



# MEGAHERTZ TIMES



November 2019

W3AI

PO Box 336, Perkasio, PA 18944

## R F Hill Amateur Radio Club 2019

**President:** KC3HHK,  
Jeff Lapin

**Vice Pres.:** KB3HRP,  
Ross Crawford

**Secretary:** WA3YLQ,  
Jim Soete

**Treasurer:** W3LMR,  
Lloyd M Raifsnider III

**News Editor:** W3WTT, Bill Tribley  
bill@tribley.org

### CLUB INFORMATION

**Mailing address:**  
PO Box 336, Perkasio, PA 18944

**Club Repeaters:** 145.31 MHz; input  
144.71 MHz PL 131.8 (2 meters)  
444.75 MHz, input 449.75 MHz PL  
103.5 (70 cm)

**Meetings:** The club meets at 7:30  
PM on the last Thursday  
of the Month

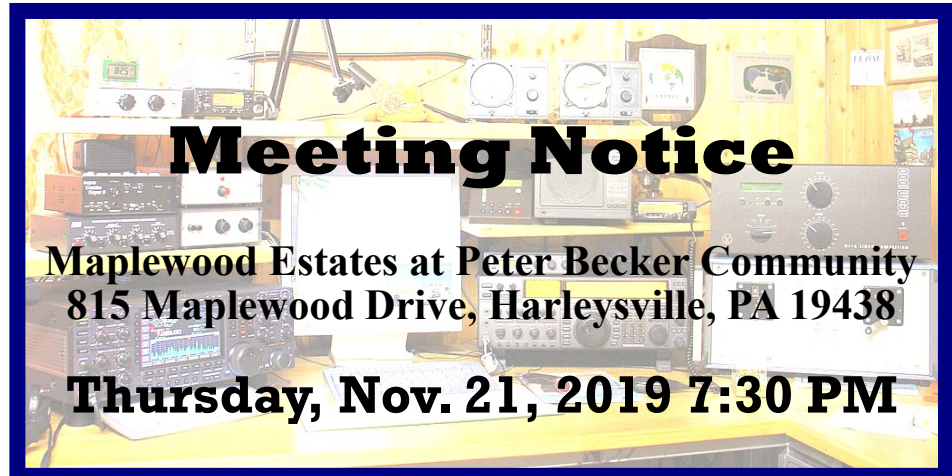
**Web page:** <http://www.rfhillarc.club>

**Email:** rfhillarc@yahoo.com

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**DEADLINE** for article submission is 10  
days before the meeting!  
Send to rfhillarc@yahoo.com



## Membership Renewal

If you haven't renewed yet use the Membership Renewal Form  
attached to this issues' email and  
*submit your form with dues payment today!*

## November Program

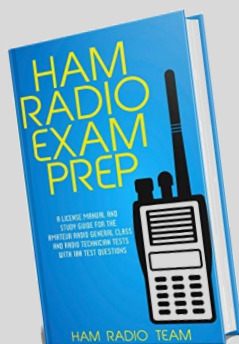
### The National Traffic System

Jim Cottrell, KB3DEN, our SEPPATN Manager will present a program on use of the NTS to send messages far and wide. Jim will cover the message form, precedence, handling instructions and those numbered ARL messages. Join us to have ALL of your traffic handling questions answered!



RF Hill Amateur Radio Club  
W3AI

# VE TESTING



VE testing for Technician,  
General and Extra Class licenses  
is held regularly at the Indian  
Valley Public Library in Telford:

100 E Church Ave.  
Telford, PA 18969



*The next exam will be*

**November 18, 2019**

**Session starts at 6:30 pm sharp**

Bring license or CSCE originals  
and copies if upgrading,  
2 forms of ID (one photo) for new licenses.

To pre-register or for more information

Contact Jim Soete, WA3YLQ  
215-723-7294 eves./weekends.  
wa3ylq@arrl.net

**The fee is \$15.00**

**Pre-registration is appreciated.**

*VE's are always welcome to help with testing.*



## Traffic Nets

**SEPPTN traffic nets** are on Sundays & Wednesdays at 8:00 PM local time at 145.310 MHz (-600). These nets are for anyone who would like to learn how to handle traffic as well as an on the air meeting place for members and future members.

**RF Hill A-R-C Ten Meter AM Net:** 29.005MHz on Sunday evening immediately following the SEPPTN

## Net Control Stations

11/17, 11/20	W3WTT	1/5, 1/8	WA3YLQ
12/1, 12/4	KB3DEN	1/12, 1/15	W3WTT
12/8, 12/11	WA3YLQ	1/19, 1/22	KS3Z
12/15, 12/18	W3WTT	1/26, 1/29	KB3DEN
12/22, 12/25	KS3Z	2/2, 2/5	WA3YLQ
12/29, 1/1	KB3DEN		

Any questions or conflicts, please let me know. If at the last minute, the assigned net control station doesn't show-up, any net control station on frequency should run the net.

Thanks to everyone for your continued support.  
Jim – KB3DEN [KB3DEN@aol.com](mailto:KB3DEN@aol.com)

## AREA NET LISTINGS

SEPPTN Southeastern PA Practice & Traffic Net	Su/W	8 PM	145.31-
EPAEPTN - EPA Emergency Phone/Traffic Net	Daily	6 PM	3.917 +/-
Pennsylvania Traffic Net (CW)	Daily	7,10 PM	3.585
Third Region Net	Daily	4 PM	7.243 (3.917 -alt)
Eastern Area Net (EAN)	Daily	2:30 PM	7.243
Bucks County ARES	W	9 PM	147.090+
Montgomery County ARES	Th	7 PM	146.835- (pl 88.5)
EPA echo link traffic net (EAETN) Echolink AA3RG-R	Th	8 PM	146.640- (pl 82.5)



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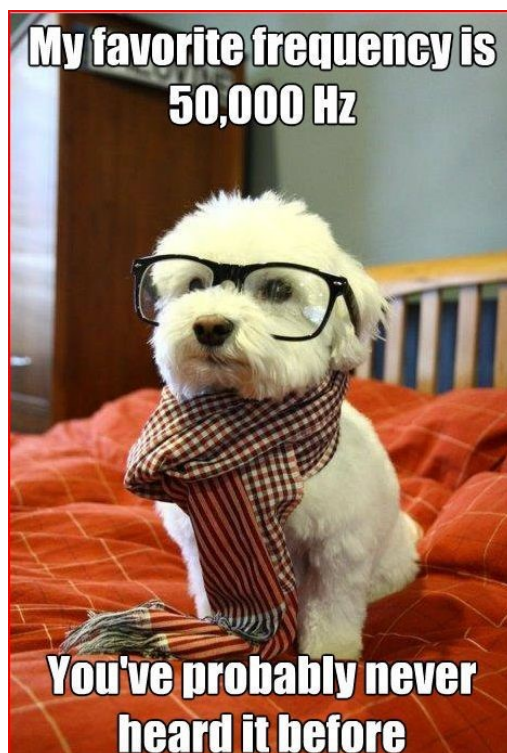


## Pottstown ARC Planning Trip to W1AW

The Pottstown ARC is planning a bus trip to W1AW (Newington, CT) in April or May of 2020. The trip will be scheduled on a M-T-W or Th. Apparently there is not a lot of interest in traveling on a Friday. If you are interested, following is the contact information. Indicate your preferred date(s). The final date will be whatever seems to work for the group. Contact Harry "Wes" Hammerschmidt, N3HWH. 610-474-2337, or e-mail at [hhammer24@comcast.net](mailto:hhammer24@comcast.net). I have no other info on the trip. (WA3YLQ)

## FISH Donations Accepted

At the November and December Club meetings we collect donations for the FISH (Fellowship In Serving Humanity) organization in Perkasie. I encourage you to go to their web site [pennridgefish.org](http://pennridgefish.org) to see their current needs and what this organization does for the Community. Fellow Club Member Bob Nice, N3TZW is a leader in the organization. RF Hill will also give a matching donation at the end of this campaign. (Jim, WA3YLQ)





## Kevin (KW3P) Builds an Unconventional Antenna



I have been having problems with receiving on 20 and 10 meters. I thought that a vertical antenna might help. My son suggested that we take the Diamond HV7A mobile HF antenna off the car and mount it on a piece of metal.

We decided to use the sign we found a few years ago in the attic, which became the ground plane for the antenna. I drilled a 5/8" diameter hole in the center of the sign, and installed a 6" SO239 barrel connector in the hole. I then put the antenna on the top side, and a length of coax on the bottom side. SWR:

10 meters: 1.3 at 28.660 MHz

20 meters: 5.9 at 14.360 MHz

6 meters: 1.37 at 52.860. MHz

Using an external antenna tuner, I should be able to work all of the frequencies on each band. I didn't make any changes to the antenna system from when I took it off the car; I was experimenting to see if the concept would work. Results so far is 1 to 2 S units better using the vertical antenna versus the fan dipole or OCF dipole.





## Photos from Charles KS3Z



October Meeting Officers



Seen at Reading Hamfest



October Meeting Members



KA3K Mast



October Meeting Presentation

# RF Hill ARC Meeting Minutes for October 31, 2019

**Welcome/Call to Order/Pledge to the Flag:** Ross Crawford, KB3HRP, V-P

Roll Call 13 ARO's present

## Officer Reports

**President** Jeff, KC3HHK, was absent. Jim, WA3YLQ, gave Jeff's report. Jeff thanks all members who supported our Hamfest. He also wants to remind members that officer elections will be held in January. Lloyd's (W3LMR) term expires at the end of this year and a Treasurer will be needed. Contact a board member if you would like more information on this position.

Jim, WA3YLQ, announced that due to forecasted bad weather for later this evening, the business meeting would be cut short to allow N2VUZ's presentation

**Vice President** no report

**Secretary** A motion was made by KS3Z to accept the September Club Minutes as published. Seconded by W3Wtt. Motion Carried. WA3YLQ thanked members who had paid their 2020 dues.

**Treasurer** Lloyd, W3LMR, reported that our accounts were in order. A motion to accept the Treasurer's report was made by KW3P, seconded by NI2Q. Motion carried.

## Committee Reports

- **Ve** KS3Z reported that seven candidates appeared at the Hamfest VE Session, Six passed their exams. Thanks to the VE's that assisted.
- **Repeater** No report.
- **Hamfest** WA3YLQ reported that the Hamfest was a success and thanked those who helped with the affair. Thanks to those who return each year to "their posts". Repeat help greatly adds to the stability of the event. Approximately 36% of the membership participated.
- **Auction** No report.
- **Field Day** No report.
- **MHz Times** No report.
- **Nets** Dan, WA3NFV reported on the continued interest in and activity on the Sunday night 10 meter AM net. Thanks to John, N3HGX, for his continued reporting on the reflector. No SEP-PATN report.

**Old Business** None.

**New Business** WA3YLQ asked for a motion to postpone remaining reports and business to the November meeting. So moved by KS3Z, seconded by W3WTT. Motion carried.

**Adjournment** A simple voice vote approved adjournment. Members enjoyed refreshments and moved on to the program.

**Program:** Dave Carroll, N2VUZ, presented a program on **Next Generation Radio Crystals**.

## **Respectfully Submitted:**

Jim Soete, WA3YLQ, Secretary

RF Hill ARC

# NOVEMBER CONTESTS

NCCC RTTY Sprint	0145Z-0215Z, Nov 1	Run for the Bacon QRP Contest	0200Z-0400Z, Nov 18
NCCC Sprint	0230Z-0300Z, Nov 1	NAQCC CW Sprint	0130Z-0330Z, Nov 19
Silent Key Memorial Contest	0600Z-0859Z, Nov 1	Phone Fray	0230Z-0300Z, Nov 20
IPARC Contest, CW	0600Z-1000Z, Nov 2 and 1400Z-1800Z, Nov 2	CWops Mini-CWT Test	1300Z-1400Z, Nov 20 and 1900Z-2000Z, Nov 20 and
Ukrainian DX Contest	1200Z, Nov 2 to 1200Z, Nov 3		0300Z-0400Z, Nov 21
ARRL Sweepstakes Contest, CW	2100Z, Nov 2 to 0300Z, Nov 4	RSGB 80m Autumn Series, SSB	2000Z-2130Z, Nov 20
IPARC Contest, SSB	0600Z-1000Z, Nov 3 and 1400Z-1800Z, Nov 3	NCCC RTTY Sprint	0145Z-0215Z, Nov 22
	0800Z-1200Z, Nov 3	NCCC Sprint	0230Z-0300Z, Nov 22
EANET Sprint	0900Z-1100Z, Nov 3 and	CQ Worldwide DX Contest, CW	0000Z, Nov 23 to 2400Z, Nov 24
High Speed Club CW Contest	1500Z-1700Z, Nov 3	SKCC Sprint	0000Z-0200Z, Nov 27
	2000Z-2059Z, Nov 4	Phone Fray	0230Z-0300Z, Nov 27
RSGB FT4 Contest Series	0200Z-0400Z, Nov 5	CWops Mini-CWT Test	1300Z-1400Z, Nov 27 and 1900Z-2000Z, Nov 27 and
ARS Spartan Sprint	0230Z-0300Z, Nov 6		0300Z-0400Z, Nov 28
Phone Fray	1300Z-1400Z, Nov 6 and 1900Z-2000Z, Nov 6 and	UKEICC 80m Contest	2000Z-2100Z, Nov 27
CWops Mini-CWT Test	0300Z-0400Z, Nov 7	RSGB 80m Autumn Series, CW	2000Z-2130Z, Nov 28
	2000Z-2100Z, Nov 6	NCCC RTTY Sprint	0145Z-0215Z, Nov 29
UKEICC 80m Contest	1800Z-1900Z, Nov 7 (CW) and 1900Z-2000Z, Nov 7 (SSB) and 2000Z-2100Z, Nov 7 (FM) and 2100Z-2200Z, Nov 7 (Dig)	NCCC Sprint	0230Z-0300Z, Nov 29
NRAU 10m Activity Contest	2000Z-2200Z, Nov 7	Russian WW MultiMode Contest	1200Z, Nov 30 to 1159Z, Dec 1
	0145Z-0215Z, Nov 8		
SKCC Sprint Europe	0230Z-0300Z, Nov 8		
NCCC RTTY Sprint	0000Z, Nov 9 to 2359Z, Nov 10		
NCCC Sprint	0000Z, Nov 9 to 2359Z, Nov 10		
WAE DX Contest, RTTY	0001Z, Nov 9 to 2359Z, Nov 10		
PODXS 070 Club Triple Play Low Band Sprint	0700Z, Nov 9 to 1300Z, Nov 10		
11	1000Z, Nov 9 to 1000Z, Nov 10		
10-10 Int. Fall Contest, Digital	1200Z, Nov 9 to 1200Z, Nov 10		
JIDX Phone Contest	1200Z, Nov 9 to 2400Z, Nov 10		
SARL VHF/UHF Analogue Contest	1900Z-2300Z, Nov 9 (CW/Digital)		
OK/OM DX Contest, CW			
SKCC Weekend Sprintathon			
CQ-WE Contest			
and			
	0100Z-0500Z, Nov 10 (Phone)		
and			
	1900Z-2300Z, Nov 10 (Phone)		
and			
	0100Z-0500Z, Nov 11 (CW/		
Digital)			
AWA Bruce Kelley 1929 QSO Party	2300Z, Nov 9 to 2300Z, Nov 10		
and			
	2300Z, Nov 16 to 2300Z, Nov 17		
North American SSB Sprint Contest	0000Z-0400Z, Nov 10		
4 States QRP Group Second Sunday Sprint	0100Z-0300Z, Nov 11		
RSGB 80m Autumn Series, Data	2000Z-2130Z, Nov 11		
Phone Fray	0230Z-0300Z, Nov 13		
CWops Mini-CWT Test	1300Z-1400Z, Nov 13 and 1900Z-2000Z, Nov 13 and 0300Z-0400Z, Nov 14		
	0145Z-0215Z, Nov 15		
NCCC RTTY Sprint	0230Z-0300Z, Nov 15		
NCCC Sprint	1600Z-2200Z, Nov 15		
YO International PSK31 Contest	0000Z, Nov 16 to 2359Z, Nov 17		
ARRL EME Contest	1000Z, Nov 16 to 1000Z, Nov 17		
SARL Field Day Contest	1200Z, Nov 16 to 1200Z, Nov 17		
LZ DX Contest	1600Z-2359Z, Nov 16		
All Austrian 160-Meter Contest	1700Z, Nov 16 to 0100Z, Nov 17		
REF 160-Meter Contest	1900Z-2059Z, Nov 16		
Feld Hell Sprint	1900Z-2300Z, Nov 16		
RSGB 1.8 MHz Contest	2100Z, Nov 16 to 0300Z, Nov 18		
ARRL Sweepstakes Contest, SSB	1300-1500Z, Nov 17 (40m)		
Homebrew and Oldtime Equipment Party			
and	1500-1700Z, Nov 17 (80m)		

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[www.hornucopia.com/contestcal/contestcal.html](http://www.hornucopia.com/contestcal/contestcal.html)



# DECEMBER CONTESTS

ARS Spartan Sprint	0200Z-0400Z, Dec 3	Original QRP Contest	1500Z, Dec 28 to 1500Z, Dec 29
Phone Fray	0230Z-0300Z, Dec 4	Stew Perry Topband Challenge	1500Z, Dec 28 to 1500Z, Dec 29
CWops Mini-CWT Test	1300Z-1400Z, Dec 4 and 1900Z-2000Z, Dec 4 and 0300Z-0400Z, Dec 5	QCX Challenge	1300Z-1400Z, Dec 30 and 1900Z-2000Z, Dec 30 and 0300Z-0400Z, Dec 31
QRP ARCI Topband Sprint	0000Z-0300Z, Dec 5	Bogor Old and New Contest	0900Z-2359Z, Dec 31
NRAU 10m Activity Contest	1800Z-1900Z, Dec 5 (CW) and 1900Z-2000Z, Dec 5 (SSB) and 2000Z-2100Z, Dec 5 (FM) and 2100Z-2200Z, Dec 5 (Dig)		
SKCC Sprint Europe	2000Z-2200Z, Dec 5	Calendar content © Bruce Horn, WA7BNM 1998-2019	
NCCC RTTY Sprint	0145Z-0215Z, Dec 6	Used by permission.	
NCCC Sprint	0230Z-0300Z, Dec 6	<a href="http://www.hornucopia.com/contestcal/contestcal.html">www.hornucopia.com/contestcal/contestcal.html</a>	
ARRL 160-Meter Contest	2200Z, Dec 6 to 1600Z, Dec 8		
UFT Contest	0500Z-0800Z, Dec 7 and 1500Z-1800Z, Dec 7 and 0700Z-1000Z, Dec 8		
Wake-Up! QRP Sprint	0600Z-0629Z, Dec 7 and 0630Z-0659Z, Dec 7 and 0700Z-0729Z, Dec 7 and 0730Z-0800Z, Dec 7		
SKCC Weekend Sprintathon	1200Z, Dec 7 to 2400Z, Dec 8		
PRO CW Contest	1600Z, Dec 7 to 1559Z, Dec 8		
International Naval Contest	1600Z, Dec 7 to 1559Z, Dec 8		
FT8 Roundup	1800Z, Dec 7 to 2359Z, Dec 8		
EPC Ukraine DX Contest	2000Z, Dec 7 to 1959Z, Dec 8		
QRP ARCI Holiday Spirits Homebrew Sprint	2000Z-2300Z, Dec 8		
4 States QRP Group Second Sunday Sprint	0100Z-0300Z, Dec 9		
NAQCC CW Sprint	0130Z-0330Z, Dec 11		
Phone Fray	0230Z-0300Z, Dec 11		
CWops Mini-CWT Test	1300Z-1400Z, Dec 11 and 1900Z-2000Z, Dec 11 and 0300Z-0400Z, Dec 12		
NCCC RTTY Sprint	0145Z-0215Z, Dec 13		
NCCC Sprint	0230Z-0300Z, Dec 13		
ARRL 10-Meter Contest	0000Z, Dec 14 to 2400Z, Dec 15		
PODXS 070 Club Triple Play Low Band Sprint	0000Z, Dec 14 to 2359Z, Dec 16		
TRC Digi Contest	0600Z, Dec 14 to 1800Z, Dec 15		
CQC Great Colorado Snowshoe Run	2100Z-2259Z, Dec 15		
Run for the Bacon QRP Contest	0200Z-0400Z, Dec 16		
NAQCC CW Sprint	0130Z-0330Z, Dec 18		
Phone Fray	0230Z-0300Z, Dec 18		
CWops Mini-CWT Test	1300Z-1400Z, Dec 18 and 1900Z-2000Z, Dec 18 and 0300Z-0400Z, Dec 19		
NCCC RTTY Sprint	0145Z-0215Z, Dec 20		
NCCC Sprint	0230Z-0300Z, Dec 20		
AGB-Party Contest	1600Z-1700Z, Dec 20		
Russian 160-Meter Contest	2000Z-2400Z, Dec 20		
OK DX RTTY Contest	0000Z-2400Z, Dec 21		
Feld Hell Sprint	0000Z-2359Z, Dec 21		
Gedebage CW Contest	1200Z, Dec 21 to 1159Z, Dec 22		
Padang DX Contest	1200Z, Dec 22 to 1159Z, Dec 23		
Croatian CW Contest	1400Z, Dec 21 to 1400Z, Dec 22		
RAEM Contest	0000Z-1159Z, Dec 22		
ARRL Rookie Roundup, CW	1800Z-2359Z, Dec 22		
SKCC Sprint	0000Z-0200Z, Dec 25		
Phone Fray	0230Z-0300Z, Dec 25		
CWops Mini-CWT Test	1300Z-1400Z, Dec 25 and 1900Z-2000Z, Dec 25 and 0300Z-0400Z, Dec 26		
DARC Christmas Contest	0830Z-1059Z, Dec 26		
NCCC RTTY Sprint	0145Z-0215Z, Dec 27		
NCCC Sprint	0230Z-0300Z, Dec 27		
RAC Winter Contest	0000Z-2359Z, Dec 28		



# JANUARY CONTESTS

AGB New Year Snowball Contest	0000Z-0100Z, Jan 1	North American QSO Party, SSB	1800Z, Jan 18 to 0559Z, Jan 19
QRP Fox Hunt	0200Z-0330Z, Jan 1	NA Collegiate Championship, SSB	1800Z, Jan 18 to 0559Z, Jan 19
Phone Fray	0230Z-0300Z, Jan 1	ARRL January VHF Contest	1900Z, Jan 18 to 0359Z, Jan 20
SARTG New Year RTTY Contest	0800Z-1100Z, Jan 1	WAB 1.8 MHz Phone/CW	1900Z-2300Z, Jan 18
AGCW Happy New Year Contest	0900Z-1200Z, Jan 1	Feld Hell Sprint	2000Z-2359Z, Jan 18 (EU-AF)
CWops Mini-CWT Test	1300Z-1400Z, Jan 1 and 1900Z-2000Z, Jan 1 and 0300Z-0400Z, Jan 2	and (ENA-ESA) and	2300Z, Jan 18 to 0259Z, Jan 19
AGCW VHF/UHF Contest	1400Z-1700Z, Jan 1 (144) and 1700Z-1800Z, Jan 1 (432)	AS)	0200Z-0559Z, Jan 19 (WNA-OC-
QRP ARCI New Years Sprint	1500Z-1800Z, Jan 1	Run for the Bacon QRP Contest	0200Z-0400Z, Jan 20
UKEICC 80m Contest	2000Z-2100Z, Jan 1	SKCC Sprint	0000Z-0200Z, Jan 22
NRAU 10m Activity Contest	1800Z-1900Z, Jan 2 (CW) and 1900Z-2000Z, Jan 2 (SSB) and 2000Z-2100Z, Jan 2 (FM) and 2100Z-2200Z, Jan 2 (Dig)	QRP Fox Hunt	0200Z-0330Z, Jan 22
SKCC Sprint Europe	2000Z-2200Z, Jan 2	Phone Fray	0230Z-0300Z, Jan 22
NCCC RTTY Sprint	0145Z-0215Z, Jan 3	CWops Mini-CWT Test	1300Z-1400Z, Jan 22 and 1900Z-2000Z, Jan 22 and
QRP Fox Hunt	0200Z-0330Z, Jan 3	NAQCC CW Sprint	0300Z-0400Z, Jan 23
NCCC Sprint	0230Z-0300Z, Jan 3	NCCC RTTY Sprint	0130Z-0330Z, Jan 23
PODXS 070 Club PSKFest	0000Z-2400Z, Jan 4	QRP Fox Hunt	0145Z-0215Z, Jan 24
WW PMC Contest	1200Z, Jan 4 to 1200Z, Jan 5	NCCC Sprint	0200Z-0330Z, Jan 24
RSGB AFS Contest, CW	1300Z-1700Z, Jan 4	CQ 160-Meter Contest, CW	0230Z-0300Z, Jan 24
ARRL RTTY Roundup	1800Z, Jan 4 to 2400Z, Jan 5	REF Contest, CW	2200Z, Jan 24 to 2200Z, Jan 26
ARRL Kids Day	1800Z-2359Z, Jan 4	BARTG RTTY Sprint	0600Z, Jan 25 to 1800Z, Jan 26
EUCW 160m Contest	2000Z-2300Z, Jan 4 and 0400Z-0700Z, Jan 5	UBA DX Contest, SSB	1200Z, Jan 25 to 1200Z, Jan 26
IQRP Quarterly Marathon	0800Z, Jan 6 to 2000Z, Jan 12	Winter Field Day	1300Z, Jan 25 to 1300Z, Jan 26
ARS Spartan Sprint	0200Z-0400Z, Jan 7	QCX Challenge	1900Z, Jan 25 to 1900Z, Jan 26
QRP Fox Hunt	0200Z-0330Z, Jan 8	QRP Fox Hunt	1300Z-1400Z, Jan 27 and 1900Z-2000Z, Jan 27 and
Phone Fray	0230Z-0300Z, Jan 8	Phone Fray	0300Z-0400Z, Jan 28
CWops Mini-CWT Test	1300Z-1400Z, Jan 8 and 1900Z-2000Z, Jan 8 and 0300Z-0400Z, Jan 9	CWops Mini-CWT Test	0200Z-0330Z, Jan 29
AWA Linc Cundall Memorial CW Contest and	2300Z, Jan 8 to 2300Z, Jan 9	UKEICC 80m Contest	0230Z-0300Z, Jan 29
NCCC RTTY Sprint	2300Z, Jan 11 to 2300Z, Jan 12	NCCC RTTY Sprint	1300Z-1400Z, Jan 29 and 1900Z-2000Z, Jan 29 and
QRP Fox Hunt	0145Z-0215Z, Jan 10	NCCC Sprint	0300Z-0400Z, Jan 30
NCCC Sprint	0200Z-0330Z, Jan 10		2000Z-2100Z, Jan 29
YB DX Contest	0230Z-0300Z, Jan 10		0145Z-0215Z, Jan 31
Old New Year Contest	0000Z-2359Z, Jan 11		0200Z-0330Z, Jan 31
UBA PSK63 Prefix Contest	0500Z-0900Z, Jan 11		0230Z-0300Z, Jan 31
SKCC Weekend Sprintathon	1200Z, Jan 11 to 1200Z, Jan 12		
North American QSO Party, CW	1200Z, Jan 11 to 2400Z, Jan 12		
NRAU-Baltic Contest, SSB	1800Z, Jan 11 to 0559Z, Jan 12		
NRAU-Baltic Contest, CW	0530Z-0730Z, Jan 12		
DARC 10-Meter Contest	0800Z-1000Z, Jan 12		
Midwinter Contest	0900Z-1059Z, Jan 12		
RSGB AFS Contest, Data	1000Z-1400Z, Jan 12		
Classic Exchange, CW	1300Z-1700Z, Jan 12		
and	1400Z, Jan 12 to 0800Z, Jan 13		
4 States QRP Group Second Sunday Sprint	1400Z, Jan 13 to 0800Z, Jan 15		
QRP Fox Hunt	0100Z-0300Z, Jan 13		
Phone Fray	0200Z-0330Z, Jan 15		
CWops Mini-CWT Test	0230Z-0300Z, Jan 15		
	1300Z-1400Z, Jan 15 and 1900Z-2000Z, Jan 15 and 0300Z-0400Z, Jan 16		
NAQCC CW Sprint	0130Z-0330Z, Jan 16		
NCCC RTTY Sprint	0145Z-0215Z, Jan 17		
QRP Fox Hunt	0200Z-0330Z, Jan 17		
NCCC Sprint	0230Z-0300Z, Jan 17		
LZ Open Contest	1800Z-2200Z, Jan 17		
Hungarian DX Contest	1200Z, Jan 18 to 1159Z, Jan 19		
RSGB AFS Contest, SSB	1300Z-1700Z, Jan 18		

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