD	1	0	0 1
Feb-24	KC3VSB, KC3TMC	0	1	1 2
Mar-24	N3DBM, KC3ROS	0	1	1 2
Apr-24	KC3YYH, N3ZOL	1	0	1 2
May-24	No Candidates	0	0	0 0
Jun-24	KC3TZW, N3ZLQ	0	1	1 2
Jul-24	KC3ZMG, N5ISE, KC3WPW	1	1	1 3
Aug-24	Corn Roast	0	0	0 0
Sep-24	KC3ZTF	1	0	0 1
Oct-24	KC3ZWQ, KC3ZXF, KC3ZXI, KC3ZXG, KC3ZZH	4	1	0 5
Nov-24	KD3ADI, KC3ZXG, KT4ZM	1	1	1 3
Dec-24	Christmas Dinner	0	0	0 0
Totals		9	6	6 21

73 from Rich Soltesz – K3SOM, VE Liaison

Of Interest to All

Announcing The 1st 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 Soltesz – K3SOM, 115 Brooks Dr, Beaver Falls, PA 15010 or:

Electronic log: K3SOM@ARRL.net

Attach Cabrillo file: [call].log



Of Interest to All

Special Events*

Working special event stations is an enjoyable way to help commemorate history.

Below are samples for this month. Many provide a special QSL card or certificate.

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; digital 3.541 3.841 possible. Certificate & QSL. ARCNEM, 338 Clubhouse Rd., Hunt Valley, MD 21031. *Primary operation will be Dec. 1 – 7, with additional operation possible Dec. 8 – 11 as operator availability permits.* www.ww-2.us

Dec. 7, 1800Z – 2100Z, N3TAL, Lanham, MD. American Legion Post 275 Amateur Radio Team. **Pearl Harbor Remembrance Day.** 7.275. QSL. American Legion Post 275 Amateur Radio Team, 8201 Martin Luther King Jr. Hwy., Lanham, MD 20706. n3tal275@gmail.com or www.qrz.com/db/n3tal

Dec. 12 – Dec. 15, 1400Z – 2200Z, WX3MAS, Nazareth, PA. Christmas City Amateur Radio Club. **WX3MAS — Christmas City.** 3.850 7.270 14.265; SSB and FT8. QSL. Delaware-Lehigh ARC, 14 Gracedale Ave., Greystone Building, Nazareth, PA 18064. www.dlarc.club

Dec. 14, 1400Z – 2200Z, K3S, Baltimore, MD. Nuclear Ship *Savannah* Amateur Radio Club. **Ike's UN Atoms for Peace Speech (1953).** 7.1 14.110 21.1 28.1; check spotting networks. QSL. K3LU, 980 Patuxent Rd., Odenton, MD 21113. www.qrz.com/db/k3s

Dec. 17, 1400Z – 2100Z, W8W, Bellbrook, OH. Bellbrook Amateur Radio Club. **Wright Brothers First Flight.** 7.217 14.317 21.317; all bands, all modes. eCertificate. WrightFlight@bellbrookarc.org or www.bellbrookarc.org

*Courtesy American Radio Relay League (ARRL), *QST Magazine*, December 2024

Of Interest to All

Beaver Valley Amateur Radio Association

Annual Christmas Party
Saturday, December 7, 2024
5:00 PM

Rochester Hotel
218 W. Washington St.
Rochester, PA 15074

Cost is \$25 per person for dinner

Menu includes:

Appetizers

Soft drinks

Rigatoni marinara

Chicken Parm

Roast Beef

Roasted vegetables

Dinner rolls

Salad

There is also an optional gift exchange, gifts should be about \$20.

Send checks made out to BVARA by December 1 to:

Pam Spencer, W3PMS

322 Camilla St.

Baden, PA 15005

How to Let Kids Talk with Santa over Ham Radio this Holiday Season.

11/27/2024

Santa Claus will be on the amateur radio airwaves again this year.

The 3.916 Santa Net will be on the air every night at 7:00 PM CST from November 29 through December 24. Reserve a spot with Santa by making a pre-net check in. You can check in each night starting at 6:30 PM CST online at www.CQSanta.com.

Santa and Mrs. Claus will also be on the air, together, thanks to special arrangements with the [Cowley \(KS\) County Amateur Radio Club](#). They will be on the air on the 147.000 repeater and the Sunflower Net system, between 10 a.m. and noon on November 30 and beginning at 10 a.m. on December 14 and 21. In addition to the local repeater, the [Sunflower Net](#) offers connection options to Allstar, DMR, Dstar, Echolink, Fusion, Hamshack Hotline, M17, and P25. The club is also setting up a radio link at the local library to talk to Santa.

Also, for the 4th year, Santa has sent Elf Chucky and his team of amateur radio operators to northern Colorado, to help make sure children of all ages can talk to Santa on station NØP from the North Pole. Thanks to the [Longmont Amateur Radio Club](#) and the [Northern Colorado Amateur Radio Club](#), children can get into the holiday spirit by talking to Santa on the radio. Both are ARRL Affiliated Clubs. Get the details on that operation at <https://w0eno.org/santa/>.

***Courtesy American Radio Relay League (ARRL)**

Web Site: Latest News, November 27th 2024

Of Interest to All

FLDIGI Roundtable December 6, 2024 at 8:30pm
WW3AAA 147.135, PL 131.8, 28.120 USB for digital transmission
Mick N3OJP, pyzoham@comcast.net, 724-494-4315

The intent of the Roundtable is to foster growth and use of the FLDIGI software suite. FLDIGI is a keyboard communication mode where you can chat on PSK31, NBEMS Nets for emergency purposes and exchange traffic, messages, file and pictures to other operators and nets. The goal of the Roundtable is to get you on the air and enjoying the highly used digital modes of amateur radio communication.

Everyone is welcome with a valid amateur radio license especially Technician Class as 2 meters is used for voice and 10 meters is used for digital transmissions. The Roundtable is an open discussion as participants contribute their knowledge, tips and practical experience using FLDIGI. I am the moderator but everyone gets a chance to engage, ask questions, transmit and discuss problems so all levels of FLDIGI experience are welcome even if first time. Open conversation is encouraged.

Any questions contact me.

We meet on Friday evenings on the

- WW3AAA 147.135, PL 131.8 repeater at 8:30pm
- Right after ARRL Newsline 8-8:30pm on 146.850 so remember to change frequencies.
- FLDIGI 28.120 USB for digital transmission.
- I will have Discord video in use to share FLDIGI screens
- First session we start from the beginning.
- Perfect for Technician Class and 10 meters right now is active with FLDIGI modes, VARAC, CW and SSB. Once you get FLDIGI in operation with pc and radio all other digital modes ie Winlink, VARAC, FT8.....will function.
- There is no hard agenda but we will get into use of messaging with FLMSG and FLAMP using various forms next year. Otherwise the topics are open so feel free to discuss off topic question. You can join a session at any time as no need to catch up.
- We meet usually into March so if a session is missed there is always next week.
- Winlink Express will be introduced at some point during the months as Winlink is basically HF Internet Email as messages are sent via HF to be read later by recipients. Winlink is going to be used more for Emcomm operations so let's get familiar with it. There are many nets during the week to check in and practice.
- If you do not have a radio with built-in sound card, Signalink, Rigblaster or other sound card device you can still decode FLDIGI. As long as your computer has a microphone and speakers you will be able to code/decode FLDIGI audio tones via AUDIO COUPLING. Not as good as direct sound card but it gets you started.
- Make sure you read this document **What is Fldigi.pdf** as explains how to get started and download FLDIGI software.

Of Interest to All

What is Fldigi ? ¹

- Fast Light Digital modem application
- Free, open source program or application using a computer's sound card and USB ports to perform communication over SSB with different digital modulation technics.
- Dave Freese, W1HKJ, developed the software along with other contributors.

How to Setup FLDIGI

What hardware will you need for FLDIGI? To use FLDIGI you will need :

1. The FLDIGI software,
2. An xml file for your given radio such as IC-7300.xml,
3. A computer,
4. A sound card device : a computer or Signalink or built-in radio, 5. Cabling to connect the radio to the soundcard device and for 6. using the push-to-talk in the radio. 7. Transceiver for the ham bands.

How to Setup FLDIGI First: 1. Download FLDIGI 4.2.05 from www.w1hkj.com

1. Optional software flmsg, flwrap, flrig & flamp can be loaded from www.w1hjk.com.
2. You need a sound card interface. A device such as Signalink or your laptop/desktop computer has a sound card including cables for the audio inout and output.
3. You will also need a cable between the computer and the radio to controller the PPT function for transmitting.
4. The Signalink device cables are wired for the PPT and are specific for a given radio.
5. Other devices such as a usb to serial cable can be used for the PPT function.

Of Interest to All



BVARA

December

Christmas Dinner, Rochester Hotel, December 7th 5 PM

ARRL 160-Meter Contest, CW, December 6th – 8th

ARRL 10-Meter Contest, CW and SSB, December 14th and 15th

POTA, POTA – Dress very warm!

January

Straight Key Night, CW, All authorized bands, January 1st from 0000 – 2359 UTC

Bits and Pieces

Hello all,

First let me say Merry Christmas! I hope this is your happiest Christmas to date. I hope you make great memories for years to come. May your family and friends have a Merry Christmas with you!

The colder weather has made itself known. If you haven't gotten your end of fall outdoor radio chores completed the temps have been brutal. I have been working in them for about four weeks now. As the song goes "baby it's cold outside"! I have had some things to do on the farm that just couldn't wait till warmer weather. I have paid the price. I hope you got your outside radio needs taken care of before this, if not, dress warm...



This is the last eQRM for the 2024 year. I just don't know how time goes so fast anymore. I think Momma was right about "time flies the older you get". I am looking forward to the BVARA Christmas Party. It punctuates the end of the Ham Year for me. I then begin looking forward to next years radio fun. I can hardly wait! Field day, Corn Roast, breakfasts, monthly club meetings, field trips with the BVARA, hamfests, time on the air making new contacts and so much more. Make your plans now to be there with us. Please make suggestions of things to do as a Club too.

I hope to see you at the Christmas Party at five to celebrate the close to another year of radio fun and look forward to enjoying next years radio adventures with you.

Clear on your final, but I will be monitoring.

73 KC3BXC



Radio Sport

Contest Corral

December 2024

Check for updates and a downloadable PDF version online at 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					
3 0100	3 0300	3.5-28	ARS Spartan Sprint	CW	RST, SPC, pwr	ars-qrp.com
3 0100	3 0159	1.8-28,50	Worldwide Sideband Activity Contest	Ph	RS, age group (OM, YL, Youth YL, or Youth)	wwsac.com
4 0230	4 0300	1.8-14,21	Phone Weekly Test	Ph	Name, SPC	www.perluma.com/Phone_Fray_Contest_Rules.pdf
4 1700	4 2100	144	VHF-UHF FT8 Activity Contest	Dig	4-char grid square	www.ft8activity.eu
5 0000	5 0300	1.8	QRP ARCI Topband Sprint	CW	RST, SPC, mbr or pwr	qrparci.org
5 0000	6 0300	7	Walk for the Bacon QRP Contest	CW	Max 13 WPM; RST, SPC, mbr or pwr	qrpcontest.com
5 1800	5 2200	28	NRAU 10m Activity Contest	CW Ph Dig	RS(T), 6-char grid square	nrau.net
5 2000	5 2200	1.8-28,50	SKCC Sprint Europe	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
6 2200	8 1600	1.8	ARRL 160-Meter Contest	CW	W/VE: RST, ARRL/RAC section; DX: RST	www.arrl.org/160-meter
7 0000	8 2359	3.5-28	Kalbar Contest	Ph	RS, serial	kalbarcontest.com
7 0600	7 0800	7,14	Wake-Up! QRP Sprint	CW	RST, serial, suffix of previous QSO	qrp.ru/contest/wakeup
7 1200	8 1159	3.5-28	PRO CW Contest	CW	RST, serial, "M" if mbr	poradiococontestclub.com
7 1400	8 1359	3.5-14,21	INORC Contest	CW	RST, club, mbr or serial	www.inorc.it
7 1800	8 2359	3.5-28	FT Roundup	Dig	RST, SPC or serial	www.rttycontesting.com
8 2000	8 2300	1.8-28	QRP ARCI Holiday Spirits Sprint	CW	RST, SPC, mbr/pwr	qrparci.org
9 0100	9 0300	1.8-28	4 States QRP Group Second Sunday Sprint	CW Ph	RS(T), SPC, mbr or pwr	www.4sqrp.com
10 0100	10 0159	1.8-28,50	Worldwide Sideband Activity Contest	Ph	RS, age group (OM, YL, Youth YL, or Youth)	wwsac.com
11 0130	11 0330	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or pwr	naqcc.info
11 0230	11 0300	1.8-14,21	Phone Weekly Test	Ph	Name, SPC	www.perluma.com/Phone_Fray_Contest_Rules.pdf
11 1700	11 2100	432	VHF-UHF FT8 Activity Contest	Dig	4-char grid square	www.ft8activity.eu
14 0000	15 2359	28	ARRL 10-Meter Contest	CW Ph	RST, state/province or serial	www.arrl.org/10-meter
14 0000	16 2359	1.8-7	PODXS 070 Club Triple Play Low Band Sprint	Dig	RST, SPC	www.podxs070.com
14 0600	15 1800	1.8-28	TRC Digi Contest	Dig	RST, serial, "TRC" if mbr	trcdx.org
14 1200	15 2359	1.8-28,50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
14 1300	15 1300	3.5,7	ARI 40/80 Contest	CW Ph Dig	RS(T), 2-letter province code	www.ari.it
14 1600	15 1559	3.5-28	International Naval Contest	CW Ph	RS(T), club and mbr or serial	www.marac-radio.nl
15 2300	16 0100	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or pwr	qrpcontest.com/pigrun
17 0100	17 0159	1.8-28,50	Worldwide Sideband Activity Contest	Ph	RS, age group (OM, YL, Youth YL, or Youth)	wwsac.com/rules.html
18 0130	18 0330	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or pwr	naqcc.info
18 0230	18 0300	1.8-14,21	Phone Weekly Test	Ph	Name, SPC	www.perluma.com/Phone_Fray_Contest_Rules.pdf
18 1700	18 2100	1.2G	VHF-UHF FT8 Activity Contest	Dig	4-char grid square	www.ft8activity.eu
19 0000	20 0300	14	Walk for the Bacon QRP Contest	CW	Max 13 WPM; RST, SPC, mbr or pwr	qrpcontest.com
19 1900	19 2000	3.5-14	NTC QSO Party	CW	Max 25 WPM; RST, mbr or "NM"	pi4ntc.nl/ntcqp
20 1600	20 1700	3.5,7	AGB-Party Contest	CW Ph Dig	RST, serial, mbr (if mbr)	www.ev5agb.com
21 0000	21 2359	1.8-28,50	Feld Hell Sprint	Dig	RST, mbr, SPC, grid	sites.google.com/site/feldhellclub
21 0000	21 2359	3.5-28	OK DX RTTY Contest	Dig	RST, CQ zone	okrtty.crk.cz
21 1400	22 1400	1.8-28	Croatian DX Contest	CW Ph	RS(T), 9A county or ITU zone	www.hamradio.hr
22 1800	22 2359	3.5-28	ARRL Rookie Roundup, CW	CW	Name, 2-digit year first licensed, SPC	www.arrl.org/rookie-roundup
24 0100	24 0159	1.8-28,50	Worldwide Sideband Activity Contest	Ph	RS, age group (OM, YL, Youth YL, or Youth)	wwsac.com
25 0000	25 0200	1.8-28,50	SKCC Sprint	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
25 0230	25 0300	1.8-14,21	Phone Weekly Test	Ph	Name, SPC	www.perluma.com/Phone_Fray_Contest_Rules.pdf
26 0830	26 1059	3.5,7	DARC Christmas Contest	CW Ph	RS(T), DOK or "NM," serial	www.darc.de
28 0000	28 2359	1.8-28, 50,144	RAC Winter Contest	CW Ph	RS(T), province/territory, or serial	www.rac.ca
28 1500	29 1500	1.8	Stew Perry Topband Challenge	CW	4-char grid square	www.kkn.net/stew
28 1500	29 1500	3.5-14	Original QRP Contest	CW Ph	RST, serial, pwr category	www.qrpcc.de
30 1000	30 2159	3.5-28	YOTA Contest	CW Ph	RS(T), age (avg age for multi-ops)	www.ham-yota.com
30 1300	30 1400	1.8-28	QCX Challenge	CW	RST, name, SPC, rig	www.qrp-labs.com
30 1900	30 2000	1.8-28	QCX Challenge	CW	RST, name, SPC, rig	www.qrp-labs.com
31 0100	31 0159	1.8-28,50	Worldwide Sideband Activity Contest	Ph	RS, age group (OM, YL, Youth YL, or Youth)	wwsac.com
31 0300	31 0400	1.8-28	QCX Challenge	CW	RST, name, SPC, rig	www.qrp-labs.com
31 0900	31 2359	3.5,7,28	Bogor Old and New Contest	Ph	RS, age	contest.orari-bogor.org