

THE eQRM

FEBRUARY 2023

**Want to know more about Amateur Radio?
Come join us!**



The BVARA in Beaver County Pennsylvania

Beaver Valley Amateur Radio Association

W3SGJ

2M Repeater

145.310

PL 131.8



On the Cover: Are interesting in Amateur Radio? We here at the Beaver Valley Area Radio Association encourage you to read our monthly newsletter, attend one of our functions and attend a Club meeting with us. We have been around for 100 Years. Come have some fun and learn about Ham Radio with our group!

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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

The eQRM is a publication of the Beaver Valley Amateur Radio Association (BVARA) and is Copyright 2010 - 2023. All material presented in this publication is not necessarily the views of the American Radio Relay League (ARRL), BVARA, or members of the said organizations. If you would like to contact the editor of the eQRM, please email David at kc3bxc.73@gmail.com. Please visit us online at www.W3SGJ.org. To subscribe to our newsletter, please visit W3SGJ.org/newsletter.php

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

Feb 09

Mar 09

Apr 13

May 11

Jun 08

Jul 13

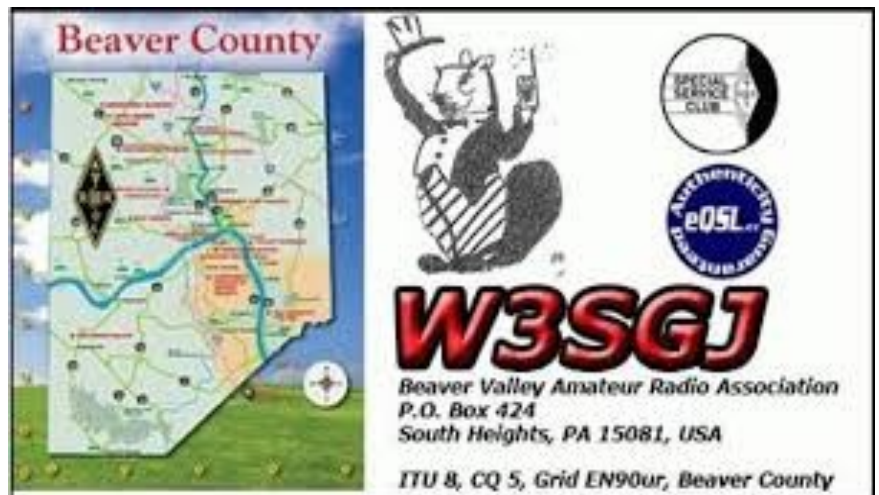
Aug 12 Corn Roast

Sep 14

Oct 12

Nov 09

Dec 09 Christmas Party



This Month



This Month:

Speaker:

Fred McMullen, NOAA Pittsburgh Weather Service Office

Topic:

Western Pennsylvania Weather

Including:

Role of Hams
Skywarn
The 'Beaver County Weather Split' Anomaly

Fred's Background:

Fred McMullen
Warning Coordination Meteorologist
National Weather Service Pittsburgh
National Oceanic and Atmospheric Administration (NOAA)



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!



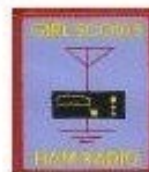
The BVARA meets every Thursday at the Freedom Square Diner in Center Township, just to the right of the Cinemark Center Township Marketplace at 09:30 AM. All radio amateurs and those interested in amateur radio are encouraged to come join us at our Thursday morning breakfast.

**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 :



January 2023 VE Test Session Results

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

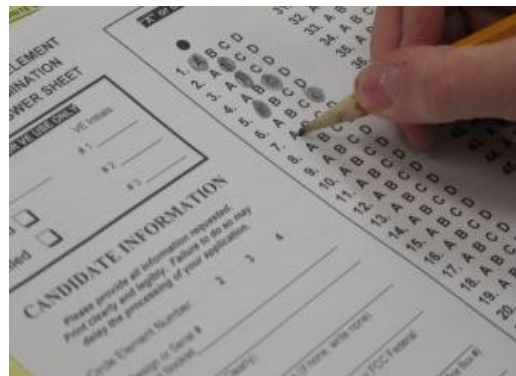
Our testing was conducted at our normal location at the Beaver County Emergency Services Center in Ambridge, PA. Our next VE Test Session will be on February 9th, 2023.

Congratulations to:

Kevin Hilling, KC3VKT, Coraopolis, PA passed the Technician exam
Larry Popeck, N3ZEP, McMurray, PA passed the Extra exam

Reg Genola – W3REG,
Tony Pavilonis – K3AHP,
Mick Pyzoha – N3OJP,
Bart Stack – KB3NFM, and
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



WASHfest 2023

The South Hills Hamfest — Now in our **TWENTY SEVENTH** big year!
Sponsored by the WIRELESS ASSOCIATION OF SOUTH HILLS AMATEUR RADIO CLUB, INC.

Sunday, February 26th, 2023

8:00 AM until 1:00 PM Rain or Shine (or Snow!)

Home Economics Building, South Park

3735 Buffalo Drive, South Park Township, PA 15129

Behind the Allegheny County Police Station on Brownsville Road

Talk-In on 146.955(-) and 443.650(+) 131.8 PL

Donation \$5



Breakfast & Lunch will be available!



FREE Coffee for the entire Hamfest
courtesy of HAM RADIO INSURANCE ASSOCIATES
of Canonsburg, PA



(800) 545-8881

MAIN PRIZES **updated — You've Got to Play to WIN!**



First Prize: Yaesu FT-710 AESS Compact HF+6M 100W SDR Transceiver

Second Prize: Yaesu FT-6000R 50 W Dual Band Mobile

Third Prize: Portable Generator



Additional Hourly Door Prizes! 2 Special Black Box Prizes (Separate Drawing)!

Main Prize tickets are \$2.00 each, 3 for \$5.00, 7 for \$10, 15 for \$20, 40 for \$50, 90 for \$100

All Prizes Subject to last-minute changes

For Table Reservations, or More Information, Please Contact:

Carol Danko KB3GMN at (412) 884-1466 n3sbf@comcast.net

E-mail us directly at washarc@yahoo.com Check out our website too! www.n3sh.org

Please Note: Early Table Reservations must be paid in full on or before January 31st, 2023.

Reservations received after February 1st, 2023 must include payment in full.

Reserve now... we have sold out in advance twelve years running!

Hamfest Table Reservation Form—Please PRINT LEGIBLY ALL INFORMATION

Name: _____ Email: _____

Address: _____ Phone: () _____ - _____

City: _____ State: _____ Zip: _____

Call Sign: _____

Tables WITH Electricity: _____ X \$15.00 = _____

Tables WITHOUT Electricity: _____ X \$12.00 = _____

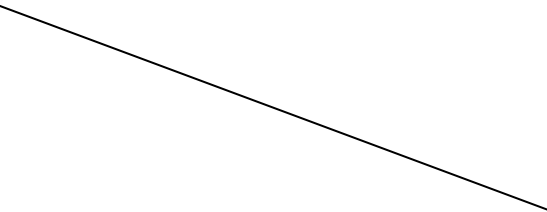
5 Or More Tables w/o: _____ X \$10.00 = _____

Please make all checks payable to:
WIRELESS ASSOCIATION OF SOUTH HILLS
PLEASE MAIL RESERVATION TO:
WASHFEST 2023
c/o CAROL DANKO KB3GMN
4246 Seton Drive
Pittsburgh, PA 15227-1244

We reserve the right to resell any tables not occupied by 8 AM, unless prior arrangements have been made!

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



Of Interest to All



2022 Ham of the Year Award

Doug Lawrence, K3GTX

At the January 2023 BVARA Club Meeting, our Club President Jack Spencer, KZ3Z presented the prestigious Ham of the Year Award to Doug Lawrence, (in the red hat) K3GTX for exemplifying through his actions and practices, the best traditions of The Amateur's Code during 2022 to help enable the success of our club. That Code defines six desirable qualities that include: Considerate, Loyal, Progressive, Friendly, Balanced, and Patriotic that are worthy not only to our club but to all Amateur Radio.



In 2016, Doug, K3GTX also won the Special Achievement Award for his volunteer efforts in promoting the Amateur Radio Hobby. Thank you, Doug for your active role with the BVARA!



Doug Lawrence
K3GTX

We it known by all those present that Doug Lawrence, K3GTX,
is hereby granted the right, honor and privilege to bear the Title of:

Weaver Valley Amateur Radio Association
2022 Ham of the Year

For exemplifying through his actions and practices, the best traditions of The Amateur's Code:

CONSIDERATE...never knowingly operates in such a way as to lessen the pleasure of others.
LOYAL...offers loyalty, encouragement and support to other amateurs, local clubs, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
PROGRESSIVE...with knowledge abreast of science, a well-built and efficient station and operation above reproach.
FRIENDLY...slow and patient operating when requested; friendly advice and counsel to the beginner; kindly assistance, cooperation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
BALANCED...radio is an avocation, never interfering with duties owed to family, job, school or community.
PATRIOTIC...station and skill always ready for service to country and community.

Norm Funick, K3NJT
Secretary

Signed on the Tenth day of
December, in the year of our Lord
Two Thousand and Twenty Two.

Jack Spencer, KZ3Z
President

BVARA Coming Attractions



February

Presentation

Who – Fred McMullan, NOAA Pittsburgh Weather Service Office

Topics – Role of Hams and Skywarn, The ‘Beaver County Weather Split’ Anomaly

When – February 9th BVARA Club Meeting, 7:00 PM

Breezeshooters Groundwave Contest See: <http://breezeshooters.org/ns/groundwave-contest/>

All Contests are Saturday Nights – 8PM to 11PM EST

Saturday February 18th 2023 – CW Contest

Saturday March 4th 2023 – Phone Contest

Saturday March 11th 2023 – Digital Contest (FT8 and PSK31)

March

POTA Activations

Moraine, Raccoon Creek, and Beaver Creek, OH

North Country Trail and State Game Lands

April

BVARA 100th Anniversary Special Event Station and Celebration

W3S for the week of April 15 through April 22, 2023

Operate from the Brady's Run ball fields on April 15 and 16 to open the week

On April 22, Rich, K3SOM, has invited us to operate from his home to close the week

Signup schedule for club members to operate during the week from their homes

May

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

This Just In: Possible Trip to GBRT, Cass Railway, POTA in WV May/June TBD

June

Summer ARRL Field Day at Old Economy County Park



Of Interest to All



Hookstown, PA 15026

Sat March 18 - Sun March 19, 2023

Christine Rial, N3LRG from the Steel City ARC is involved with planning the ham radio (comm support) side of the Rabid Raccoon Race at Raccoon Creek State Park in March. This is the second year she has been involved. The race has gotten a lot bigger since last year.

Christine is asking for some volunteer help from the BVARA Club this year to make it easier for all our volunteer radio operators. She added an additional shift so no one has to work as hard as last year. There are four shifts, she would like two hams at each of the four aid stations plus a net control.

She has been invited by our Club President, Jack Spencer, KZ3Z to come to our February monthly meeting to talk about the race and the need for radio operators. She is planning to check in to our Wednesday Net to also share the need for radio operator support for the race. Please consider helping our fellow Steel City ARC hams.



Any help would be greatly appreciated.
Christine Rial, N3LRG

Christine Rial <crial@rialtech.com>

Of Interest to All

Field Trip to Brian Roberts, K9VKY Station and Memorabilia Fombell, PA January 21, 2023

Brian Roberts, K9VKY has been an amateur radio operator for over 63 years. As a retired commercial airline pilot for many years, he is comfortable with a variety of technologies, but respects and preserves their origins. Over more than 40 years, he has amassed an impressive collection of considerable size that includes classic gear from many world-renowned manufacturers. Some of his receivers go back to the 1920s. Someone in our group counted at least three R-390 receivers that were all in working order and in impeccable condition. For many years, that model provided outstanding performance, high reliability, and unique design features in both military and signals intelligence gathering organizations.



Bob, N3AZZ Tim, KA3JRT Brian, K9VKY, and Doug, N4YKQ view some memorabilia.



Nipper the dog as he listens to 'His Master's Voice' on an Amplion Jr. speaker .



More memorabilia including old tubes, various period pieces.



Beautifully restored 1940 Zenith floor console radio.

Of Interest to All

Brian enjoys operating CW, especially if the conversation centers around 'boat anchor' equipment and stories about collecting, repairing, restoring, and operating these prized units. He occasionally enjoys chasing DX, including many rare DXpeditions that have happened over the years to all parts of the globe. With a two-element five-band Cubical Quad antenna for 10 through 20 meters, an 80 Meter doublet as well as a 30 Meter vertical antenna, Brian is equipped to successfully make global HF contacts typically using 50 watts.



British railway key (c. 1863)
with unique spring placement.

Orphan Annie and
Captain Midnight
memorabilia.



1951 Collins match-
ing transmitter and
receiver station.



Brian, K9VKY shows off
his complete WW-II PRC-1
Spy transmitter/receiver.



Of Interest to All

For our visit, Brian welcomed us and made all of us experience the cordiality that he so easily gave us. We felt that we had been long-time friends with him as he displayed warmth and humor on so many topics. It was a rare experience for us to see such an extensive collection of prized gear. As we broke for lunch with him at a local favorite eatery of his, a feeling of wonder and a yearning to return soon to see more and exchange stories and information rounded out our Field Trip to K9VKY's place.



Complete Collins S/line station with 30S1 amplifier.

Brian, K9VKY at another complete working 1952 Collins station .



Of Interest to All

2023 BVARA Winter Field Day

Winter Field Day (WFD) this year was a very successful event. Propagation conditions, although not quite as good as last week, were very good with many contacts on 10, 15, and 20 meters.

But what was unique this year was the use of a Triplexer with individual band pass filters. With the Triplexer, our three transceivers were able to connect to one Yagi antenna and operate at the same time without any adverse effects. WFD rules limit the power of each station to 100 watts so the playing field for the contest was more competitive.

With a total of about 10 to 12 total club members and visitors, eight club members took turns at the mike or key for a total of 324 contacts on both SSB and CW modes.



Plenty of food with lots of delicious choices to make. Those Lemon Squares and Blueberry Doughnuts were very popular, as well as the Chili, Baked Beans, Pierogi, Italian Meat Balls, Ham, and Hot Dogs. Did I mention Brownies, Assorted Cookies, and a selection of Chips?

Lots of good conversation, new ARRL Sections, and busted pile-ups by our group. Some results are listed below.

Rich - K3SOM

W3SGJ's Contest Summary Report for WFD
Created by N3FJP's Winter Field Day Contest Log
Version 2.8.5 www.n3fjp.com

Total Contacts = 324 (56 Contacts by Doug, N4YKQ will make this higher)
Total Points = 3,530



Of Interest to All

Operating Period: 2023/01/28 19:02 - 2023/01/29 18:58

Total op time (breaks > 30 min deducted): 14:23:24

Total op time (breaks > 60 min deducted): 14:23:24

Avg Qs/Hr (breaks > 30 min deducted): 22.5



Jim KC3IXE, Tony K3AHP
and Doug K3GTX

Total Contacts by Band and Mode:

Band	CW	Phone	Dig	Total	%
80	3	41	0	44	14
40	2	94	0	96	30
20	10	81	0	91	28
15	12	26	0	38	12
10	2	53	0	55	17
Total	29	295	0	324	100

Dan KB3VSP and Mick N3OJP

Total Contacts by Operator:

Operator	Total	%
KC3IXE	113	35
K3SOM	99	31
K3AHP	58	18
N3XC	17	5
K3GTX	15	5
KA3JRT	10	3
N3OJP	8	2
KB3VSP	4	1

Total = 8

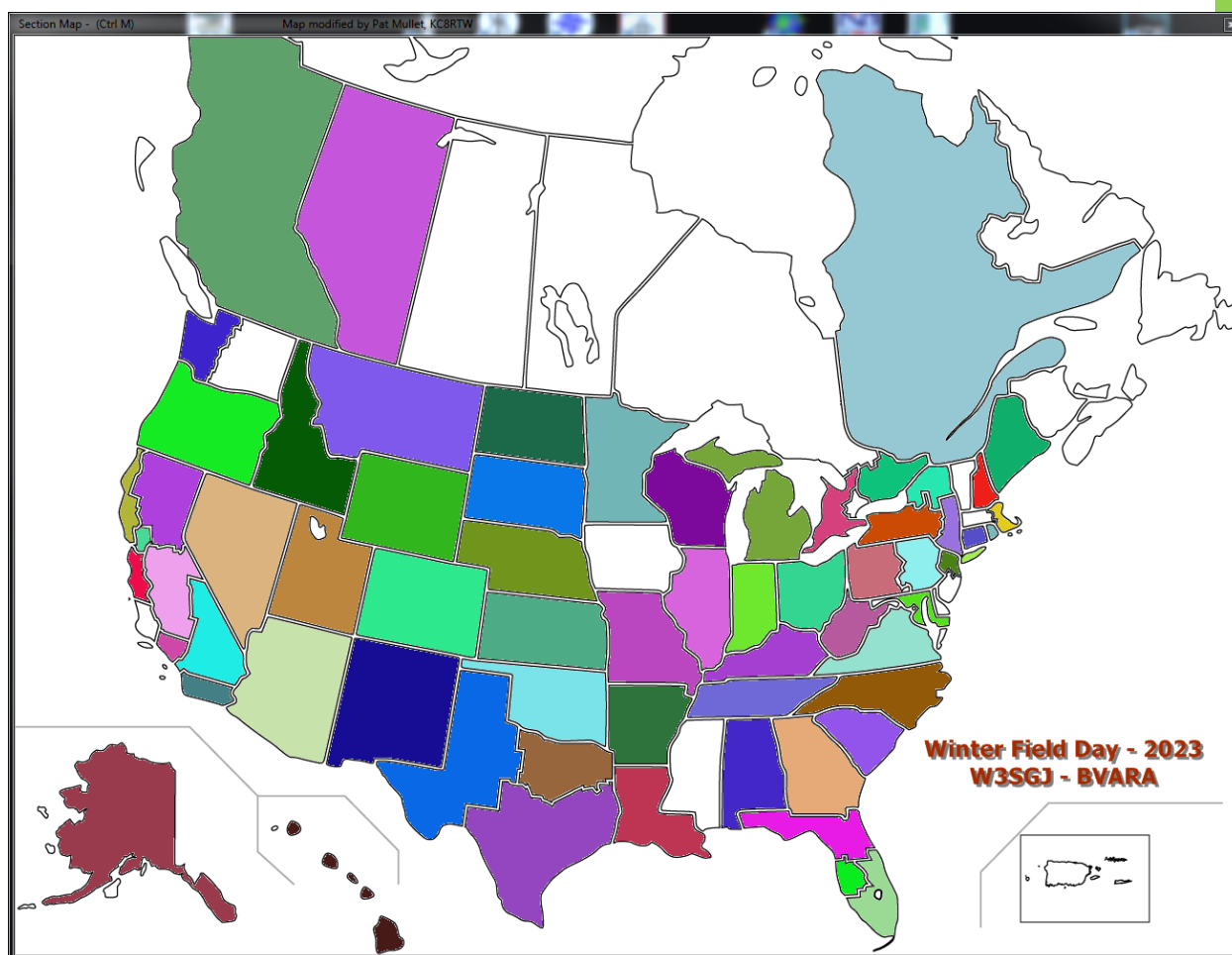


Of Interest to All



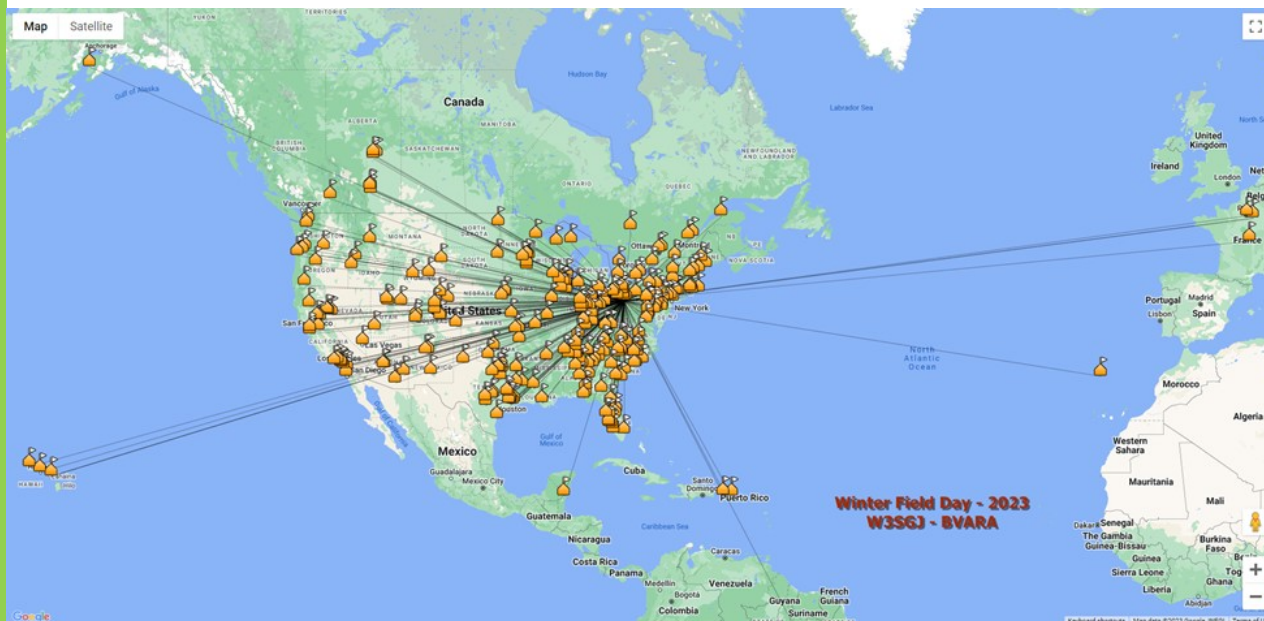
Tom N3XC and Jim KC3IXE

Map below includes 4 contacts in Hawaii, 2 in Alaska, and 8 DX entities



Of Interest to All

Map below marks where stations were located



Jerry N3SVK, Jim KC3IXE and Tony K3AJP

And that was how it ended, some amazed some befuddled.

Bits and Pieces

Hello all,

Here is another full month of activity to report to you! There is so much that has happened and so much that is about to happen. I am so excited by what this new year has and is bringing! Have I used too many exclamation points? Maybe, but I am so excited!

Look on page nine, this will be the first Ham-fest in our area. Are you going to attend? I am hoping to go to it. How about our next Club meeting with our guest speaking about NOAAweather and Skywarn. We will also have Christine Rial, N3LRG from the Steel City ARC asking for some help to provide communications for an up coming foot race. There is so much more!

We have had such a mild winter this year and I am barely able to wait for Spring. It's right around the corner.

I encourage all Club members to invite a non-Ham to come to one of our club meetings, club activities, Thursday breakfasts or at least send them a copy of the eQRM. We have been around for 100 years, lets get more folks invited to enjoy our hobby. Catch the excitement!

Summer will be here before you know it. What radio upgrades do you have planned when the weather breaks? I hope you know by now that I am always the lead cheer leader for SAFETY! Please plan every detail of your projects with safety as your main objective. If you have any doubts... STOP! Ask for help, maybe get some advice, choose a different day, 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

February 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	Date-Time	Bands	Contest Name	Mode	Exchange	Sponsor's Website
Date-Time	Date-Time							
1	2000	1	2100	3.5	UKEICC 80m Contest	Ph	6-char grid square	www.ukelcc.com/80m-rules.php
2	0000	3	0300	7	Walk for the Bacon QRP Contest	CW	13 WPM; RST, SPC, name, mbr or pwr	qrptest.com/pigwalk40
2	1800	2	2200	28	NRAU 10m Activity Contest	CW Ph Dig	RS(T), 6-char grid square	nrrlcontest.no
2	2000	2	2200	1.8-28,50	SKCC Sprint Europe	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
4	0000	5	2359	1.8-28, VHF/UHF	Vermont QSO Party	CW Ph Dig	RS(T), VT county or SPC	www.ranv.org/vtqso.html
4	0001	5	2359	28	10-10 International Winter Contest, SSB	Ph	Name, mbr or "0," SPC	www.ten-ten.org
4	0600	4	1800	1.8-28	EurAsia HF Championship	CW Ph	RS(T), 6-char grid square	www.eurasia-contest.com
4	1200	5	1200	3.5-28, 144	F9AA Cup, CW	CW	RST, serial	www.site.urc.asso.fr
4	1200	5	2359	3.5-28	Mexico RTTY International Contest	Dig	RST, XE state or serial	www.rtty.fmrre.mx
4	1400	4	2359	1.8-28	Minnesota QSO Party	CW Ph Dig	Name, MN county or SPC	www.w0aa.org/mnqp-rules
4	1400	4	2359	1.8-28	FYBO Winter QRP Sprint	CW Ph Dig	RS(T), SPC, name, power, temperature	arizonascqrplions.apps-1and1.com
4	1600	5	2359	1.8-28	British Columbia QSO Party	CW Ph	RS(T), BC district or SPC	www.orcadxc.org/bcqp_rules.html
4	1900	5	1900	1.8-28	European Union DX Contest	CW Ph	RS(T), EU union region or ITU zone	www.eudx-contest.com/rules
4	2300	5	0300	3.5-14	North American Sprint, CW	CW	Other's call, your call, serial, name, SPC	ncjweb.com/Sprint-Rules.pdf
6	1630	6	1729	3.5,7	OK1WC Memorial (MWC)	CW	RST, serial	memorial-ok1wc.cz
6	2000	6	2130	3.5	RSGB 80m Club Championship, SSB	Ph	RS, serial	www.rsgbcc.org/hf
7	0200	7	0400	3.5-28	ARS Spartan Sprint	CW	RST, SPC, power	arsqrp.blogspot.com
8	0130	8	0330	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	naqcc.info
11	0000	12	2359	3.5-28	CQ WW RTTY WPX Contest	Dig	RST, serial	www.cqwxrtty.com/rules.htm
11	1100	11	1300	7,14	Asia-Pacific Spring Sprint, CW	CW	RST, serial	jsfc.org/apsprint/aprule.txt
11	1200	12	1200	1.8	KCJ Topband Contest	CW	RST, JA prefecture or district code	www.kcj-cw.com
11	1200	12	1200	1.8-28	Dutch PACC Contest	CW Ph	RS(T), PA province or serial	pacc.veron.nl
11	1200	12	2359	1.8-28,50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
11	1400	13	0200	All, except WARC	YLRL YL-OM Contest	CW Ph Dig	serial, RS(T), SPC	ylrl.org/wp/yl-om-contest
11	1500	12	1500	1.8-28	OMISS QSO Party	Ph	RS, SPC, mbr (if any)	www.omiss.net/Facelift/qso-party.php
11	1600	11	1800	3.5-28	FISTS Saturday Sprint	CW	RST, SPC, mbr or "0"	fistsna.org/operating.html#sprints
11	1900	11	2300	1.8	RSGB 1.8 MHz Contest	CW	RST, serial, UK district code (if UK)	www.rsgbcc.org/hf
12	1300	12	1700	3.5,7	Balkan HF Contest	CW Ph	RS(T), serial	arabih.ba
13	0100	13	0259	3.5-14	CQC Winter QSO Party	CW	RST, SPC	www.coloradoqrclub.org
13	0100	13	0300	1.8-28	4 States QRP Group Second Sunday Sprint	CW Ph	RS(T), SPC, mbr or power	www.4sqrp.com
13	1300	17	2359	All, except 60,30,17,12	ARRL School Club Roundup	CW Ph Dig	RS(T), class (I/C/S), SPC	www.arrl.org/school-club-roundup
13	1630	13	1729	3.5,7	OK1WC Memorial (MWC)	CW	RST, serial	memorial-ok1wc.cz
14	0000	14	2359	1.8-7	PODXS 070 Club Valentine Sprint	Dig	Name, OM or YL, SPC	www.podxs070.com
15	1700	15	2100	1.2G	VHF-UHF FT8 Activity Contest	Dig	4-char grid square	www.ft8activity.eu/index.php/en
15	1900	15	2030	3.5	AGCW Semi-Automatic Key Evening	CW	RST, serial, 2-dig yr 1st used bug	www.agcw.de/contest/sta
15	2000	15	2130	3.5	RSGB 80m Club Championship, Data	Dig	RST, serial	www.rsgbcc.org/hf
16	0000	17	0300	14	Walk for the Bacon QRP Contest	CW	13 WPM; RST, SPC, name, mbr or pwr	qrptest.com/pigwalk20
18	0000	19	2359	1.8-28	ARRL International DX Contest, CW	CW	RST, SP or power	www.arrl.org/arrl-dx
18	1200	19	1159	1.8-28	Russian PSK WW Contest	Dig	RST, 2 letter oblast or serial	rdclub.ru/russian-ww-psk-contest
18	1900	18	2059	1.8-28	Feld Hell Sprint	Dig	RST, mbr, SPC, grid	sites.google.com/site/feldhellclub
19	2100	19	2300	3.5-28	FISTS Sunday Sprint	CW	RST, SPC, mbr or "0"	fistsna.org/operating.html#sprints
19	2300	20	0100	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or power	qrptest.com/pigrun
20	1630	20	1729	3.5,7	OK1WC Memorial (MWC)	CW	RST, serial	memorial-ok1wc.cz
22	0000	22	0200	1.8-28,50	SKCC Sprint	CW	RST, SPC, name, mbr or "0"	www.skccgroup.com
22	2000	22	2100	3.5	UKEICC 80m Contest	CW	6-char grid square	www.ukelcc.com/80m-rules.php
23	2000	23	2130	3.5	RSGB 80m Club Championship, CW	CW	RST, serial	www.rsgbcc.org/hf
24	2200	26	2200	1.8	CQ 160m Contest, SSB	Ph	RS, SP or CQ zone	www.cq160.com/rules.htm
25	0600	26	1800	3.5-28	REF Contest, SSB	Ph	RS, French department or serial	concours.r-e-f.org/reglements
25	1300	26	1300	3.5-28	UBA DX Contest, CW	CW	RST, ON section or serial	www.uba.be
25	1500	26	0159	1.8-28,50	South Carolina QSO Party	CW Dig Ph	SC: RS(T), SC county or SPC	scqso.com
25	1800	26	0559	3.5-28	North American QSO Party, RTTY	Dig	Name, SPC+DC	www.ncjweb.com
25	1800	26	0559	3.5-28	NA Collegiate Championship, RTTY	Dig	Name, SPC+DC	www.w9smc.com/nacc
26	1400	26	1700	3.5-28	High Speed Club CW Contest	CW	RST, mbr or "NM"	www.highspeedclub.org
26	1500	27	0100	3.5-144	North Carolina QSO Party	CW Ph Dig	NC county or SPC	ncqso-party.org/rules
27	1630	27	1729	3.5,7	OK1WC Memorial (MWC)	CW	RST, serial	memorial-ok1wc.cz
27	2000	27	2130	3.5-14	RSGB FT4 Contest	Dig	4-char grid square	www.rsgbcc.org/hf