

THE eQRM

MAY 2023



The BVARA in Beaver County Pennsylvania

Beaver Valley Amateur Radio Association

W3SGJ

2M Repeater

145.310

PL 131.8



On the Cover: May wild flowers in Western Pennsylvania.
This is a great photo of the Ohio river and one of the many bridges.

Photo by Mark H. Welchley

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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

2022 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.

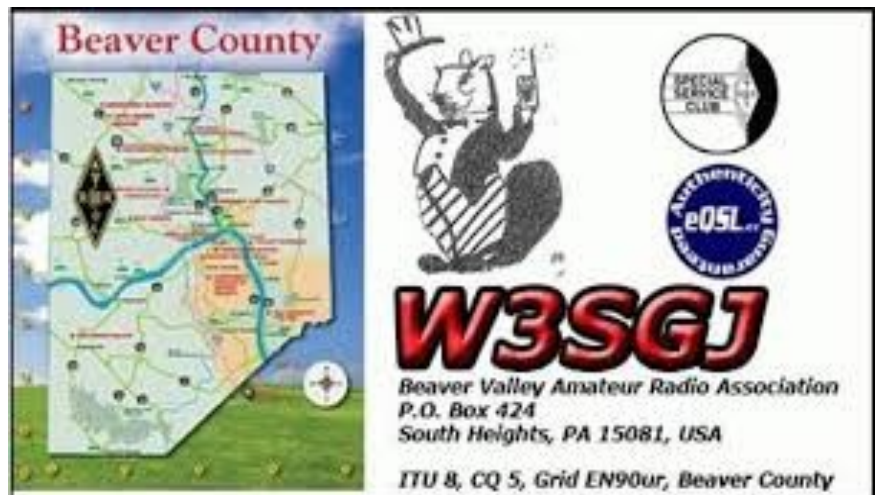
VE testing begins at 5:00 PM.

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).

2023

May 11
Jun 08
Jul 13
Aug 12 Corn Roast
Sep 14
Oct 12
Nov 09
Dec 09 Christmas Party



This Month

This Month:

Speaker:

Rich Soltesz, K3SOM

Topic:

FT8 – Take the Plunge

Including:

Continuing with our BVARA Presentation Series this year, our topic this month deals with a digital mode that is setting the bands on fire. It's called FT8 is included in the latest release of WSJT-X by Joe Taylor, W1JT and his colleagues. During the decline of the 10, 12, and 15-meter bands, hams turned their attention to both FT4 and FT8 to snag solid domestic and DX station contacts on almost every HF band with many stations using only 25 watts or less. The POTA phenomenon has created a niche for these modes to easily enhance contact totals. DXpeditions to rare locales are now including resources to further enhance their coverage with these digital modes.

Because of the faster pace of FT8 and particularly the FT4 digital mode, you'll be in for some lively action as hams call you not just on your frequency but from anywhere within the suggested sub-band for these modes. Once you begin your first response, the software takes over the next several sequences until you decide it's time to send the final '73' transmission. We'll look at the software windows that are unique to operating and review how to select the initial setup parameters to get you started. Once you've tuned up, checked your clock for the required accuracy, and started up the application, you'd better put your seatbelt on because there's going to be lots of operating action.

But wait, there's more! Web-based sites automatically receive reports from you and other hams every 7.5 or 15 seconds that enable you to see who can hear you on a navigable world map background. Logging your contacts and transferring the data to eQSL, LoTW, and your favorite master logging program will also be covered. Setting up the hardware interface between your computer and your transceiver will also be explored. Whether you are a beginner or a veteran ham, bring your ideas and success stories to the meeting because this is one exciting presentation that you won't want to miss.

Rich's Background:

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

More this Month

Weekly

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

Thursday Morning Breakfast
(or you can have lunch)

Come join us!



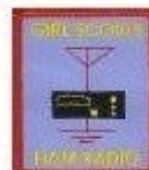
The BVARA meets every Thursday at the Freedom Square Diner in Center Township, just to the right of the Cinemark Center Township Marketplace at 09:30 AM. All radio amateurs and those interested in amateur radio are encouraged to come join us at our Thursday morning breakfast.

**See you
Thursday at**



RACES / ARES

The eQRM Urges All County Hams to Participate.



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 :

April 2023 VE Test Session Results



Our April VE Test Session had five successful candidates, with their achievements of obtaining a license and upgrading a license class. Our electronic filing system once again worked superbly.

Our 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 May 11th, 2023.

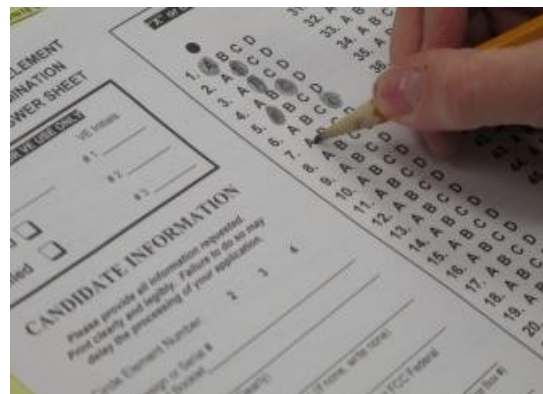
Congratulations to:

Alex Wegrecki, KC3VXT, Coraopolis, PA passed the Technician exam
Dijon Henderson, KC3VXS, South Heights, PA passed the General exam
Pete Brown, KC3VOK, Burgettstown, Pa passed the General exam
Ron Victorelli, KC3TZZ, Coraopolis, PA passed the Extra exam
Andy Zelazny, KC3VOI, Aliquippa, PA passed the Extra exam

A huge thank you to our Volunteer Examiners :

Reg Genola – W3REG,
Tony Pavilonis – K3AHP,
Mick Pyzoha – N3OJP,
Bart Stack – KB3NFM
Bob Winkle – N3AZZ
Frank Witkowski - W3FJW

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	49.00	_____
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

Hamfests & General Announcements

66th Annual

Largest Hamfest in the Tri-State Area



BreezeShooters



HAMFEST / ELECTRONICS / COMPUTER SHOW

Web Site: <http://www.breezeshooters.org>

Email: hamfest@breezeshooters.org

Sunday June 4, 2023

8am-2pm (vendor setup Saturday 2pm-8pm, Sunday 6am-8am)

Butler Farm Show Grounds

625 Evans City Road, Butler, PA 16001

(site of the Hamfest for decades prior to 2016)

- Advance Admission Tickets available at a discount on the website
- Site of the 2023 ARRL WPA Section Convention
- Indoor and Outdoor Flea Market spaces available – email for info
 - Spaces \$15 each(20'x30'); Also limited indoor; email:fleamarket@breezeshooters.org
- Numerous of Educational Forums
 - Including POTA; Digital Modes FT8, FT4; QSL Cards, NWS & Extreme Weather Assist, Plus ...
- Numerous Vendors including Quicksilver Radio, KJI Electronics, and Satellite Headquarter
- VE License Testing for all Amateur and Commercial Classes
 - Starts 8:30 am
- ARRL, DXCC Card Checking and Bureau representatives
- Live Demonstrations of the WEARS EMCOMM Mobile Unit
- BreezeShooters Award Presentations
- Prizes, Prizes, Prizes

Need Info: hamfest@breezeshooters.org

Talk-in will be on the 147.300(+) Repeater- *pl 131.8*

Watch <http://www.breezeshooters.org> for details.

If using a MAPPING APP on your phone, be sure to query "BUTLER FARM SHOW GROUNDS – Butler PA"

MAIN PRIZE DRAWING

1 ST ICOM IC-7610 HF/50MHz All Mode Transceiver Compliments of DX Engineering & ICOM	6 TH HEIL PRAS-EQ Parametric Receive AudioEqualizer
2 ND YAESU FTDX10D HF/50MHz All Mode Transceiver	7 TH COMET 300 Antenna Analyzer
3 RD ICOM IC-705 HF/50MHz/2M/70CM Transceiver	8 TH IMAX-2000 10M Antenna donated by W3TLN
4 TH YAESU FTM-300DR C4FM VHF/UHF Transceiver	9 TH BUDDISTICK portable antenna 40m-10m
5 TH N3ZN KEY Model ZN-9ZX - donated by N3ZN	

Hamfests & General Announcements



Hamvention will be held May 19, 20 and 21,
2023 at the
Greene County Fairgrounds and Expo Center.

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



BVARA members and beyond,

We compiled logs and contacts, We have some pretty good numbers, many people we contacted showed great interest in learning about our club. When I last looked at the W3S special event QRZ.com webpage, our look-up count was over 1,500. I'm not saying we made that many contacts, but it shows that people heard us operating and looked up the call sign to see what our event was about.

I must express **great thanks** to everyone who helped during the entire week. The weekend at Brady's Run certainly could not have happened without all the help in setting up, tearing down and bringing food to the park. We had several visitors, including local and state politicians; also people who were "park walking" stopped to see what were about.

Several of us concluded the week at Rich's, K3SOM, house where we operated four bands, had some great food, camaraderie, and just generally had fun.

I must also recognize the anniversary committee for all the work they put in to making this event happen:

Rich, K3SOM
Jim, KC3IXE
Doug, K3GTX
Tony, K3AHP
Tom, N3XC
Jack, KZ3Z
Pam, W3PMS
David, KC3BXC

Again, **thanks to all** who helped and I hope everyone had fun.

Doug, N4YKQ

Of Interest to All

BVARA Coming Attractions



May

2023 Dayton Hamvention See: <https://hamvention.org/>

More POTA Activations

Little Beaver Creek State Park, OH at the RC Field & North Country Trail

June

BreezeShooters Hamfest – June 4th, Butler Farm Show Grounds

- Nine grand prizes
- Huge indoor and outdoor flea market
- Educational forums
- Multiple vendors
- VE license testing
- ARRL WPA section convention
- BreezeShooters award presentation

Summer ARRL Field Day Activities, Last Full Weekend in June

- Friday – Initial setup and Pot Luck Dinner
- Saturday – Final setup, group photo, and begin making FD contacts
- Sunday – Final FD contacts, tear down and cleanup activities

July

More POTA Activations

August

Corn Roast, Old Economy County Park, August 12th

Possible Trip to GBRT, Cass Railway, POTA in WV, August or September

September

More POTA Activations



Of Interest to All

Brief Summary of our Special Event Station

Below are shown in a brief summary, our BVARA operating results for our week of operating activity using the Special Event Station call sign of W3S. All HF radios were ICOM-7300 Transceivers running 100 watts or less. A Tri-Plexer was connected to a SpiderBeam Yagi at the Bradys Run location and was later used at the QTH of Rich, K3SOM with his SkyHawk Yagi. Dipoles or OCF Dipoles were used on 40m and 80m.

Major locations and dates were:

April 15-16, 2023 at the softball fields at Bradys Run County Park

April 17-21, 2023 at the homes of individual club members

April 22, 2023 at the home of Rich, K3SOM with four stations

Some statistics are summarized as follows:

1009 total contacts

29 States

63 Countries

6 Continents

7 Modes

10 Bands from 80m through 2m excluding only 60m

Bands worked on each continent are shown on this table.

Count	Continent						
Bnd	AF	AS	EU	NA	OC	SA	Total
2				4			4
6				1			1
10			4	45	3	10	62
12				6	1	4	11
15	2	11	16	69		11	109
17	2		17	39	1	2	61
20	1	6	137	196	4	9	353
30			1	5			6
40			10	391			401
80				1			1
Grand Total	5	17	185	757	9	36	1009

Of Interest to All

Modes worked on each band are shown on this table.

Count	Band										
Mode	2	6	10	12	15	17	20	30	40	80	Total
CW			5								5
FM	4										4
FT4			3	3	59	35	217				317
FT8		1	19	8	13	26	60	6	22		155
MFSK32							1				1
PSK31							23		5		28
SSB			35		37		52		374	1	499
Grand Total	4	1	62	11	109	61	353	6	401	1	1009

The results of the BVARA effort with our SES locations were very satisfying to all participants.

Of Interest to All

Where it all started... Since 1952 Hamvention® has been sponsored by Dayton Amateur Radio Association (DARA). For many years it has been the world's largest amateur radio gathering, attracting hams from throughout the globe. About 1950, John Willig, W8ACE, had asked the Dayton Amateur Radio Association to sponsor a HAM Convention but was turned down. John wanted to have a quality affair. Speakers and prizes would be a drawing point. John finally found a champion in Frank Schwab, W8YCP (W8OK), the newly elected president of the club. A meeting was held and the DARA Board allocated \$100 to get started. The first organizational meeting was held in January 1952. The Southwestern Ohio Ham-vention was born. The first committee consisted of: John Willig, W8ACE, General Chairman Al Dinsmore, W8AUN, Arrangements Bob Siff, W8QDI (K4AMG), Prizes and Exhibits Frank Schwab, W8YCP (W8OK), Publicity Bob Montgomery, W8CUJ, Finance Clem Wolford, W8ENH, Program Ellie Haburton, W8GJP (W4ZVW), Women's Committee. The next year the name became "Dayton Hamvention®" and was registered as a trademark. April was determined to be the best time but the Biltmore Hotel, in downtown Dayton was booked. March 22 was the chosen date, causing a short lead time. How far did \$100 go? Not far! A 12" TV was raffled off to help raise funds. The FCC agreed to give license exams and Phil Rand, W1BDM, a pioneer in TVI elimination was on the program. First prize, a Collins 75A2, was purchased locally. Hoping for 300 visitors, the committee was amazed that over 600 showed up! There were 7 exhibitors and 6 forums. The ladies program was successful with a luncheon at the Biltmore and a trip to a local TV station. In 1955 the Awards Program began with the "Amateur of the Year." The Flea Market has grown from 200 to more than 2000 spaces. In 1964 the Hamvention® moved to Hara Arena. Shuttle buses and handicapped parking were added in 1969. In 1973 it became a 2 day event with Sundays added in 1974. The growth of the Dayton Hamvention® can be attributed to caring, energetic people who enjoy being on a winning team.

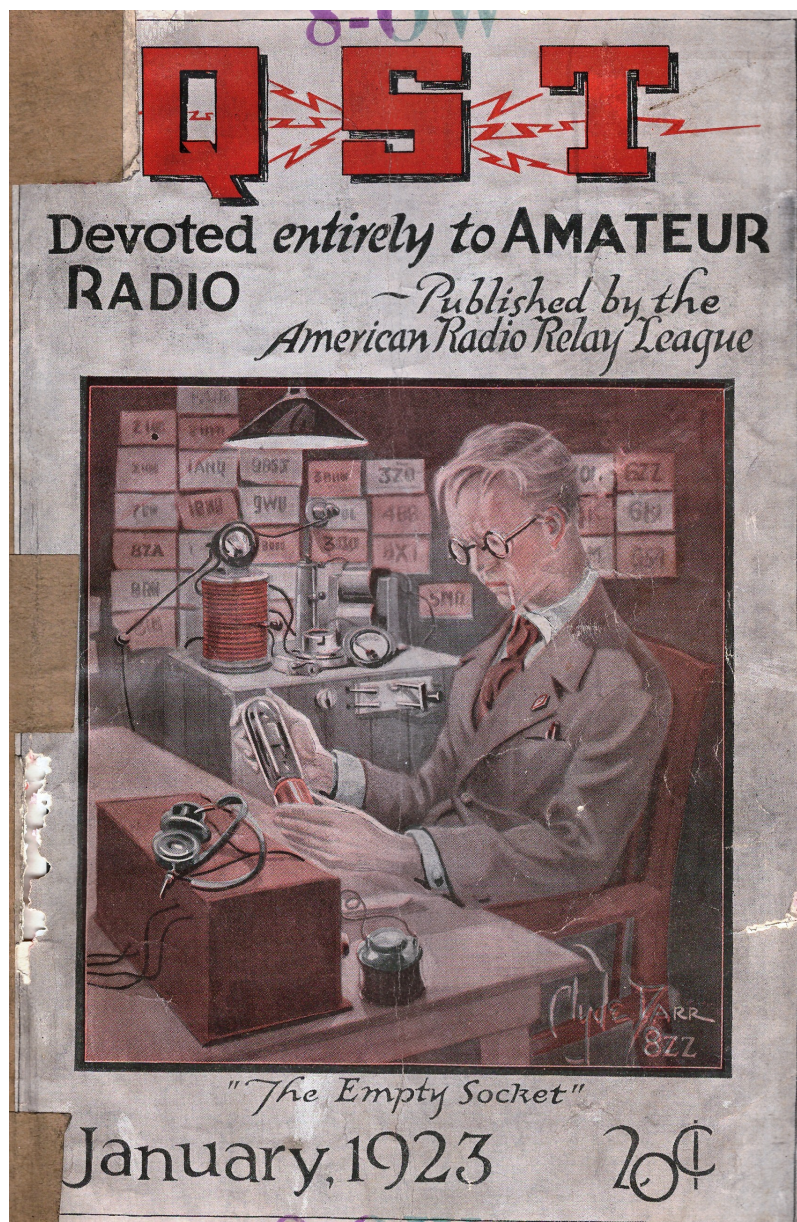


Of Interest to All

100 Years Ago in *QST Magazine*

Beginning with this issue of our *eQRM Newsletter* and in celebration of our 100th Anniversary of the BVARA, two issues of the 1923 *QST Magazine* will be featured. A photo of the cover of each issue will be shown as well as a description of two articles within each issue of the magazine.

The January 1923 issue of *QST Magazine* shows a young ham with a partially completed transmitter in the background with an empty tube socket. In his hands is a potential vacuum tube that he is thoughtfully considering to use in his construction project.



Of Interest to All

An article about Loop Transmission by Leon W. Bishop, 1XP presents the concept of using a loop antenna for local CW transmission on 275 meters (1091 KHz) at a Radio Show in Boston.

Another article described a call for entries for the annual trophy awarded by Secretary Hoover of the Department of Commerce for America's Best All-Around Amateur Station with very specific criteria.

The February 1923 issue shows 'Uncle Sam' congratulating an amateur operator for being The Transatlantic Hero while his YL or XYL fondly displays her pride for his accomplishment.



An article about The Transatlantic Triumph heralds the work done by the radio amateurs of Europe and America in the Third Transatlantic Tests of the American Radio Relay League.

A photo of the transmitter at 1ZE was used to send 14 complete messages over to England one night without repeats. The antenna current on 225 meters (1333 KHz) was 18 Amps!

Rich – K3SOM

Some important ARRL news

April 28, 2023

[ARRL Home Page](#)

Making a Big Decision -- Together

Dear ARRL Affiliated Club,

This Monday, May 1, ARRL will launch a survey for members, encouraging their participation as we consider a dues increase.

The survey will include some short questions about raising dues and modifying the way some membership benefits are bundled. The survey will also include an opportunity for members to share their feedback.

The participation of every member is important. Please encourage all the ARRL members in your radio club to complete the survey in May.

The survey will open on May 1 at www.arrl.org/take-dues-survey. This is a member-only page. Members need to be logged into the ARRL website to take the survey. Members who are not logged in may select the Login button on the top of the web page, and they will be prompted to enter their ARRL website username and password. If they have not logged in since April 2022, they should use these [Login Instructions](#).

Thank you in advance for urging all ARRL members to complete the survey.

73

Mike Walters, W8ZY
ARRL Field Services Manager

PS: this message was sent to club Presidents, Secretaries, Newsletter Editors, and Contact Persons. We're grateful for all you do to help keep your club members informed and engaged.

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ARRL, The National Association for Amateur Radio®
225 Main Street, Newington CT, 06111-1400 USA
860-594-0200

www.arrl.org

Bits and Pieces

Hello all,

Where did the month of April go? It seems to have passed by so fast. There was so much happening with our Club. The one hundredth year celebrations were just one of our events. This month promises to be very busy too! The BreezeShooters Hamfest at the Butler Farm Show Grounds is coming. It has been a while...Covid sure messed that up. But this year's BreezeShooters Hamfest is a go! Be sure to attend, you will be kicking yourself if you miss this one. It is so close to most of us. It's a short drive north....



The Dayton Hamvention is this month too! Hamvention is May 19, 20 and 21.

Are you an experienced radio operator or someone just interested? Field Day is 24-25 June. This is my favorite ham event! I can't wait to see everyone there. I love being part of the excitement. There is always a buzz of activity at the Economy Park during our Field Day Club event. All are invited to attend. Come, be our guest! I hope to see you at one of these events, at least.

We will be issuing a special 100th Year Anniversary Edition of the eQRM later this month, watch for it!

If you don't know, you should know that I am always telling you to enjoy our hobby SAFELY! Please plan every detail of your radio hobby with safety as your main objective. If you have any doubts... STOP! Ask for help, maybe get some advice, choose a different day, or re-plan your project for a safer outcome.

Please enjoy our hobby and be safe.

Clear on your final, but I will be monitoring.

73 KC3BXC



Radio Sport

Contest Corral

May 2023

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 Date-Time	Start - Finish Date-Time	Bands	Contest Name	Mode	Exchange	Sponsor's Website
1 0000	1 0100	1.8-28	K1USN Slow Speed Test	CW	Name, SPC; Max 20 WPM	www.k1usn.com/sst.html
1 1300	1 1900	3.5-28	AGCW QRP/QRP Party	CW	RST, serial, class (A/B)	www.agcw.de/contest/qrp-qrp
1 1630	1 1729	3.5,7	OK1WC Memorial (MWC)	CW	RST, serial	memorial-ok1wc.cz
2 0100	2 0159	1.8-28,50	Worldwide Sideband Activity Contest	Ph	RS, age (OM/YL/Youth)	wwsac.com/rules.html
2 0100	2 0300	3.5-28	ARS Spartan Sprint	CW	RST, SPC, pwr	arsqrq.blogspot.com
3 1300	3 1400	1.8-28	CWops Test (CWT)	CW	Name, mbr or SPC	cwops.org/cwops-tests
3 1700	3 2100	144	VHF-UHF FT8 Activity Contest	Dig	4-char grid	www.ft8activity.eu/index.php/en
4 0000	5 0300	7	Walk for the Bacon QRP Contest	CW	RST, SPC, name, mbr or pwr; max 13 WPM	qrptest.com/pigwalk40
4 1700	4 2100	28	NRAU 10m Activity Contest	CW Ph Dig	RS(T), 6-char grid	nrau.net/nrau-contests-in-general
4 2000	4 2200	1.8-28,50	SKCC Sprint Europe	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
4 2300	5 0300	All, no WARC	MIE 33 Contest	CW Ph	RS(T), age	www.ztv.ne.jp/isoda/33
5 0145	5 0215	1.8-21	NCCC RTTY Sprint	Dig	Serial, name, QTH	ncccsprint.com/rules.html
5 0230	5 0300	1.8-21	NCCC Sprint	CW	Serial, name, QTH	ncccsprint.com/rules.html
5 2000	5 2100	1.8-28	K1USN Slow Speed Test	CW	Name, SPC; max 20 WPM	www.k1usn.com/sst.html
6 0001	7 2359	28	10-10 Int'l Spring Contest, CW	CW	Name, mbr or "none," SPC	www.ten-ten.org
6 0300	6 0859	3.5-28	RCC Cup	CW Ph	RS(T), mbr or ITU zone	rcccup.ru
6 0800	6 1400	All above 902	Microwave Spring Sprint	All	6-char grid	sites.google.com/site/springvhfupsprints
6 1200	7 1159	3.5-28	ARI International DX Contest	CW Ph Dig	RS(T), 2-letter province or serial	www.ari.it
6 1200	7 1200	3.5-28, 144	F9AA Cup, Digi	Dig	RST, serial	www.site.urc.asso.fr
6 1300	7 0700	1.8-28	7th Call Area QSO Party	CW Ph Dig	RS(T), 5-ltr state/county code or SPC	7qp.org
6 1500	7 0300	1.8-28	Indiana QSO Party	CW Ph	RS(T), IN county or SPC	www.hdxcc.org/inqp
6 1700	7 2359	1.8-28, VHF	Delaware QSO Party	Ph Dig	RS(T), DE county or SPC	www.fsarc.org
6 2000	7 2359	3.5-28	New England QSO Party	CW Ph Dig	RS(T), New England county/state or SPC	neqp.org/rules
7 1000	7 1400	7	WAB 7 MHz Phone	Ph	RS, serial, WAB square or SPC	wab.internip.net/Contests.php
8 1900	8 2030	3.5	RSGB 80m Club Champ, SSB	Ph	RS, serial	www.rsgbcc.org/hf
10 1700	10 2100	432	VHF-UHF FT8 Activity Contest	Dig	4-char grid	www.ft8activity.eu/index.php/en
11 1900	11 2000	3.5,7	EACW Meeting	CW	RST, mbr, name, EA province or country	www.eacwspain.es/eacwmeeting
13 1200	14 1159	1.8-28	CQ-M International DX Contest	CW Ph	RS(T), serial	cqm.srr.ru/en/rules
13 1200	14 1200	3.5-28	VOLTA WW RTTY Contest	Dig	RST, serial, CQ zone	www.contestvolta.com/rules.pdf
13 1200	14 2359	1.8-28,50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
13 1700	14 0300	7-28	Canadian Prairies QSO Party	CW Ph	RS(T), VE4/5/6 district code or SPC	cpqp.ve6hams.ca
13 2300	14 0300	50	50 MHz Spring Sprint	All	4-char grid	sites.google.com/site/springvhfupsprints
15 0000	15 0200	1.8-28	4 States QRP Group 2nd Sun Sprint	CW Ph	RS(T), SPC, mbr or pwr	www.4sqrq.com/SSS/sss_rules.pdf
17 1700	17 2100	1.2G	VHF-UHF FT8 Activity Contest	Dig	4-char grid	www.ft8activity.eu/index.php/en
17 1900	17 2030	3.5	RSGB 80m Club Champ, Data	Dig	RST, serial	www.rsgbcc.org/hf
18 0000	19 0300	14	Walk for the Bacon QRP Contest	CW	RST, SPC, name, mbr or pwr; max 13 WPM	qrptest.com/pigwalk20
18 0030	18 0230	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or pwr	naqcc.info
18 1900	18 2000	3.5-14	NTC QSO Party	CW	RST, mbr or "NM"; max 25 WPM	pi4ntc.nl/ntcqp
20 0300	21 0900	50-1296	SARL VHF/UHF Digital Contest	Dig	RST, 6-char grid	www.sarl.org.za
20 0600	20 2100	3.5-28	UN DX Contest	CW Ph	RS(T), Kazakhstan district code or serial	undxc.kz/rules-eng
20 0800	21 1100	3.5	NZART Sangster Shield Contest	CW	RST, serial, branch no. or serial	www.nzart.org.nz/activities
20 1200	21 1200	1.8-28	His Maj. King of Spain Contest, CW	CW	RST, EA province or serial	concursos.ure.es/en
20 1200	21 1200	3.5-28	EU PSK DX Contest	Dig	RST, EU area or serial	eupsk.club
20 1400	21 0200	1.8-144	Arkansas QSO Party	CW Ph Dig	RS(T), AR county or SPC	www.arkqp.com
20 1600	20 2159	1.8-28,50	Feld Hell Sprint	Dig	See rules	sites.google.com/site/feldhellclub
21 2300	22 0100	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or pwr	qrptest.com/pigrun
22 0800	22 1959	3.5-28	YOTA Contest	CW Ph	RS(T), age	www.ham-yota.com/contest
22 1900	22 2030	3.5-14	RSGB FT4 Contest	Dig	4-char grid	www.rsgbcc.org/hf
24 0000	24 0200	1.8-28,50	SKCC Sprint	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
25 1900	25 2030	3.5	RSGB 80m Club Champ, CW	CW	RST, serial	www.rsgbcc.org/hf