

Port City Amateur Radio Club

May 6, 2026

**PortCityARC@groups.io – Main
Communications Channel**

www.W1WQM.org

**Sunday 10 AM Seacoast Net – 3895 kHz –
General Discussion Rounds**

**Sunday 7 PM 2 M Net – W1WQM Repeater
– New Ham Comms**

**First Wednesday of Month – POTA Picnic
Hampton Beach - noon**



Please Set Cell
Phones to Silent



Officers & Members Introduction

- **Mark – K1RX – President, Trustee NM1JY**
- **Thom - K1TKT - Vice President**
- **Bonnie - N1IIM - Treasurer**
- **Mark – KC1UKO – Secretary**
- **Ken – N1RP – Trustee, W1WQM**

- **NEW VISITORS**
- **Around the room introductions with your:**
 - **Name**
 - **Call (use phonetics)**
 - **Home Location**
 - **Club Office Held (if any)**



Coming Up Tonight

- **Donation Dinner – Thank You Thom, K1TKT**
- **Announcements**
- **Club Calendar**
- **Treasurer's Report**
- **Old Business**
- **New Business**
- **Main Topic – FT-8 Ken, N1RP**
- **Lightning Rounds**
- **Intermission – 50/50 Tickets on Sale!**
- **Lightning Rounds**
- **50/50 Drawing**
- **Motion to Adjourn**



Announcements

- **Member License Upgrades**

Coming Up Soon – Club Calendar

- **VE Test session – May 9**
- **ARES**
- **Lab Night – TBD**

Old Business

Portsmouth Market Square Day June 13 – update – Dave,
KX1A

Field Day Apparel – Club Purchase - AA1IT



A red pushpin is pinned to a white surface, holding a large, inflated blue balloon in place. The balloon is on the left side of the frame, and the pushpin is visible at the bottom left. The background is a solid white color.

New Business

Nominating Committee PCARC – Election June

Request by HamExpo – August, 2026 SSC Presentation

**RAS-4 Project – Pre-payment now being collected
(K1TKT) Kit: \$200 Assembled: \$275**

Any other NEW Business?

Main Topic Tonight

FT8 and FT4

-Ken, N1RP

A Brief Introduction to

FT8 and FT4

Franke & Taylor, 8-frequency shift keying format

FT8 – What is it?

FT8 is one of the many digital modes often referred to as sound card modes (SCM) because they utilize a computer's sound card to bring in audio from your radio to be processed by software to decode the information embedded in the signal. Conversely, when you want to transmit, the software encodes your message into audio tones that are sent out via your sound card to your radio's audio or Mic input.

For years there have been a variety of these new software modes including Phase-shift keying (PSK31 & PSK 65), Hellschreiber, Olivia, Pactor, etc. and even older hardware-based modes such as RTTY that we now use our computers to encode and decode. FT8 is one of a group of Multiple Frequency-Shift Keying (MFSK) modes that include JT9, JT65 and MSK144 created by Joe Taylor, K1JT and co-developers.

FT8 is designed to maximize communication even when signals are very weak (as low as -24dB). This means that even low-powered stations and stations with sub-optimal antennas can make contacts worldwide.

FT8 Signal/Noise Ratio

Weak-Signal Signal/Noise Ratio

- SSB +10 dB
- CW -15 dB
- FT8 -24 dB
- JT65 -25 dB
- JT9 -27 dB
- WSPR -31 dB

FT8/FT4 - Where is it?

Frequencies

Recommended Frequencies

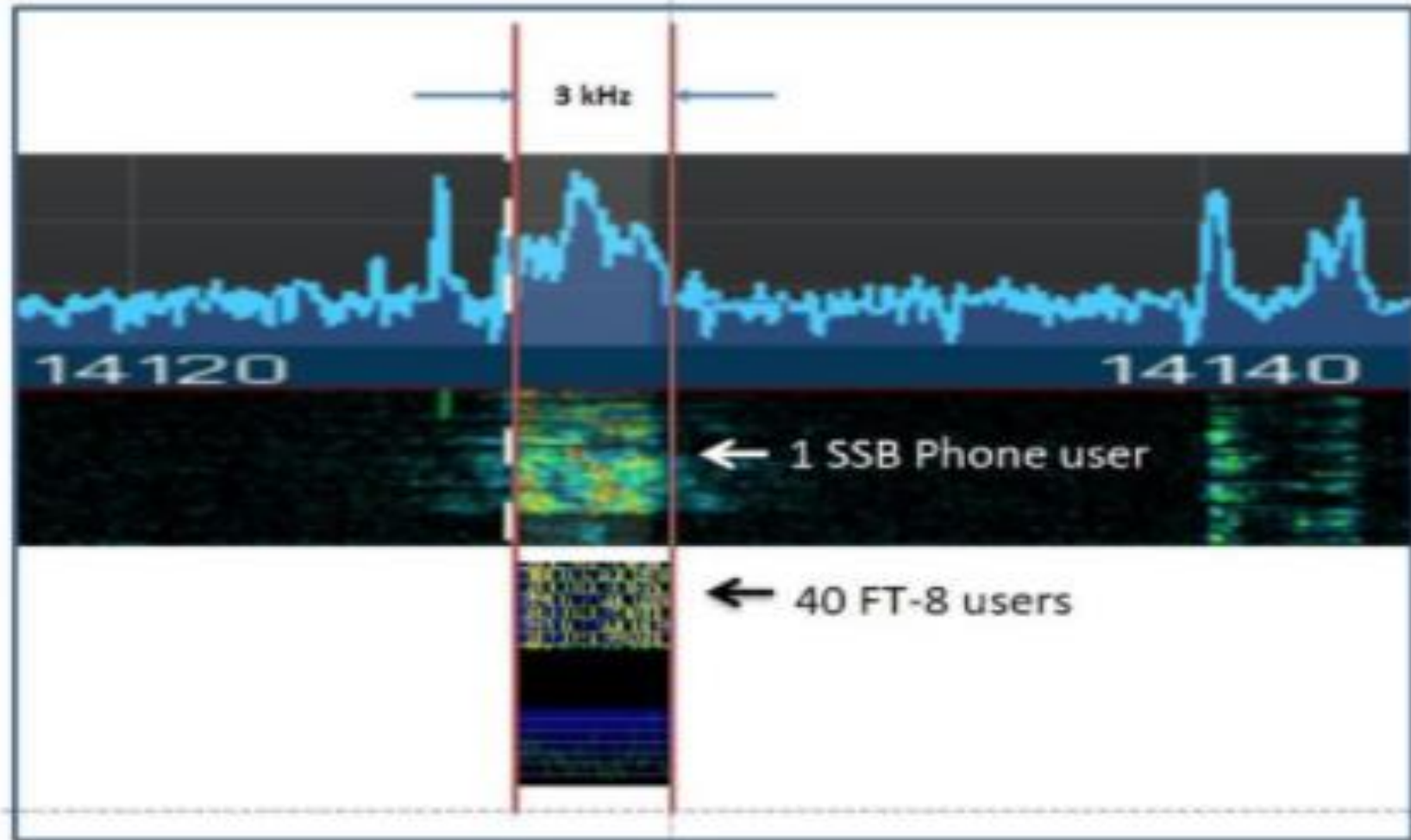
FT8		FT4	
160m	1.840	160m	
80m	3.573	80m	3.575
60m	5.357	60m	
40m	7.074	40m	7.0475
30m	10.136	30m	10.140
20m	14.074	20m	14.080
17m	18.100	17m	18.104
15m	21.074	15m	21.140
12m	24.915	12m	24.919
10m	28.074	10m	28.180
6m	50.313	6m	50.318

DXpedition stations often use surrounding frequencies

2026 3Y0K

Band	CW	SSB	FT8	Band	Mode
160m	Free	N/A	1836 kHz	160m	CW/FT8
80m	Free	N/A	3567 kHz	80m	CW/FT8
60m	Free	N/A	5357 kHz	60m	CW/FT8
40m	Free	Free	7090 kHz	40m	All mode
30m	Free	Free	10131 kHz	30m	CW/FT8
20m	Free	Free	14090 kHz	20m	All mode
17m	Free	Free	18095 kHz	17m	All mode
15m	Free	Free	21090 kHz	15m	All mode
12m	Free	Free	24911 kHz	12m	All mode
10m	Free	Free	28090 kHz	10m	All mode
				SAT	QO-100

Bandwidth



Getting started with FT8

To use FT8 you need these things:

1. An HF transceiver with data or SSB capability (*FT8 always uses USB*)
2. An audio interface, a way to get receive audio from the radio into a computer and audio output of the computer into the radio, typically a sound card interface. *Built into many modern radios. Cable to connect computer to radio.*
3. *Your radio vendors comm port and audio drivers (usually a single install)*
4. A computer capable of running the FT8 software and **time synchronization**
5. FT8 software

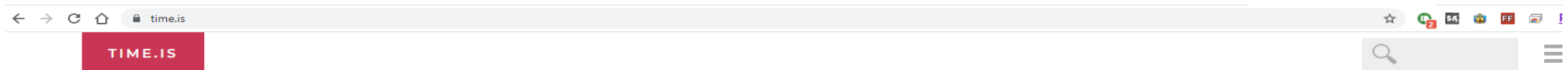
Time is Critical

Synchronize your computer clock!

Synchronize your computer clock!!

Synchronize your computer clock!!!

www.time.is



11:11:46 am

WSJT-X Software

WSJT-X v2.7.0 by K1JT et al.

File Configurations View Mode Decode Save Tools Help

Band Activity

UTC	dB	DT	Freq	Message
205145	-10	0.1	1610	~ KF7AXE KC5OCH +09
----- 17m -----				
205200	22	0.1	1094	~ CQ MOBEW IO82 England
205200	7	0.1	947	~ VE3CIQ G7GEE R-10
205200	22	0.2	1307	~ WL7E GW0SGL IO81
205200	31	0.2	433	~ KU4RP DJ7M RR73
205200	-8	0.1	2171	~ AC2PB DL5OBY R+03
205200	10	0.1	1484	~ CQ EA5KB IM99 Spain
205200	-8	-0.3	2062	~ CQ USA W4LB EM45 U.S.A.
205200	8	0.4	507	~ CQ F4HTA JO10 France
205200	8	0.1	1281	~ <FG/F6ASS> WB4KTF EM10
205200	3	0.0	1502	~ M6OTN KI4GIP -10
205200	-14	0.1	903	~ J69DS SP9FZH JN99
205200	-24	0.1	2286	~ CQ AA1BS FN43 CQ Zone 5
205200	-24	0.5	2002	~ J69DS SP9SIL RR73
----- 17m -----				
205215	11	0.0	1094	~ MOBEW KJ5DZV -06
205215	26	0.1	2465	~ JA8DMB KQ4MAI EL87
205215	29	0.2	1501	~ KI4GIP M6OTN IO82
205215	10	0.1	530	~ HC2AD EA7UW IM76
205215	21	0.1	2387	~ HC2AD DF6QN JO41
205215	11	0.2	2153	~ 5Q2J ON9DC -04
205215	14	-0.3	930	~ 5Q2J DK3ID JN67
205215	2	0.1	2091	~ SP9SIL J69DS 73
205215	11	0.2	1420	~ HC2AD EA3FAJ JN11
205215	-6	0.1	1004	~ FY2ZAA LA3ZPA -05
205215	-10	0.1	2623	~ DL5OBY AC2PB RR73
205215	-13	0.1	229	~ CQ G8DCJ IO92 England
205215	-3	0.8	1595	~ LU8EKC IW1FRD JN35
205215	-24	0.2	1226	~ KD8OBA KD6DX R-24
205215	12	0.1	2493	~ AA1BS AD5CA EL18
205215	-6	0.1	799	~ HC2AD F6EII JO10
205215	-18	0.2	1832	~ 5Q2J P97CY HI24
205215	21	0.3	1679	~ VE2LEZ SP3RK JO71
205215	-24	0.4	1934	~ CQ KK6KC DM03 CQ Zone 3

Rx Frequency

UTC	dB	DT	Freq	Message
151945	12	0.2	467	~ <...> F4FLF JN18
152015	Tx		1391	~ CQ W1AW/1
152030	-15	0.1	1391	~ <W1AW/1> PE1LJS -05
152045	Tx		1391	~ PE1LJS <W1AW/1> R-15
152100	-24	0.1	1865	~ <W1AW/1> DB4VI JN39
152115	Tx		1391	~ PE1LJS <W1AW/1> R-15
152130	-18	0.1	1390	~ W1AW/1 <PE1LJS> RR73
152130	-24	0.1	1865	~ <W1AW/1> DB4VI JN39
152130	-6	0.1	1275	~ <W1AW/1> R3MBB KO97
152130	-16	0.2	1606	~ <W1AW/1> PA0MM JO21
152145	Tx		1391	~ <PE1LJS> W1AW/1 73
152200	-11	0.2	1866	~ <W1AW/1> DB4VI JN39
152215	Tx		1391	~ DB4VI <W1AW/1> -11
152230	-16	0.1	1275	~ <W1AW/1> R3MBB KO97
152245	Tx		1391	~ DB4VI <W1AW/1> -11
152300	-14	0.4	1839	~ <W1AW/1> OE1SGU JN88
152300	-13	0.2	1866	~ <W1AW/1> DB4VI R-08
152300	-24	0.2	1587	~ <W1AW/1> OK1HEH -06
152315	Tx		1391	~ <DB4VI> W1AW/1 RR73
152330	-16	0.1	1839	~ <W1AW/1> OE1SGU JN88
152330	-10	0.1	1605	~ <W1AW/1> PA0MM JO21
152345	Tx		1391	~ OE1SGU <W1AW/1> -16
152400	13	0.1	1839	~ <W1AW/1> OE1SGU R+03
152415	Tx		1391	~ <OE1SGU> W1AW/1 RR73
152430	13	0.1	1839	~ W1AW/1 <OE1SGU> 73
152445	Tx		1391	~ CQ W1AW/1
152500	-9	0.4	1979	~ <W1AW/1> F1PPH JN07
152500	-17	0.5	1896	~ <W1AW/1> R4HMI KO85
152515	Tx		1391	~ F1PPH <W1AW/1> -09
152530	-17	0.4	1979	~ <W1AW/1> F1PPH R-02
152530	-15	0.2	1605	~ <W1AW/1> PA0MM JO21
152545	Tx		1391	~ <F1PPH> W1AW/1 RR73
152600	4	0.2	1391	~ <W1AW/1> EA1CQ IN83
152615	Tx		1391	~ EA1CQ <W1AW/1> +04
152630	-8	0.2	1391	~ <W1AW/1> EA1CQ R+01

CQ only
 Log QSO
 Stop
 Monitor
 Erase
 Decode
 Enable Tx
 Halt Tx
 Tune
 Menu

17m S 18.100 000
 Tx even/1st
 Hold Tx Freq

Tx 1391 Hz
 Rx 1560 Hz
 Report -16
 Auto Seq
 CQ: Max Dist

H DX Call DX Grid

FT8 M9KCA

FT4

MSK

Q65

JT65

Lookup Add

2026 May 01

20:52:37

Generate Std Msgs Next Now Pwr

<M9KCA> W1AW/1 Tx 1

M9KCA <W1AW/1> -16 Tx 2

M9KCA <W1AW/1> R-16 Tx 3

<M9KCA> W1AW/1RR73 Tx 4

<M9KCA> W1AW/1 73 Tx 5

CQ W1AW/1 Tx 6

Receiving FDX101 FT8 Last Tx: <M9KCA> W1AW/1 73 19 7/15 WD:20m

WSJT-X General Settings

Settings ? X

General Radio Audio Tx Macros Reporting Frequencies Colors Advanced

Station Details

My Call: My Grid: AutoGrid IARU Region:

Message generation for type 2 compound callsign holders:

Display

Start new period decodes at top

Blank line between decoding periods

Display distance in miles

Tx messages to Rx frequency window

Show DXCC, grid, and worked-before status Show principal prefix instead of country name

Behavior

Monitor off at startup Enable VHF and submode features

Monitor returns to last used frequency Allow Tx frequency changes while transmitting

Double-click on call sets Tx enable Single decode

Disable Tx after sending 73 Decode after EME delay

Calling CQ forces Call 1st

Alternate F1-F6 bindings

CW ID after 73

Tx watchdog:

Periodic CW ID Interval:

WSJT-X Radio Settings

Settings

General Radio Audio Tx Macros Reporting Frequencies Colors Advanced

Rig: Ham Radio Deluxe

Network Server: [dropdown]

Serial Port Parameters

Baud Rate: 38400

Data Bits

Default Seven Eight

Stop Bits

Default One Two

Handshake

PTT Method

DTR RTS

Port: COM4

Transmit Audio Source

Rear/Data Front/Mic

Mode

None USB Data/Pkt

Split Operation

None Rig Fake It

Test CAT Test PTT

OK Cancel

OPERATION SETTING

GENERAL

RF /SQL VR [OFF] SQL

TUNER SELECT [INT]

232C RATE 38400bps

232C TIME OUT TIMER 10msec

CAT RATE 38400bps

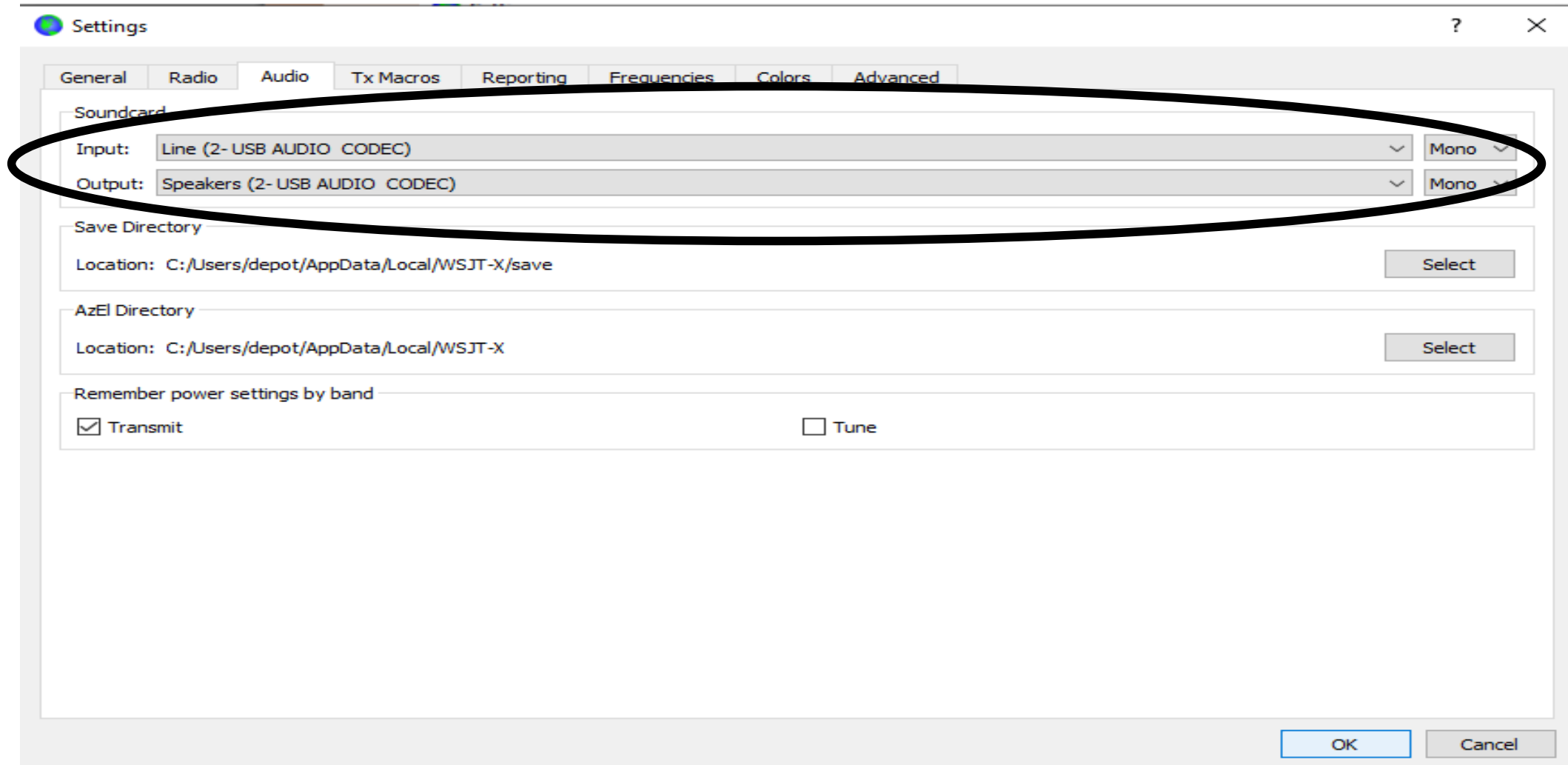
CAT TIME OUT TIMER 10msec

CAT RTS [OFF] [ON]

BACK

Must match radio
From Device Manager

WSJT-X Audio Settings



WSJT-X Settings

Settings

General Radio Audio Tx Macros Reporting Frequencies Colors Advanced

Logging

Prompt me to log QSO Op Call:

Log automatically (contesting only)

Convert mode to RTTY

dB reports to comments

Clear DX call and grid after logging

Network Services

Enable PSK Reporter Spotting Use TCP/IP connection

UDP Server

UDP Server: Accept UDP requests

UDP Server port number: Notify on accepted UDP request

Accepted UDP request restores window

Secondary UDP Server (deprecated)

Enable logged contact ADIF broadcast

Server name or IP address:

Server port number:

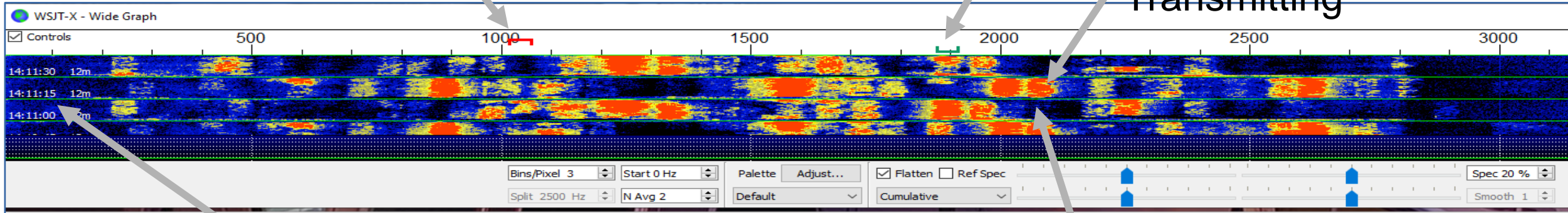
OK Cancel

WSJT-X Waterfall

My transmit frequency
(1015)

My receive frequency (1871)

Station
Transmitting



Transmissions are in 15
second intervals

Station
Receiving

WSJT-X Main Screen

All QSO activity in the receive spectrum

Stations calling "CQ" will be highlighted in green

Your call will show up highlighted in red

All activity shown on the Rx frequency

Your transmissions are highlighted in yellow

The message transmissions are generated automatically and sent in sequence

Your transmissions are sent in a 50 Hz-wide slot at the base frequency + the audio offset

Band Activity					Rx Frequency				
UTC	dB	DT	Freq	Message	UTC	dB	DT	Freq	Message
113130	-7	0.2	1093	CQ W1AZZ EL82	112610	-1	0.1	1093	N4BP NODL EN14
113130	-13	-0.6	1814	CQ CO3NR EL82	112630	-2	0.1	2053	W3DWM N4BP -17
113130	-8	0.0	2010	CQ KE6SCS DM04	112645	Tx		1005	N4BP NODL EN14
113145	-18	0.2	1227	CQ HR7JA FJ35	112700	-2	0.1	2054	W3DWM N4BP RRR
113145	-8	-0.0	1409	JALDJI RN6NAE -00	112715	Tx		1005	N4BP NODL EN14
113145	-6	0.1	1792	ES1AAK LUSVV FE48	112730	-2	0.2	2054	W3DWM N4BP 73
113145	2	0.1	2133	BD7ONR WD6DEM -19	112730	-12	-0.6	1816	CQ CO3NR EL82
113200	-17	-0.6	1814	CQ CO3NR EL82	112747	Tx		2053	CO3NR NODL EN14
113200	-12	0.0	2011	CQ KE6SCS DM04	112815	Tx		2053	CO3NR NODL EN14
113230	-16	0.0	1469	KD2DNJ YV1GIY -07	112830	-12	-0.6	1815	CQ CO3NR EL82
113230	-9	-0.6	1814	CQ CO3NR EL82	112845	Tx		1450	CO3NR NODL EN14
113300	-10	-0.9	2010	CQ KE6SCS DM04	112900	-14	-0.1	1815	CQ CO3NR EL82
113300	-9	-0.6	1066	NB1ODQ CO3NR -00	112915	Tx		1450	CO3NR NODL EN14
113315	-8	0.1	1363	K1VWQ W2DEN 73	112930	-12	-0.6	1815	CQ CO3NR EL82
113315	-8	0.1	1725	EI4TGV LUSVV FE48	113000	-13	-0.6	1815	CQ CO3NR EL82
113315	-3	0.0	2054	N4BP F4ADR EL96	113030	-9	0.1	2054	CQ N4BP EL96
113315	-2	0.1	2133	BD7ONR WD6DEM -19	113045	Tx		1450	N4BP NODL EN14
113330	-12	-0.9	2011	CQ KE6SCS DM04	113100	-9	0.2	2054	CQ N4BP EL96
113330	-11	-0.6	1066	NB1ODQ CO3NR RRR	113115	Tx		1450	N4BP NODL EN14
113330	-10	0.0	1469	KD2DNJ YV1GIY 73	113130	-6	0.2	2054	CQ N4BP EL96
113400	-8	-0.0	2010	NODL KE6SCS -11	113200	-12	0.0	2011	CQ KE6SCS DM04
113430	-14	0.0	2010	NODL KE6SCS RRR	113217	Tx		2054	KE6SCS NODL EN14
113430	-9	0.0	1469	W2DEN YV1GIY -06	113245	Tx		2054	KE6SCS NODL EN14
113430	-14	-0.6	1460	CQ CO3NR EL82	113300	-10	-0.0	2010	CQ KE6SCS DM04
113500	-9	-0.9	2011	NODL KE6SCS 73	113330	-12	-0.0	2011	CQ KE6SCS DM04
113500	-11	0.0	1469	W2DEN YV1GIY RRR	113345	Tx		2011	KE6SCS NODL EN14
113500	-12	-0.6	1066	CQ CO3NR EL82	113400	-8	-0.0	2010	NODL KE6SCS -11
113515	-15	0.2	1236	CQ HR7JA FJ35	113415	Tx		2011	KE6SCS NODL R-09
113515	-11	0.0	1414	DS4GPA NOTE -11	113430	-14	0.0	2010	NODL KE6SCS RRR
113515	-5	0.1	1469	YV1GIY W2DEN 73	113445	Tx		2011	KE6SCS NODL 73
113515	5	0.1	2133	BD7ONR WD6DEM -19	113500	-8	-0.0	2011	NODL KE6SCS 73

FT8 Band Activity – All Decodes

WSJT-X v2.5.0 by K1JT, G4WJS, K9AN, and IV3NWW

File Configurations View Mode Decode Save Tools Help

Band Activity					
UTC	dB	DT	Freq	Message	
140715	10	0.3	1077	~ CQ IZ10MN UN43	Italy
140715	14	0.1	574	~ VE3DZ EA8DEG RR73	
140715	16	0.1	865	~ 3B9FR K1KA -13	
140715	2	0.5	2166	~ KB1SEQ EA6T -13	
140715	7	0.1	2057	~ 3B9FR UT3UNE KO50	
140715	2	0.4	2122	~ CQ 9A1AD JN85	Croatia
140715	-1	0.1	1123	~ KA8OAT IZ2FTR R+07	
140715	-10	0.2	1766	~ CQ EA5KB IM99	Spain
140715	1	0.1	657	~ VE3FMQ IZ6MPZ R-21	
140715	-3	0.1	2314	~ UV8IF 9K2OW R-02	
140715	-17	0.1	1688	~ NE9U G3RTE -02	
140715	0	-0.7	1871	~ N1RP HB9TVS RR73	
140715	6	0.1	605	~ CQ IZ0MIT JN61	Italy
140715	-12	0.3	1068	~ CQ EA5D IM99	Spain
140715	-12	0.2	334	~ K6EME DF7EF -18	
140715	-12	-0.2	396	~ <3DA0RU> EA4NW R-10	
140715	-22	0.1	2444	~ I2XCH WP4G RR73	
140715	-22	0.4	2373	~ OD5KU VE3JI 73	
140715	-14	0.3	992	~ NP2Q IN3XUG -11	
140715	-24	0.2	1396	~ CX2SA IK8WSQ -20	
140715	-18	0.1	1116	~ CQ F4F2R JN25	France
140715	12	0.3	811	~ N8TR PA3CPS JO32	
140715	3	0.1	2623	~ CQ HA7TM JN97	Hungary
140715	-4	0.1	2656	~ OD5KU N3EEN FN10	
140715	-8	0.1	1336	~ <3DA0RU> G0RDU IO92	

FT8 Band Activity – CQ Only Decodes

WSJT-X v2.5.0 by K1JT, G4WJS, K9AN, and IV3NWX

File Configurations View Mode Decode Save Tools Help

Band Activity

UTC	dB	DT	Freq	Message
----- 12m				
141045	32	0.2	2601 ~	CQ EA4HCZ IN80 Spain
141045	27	0.1	1989 ~	CQ IK1MNJ JN35 Italy
141045	4	1.3	1698 ~	CQ IK2NNI JN55 Italy
141045	21	-0.3	1077 ~	CQ IZ1JMN JN43 Italy
141045	7	0.0	2712 ~	CQ EA9ACD IM75 Ceuta & Melilla
141045	-5	0.1	1116 ~	CQ F4FZR JN25 France
141045	1	0.1	1527 ~	CQ PC2K JO22 Netherlands
----- 12m				
141100	33	0.1	1871 ~	CQ UR8UZ KO50 Ukraine
141100	-13	-0.1	815 ~	CQ 7Z1AL LL56 Saudi Arabia
141100	16	0.1	1244 ~	CQ LZ1ND KN22 CQ Zone 20
141100	-1	0.1	2224 ~	CQ YO3FRI KN34 CQ Zone 20
141100	-21	0.1	455 ~	CQ SV3GLL KM17 CQ Zone 20
----- 12m				
141115	30	0.2	2601 ~	CQ EA4HCZ IN80 Spain
141115	0	0.2	1765 ~	CQ EA5KB IM99 Spain
141115	14	-0.3	1077 ~	CQ IZ1JMN JN43 Italy
141115	-7	1.3	1697 ~	CQ IK2NNI JN55 Italy
141115	-9	0.0	2711 ~	CQ EA9ACD IM75 Ceuta & Melilla
141115	-12	0.1	2803 ~	CQ IZ0MIT JN61 Italy
----- 12m				
141130	16	0.1	1871 ~	CQ UR8UZ KO50 Ukraine
141130	-4	-0.0	814 ~	CQ 7Z1AL LL56 Saudi Arabia
141130	17	0.1	1244 ~	CQ LZ1ND KN22 CQ Zone 20

CQ only Log QSO Stop Monitor Erase

WSJT-X

Select Band

Audio receive level

The screenshot shows the WSJT-X software interface. At the top, there are buttons for 'Log QSO', 'Stop', 'Monitor' (highlighted in green), 'Erase', 'Decode', 'Enable Tx', 'Halt Tx', 'Tune', and 'Menus'. Below these, the frequency is set to 17m and the frequency display shows 18.100 000. The mode is set to FT8, and the call sign is M9KCA. The date and time are 2026 May 01 21:12:34. The interface also shows a 'Generate Std Msgs' section with a list of messages and a 'Pwr' slider. The status bar at the bottom shows 'Receiving', 'FTDX101', 'FT8', and 'Last Tx: <M9KCA> W1AW/1 73 | 17 | 4/15 | WD:20m'.

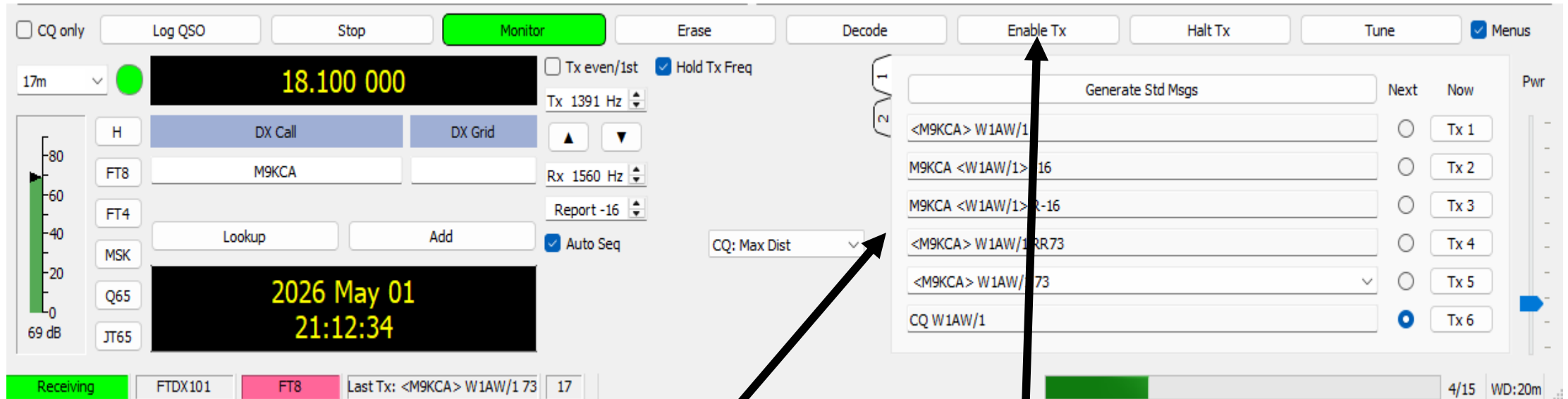
Current activity

Radio

Current mode

Adjust power for minimum ALC

WSJT-X



The standard (automated) QSO sequence

Enable further transmissions

15 second timer

WSJT-X – Sending CQ

Rx Frequency				
UTC	dB	DT	Freq	Message
134215	Tx		1547 ~	CQ N1RP FN42
134245	Tx		1547 ~	CQ N1RP FN42
134315	Tx		1547 ~	CQ N1RP FN42
134345	Tx		1547 ~	CQ N1RP FN42
134400	15	0.1	1303 ~	N1RP F4BHI IN95
134415	Tx		1547 ~	F4BHI N1RP +15
134445	Tx		1547 ~	F4BHI N1RP +15
134500	0	-0.2	1295 ~	YDORCH SV2FNT KN00
134515	Tx		1547 ~	F4BHI N1RP +15
134530	5	0.1	1306 ~	N1RP F4BHI R-13
134545	Tx		1547 ~	F4BHI N1RP RR73
134600	-3	0.1	1307 ~	N1RP F4BHI 73

WSJT-X Sending CQ

Rx Frequency				
UTC	dB	DT	Freq	Message
180915	Tx		2261 ~	CQ N1RP FN42
180930	7	0.1	2261 ~	N1RP XE2BC DM12
180930	19	0.1	1541 ~	N1RP EA7NC +01
180945	Tx		2261 ~	XE2BC N1RP +07
181000	10	0.1	2261 ~	N1RP XE2BC R-05
181015	Tx		2261 ~	XE2BC N1RP RR73
181030	33	0.1	2260 ~	N1RP IK8YJS JM89
181045	Tx		2261 ~	IK8YJS N1RP +33
181100	19	0.1	2260 ~	N1RP IK8YJS R-09
181115	Tx		2261 ~	IK8YJS N1RP RR73
181130	17	0.1	2260 ~	N1RP IK8YJS 73
181130	5	-0.0	2043 ~	N1RP W4NRG FM18
181145	Tx		2261 ~	W4NRG N1RP +05
181200	19	-0.1	2043 ~	N1RP W4NRG R+03
181215	Tx		2261 ~	W4NRG N1RP RR73
181230	4	-0.1	2043 ~	N1RP W4NRG 73

FT8 “DXpedition Mode” Fox / Hound (F/H)

This screenshot shows the FT8 software interface in Fox mode. The top bar includes buttons for "Log QSO", "Stop", "Monitor" (highlighted in green), "Erase", "Decode", "Enable Tx", "Halt Tx", "Tune", and "Menus" (checked). The frequency display shows 18.100 000 MHz. The DX Call field contains "M9KCA". The DX Grid field is empty. The date and time display shows "2026 May 01 21:12:34". The "Generate Std Msgs" list on the right includes: "<M9KCA> W1AW/1", "M9KCA <W1AW/1> -16", "M9KCA <W1AW/1> R-16", "<M9KCA> W1AW/1 RR73", "<M9KCA> W1AW/1 73", and "CQ W1AW/1". The "Tx 6" button is selected. The status bar at the bottom shows "Receiving", "FTDX101", "FT8", "Last Tx: <M9KCA> W1AW/1 73", and "17".

This screenshot shows the FT8 software interface in Hound mode. The top bar includes buttons for "Log QSO", "Stop", "Monitor" (highlighted in green), "Erase", "Decode", "Enable Tx", "Halt Tx", "Tune", and "Menus" (checked). The frequency display shows 18.100 000 MHz. The DX Call field contains "M9KCA". The DX Grid field is empty. The date and time display shows "2026 May 01 21:22:28". The "Generate Std Msgs" list on the right is identical to the Fox mode screenshot. The "Tx 1" button is selected. A red "Hound" label is circled in blue. The status bar at the bottom shows "Receiving", "FTDX101", "FT8", and "4".

FT8 Fox / Hound

WSJT-X v2.5.0 by K1JT, G4WJS, K9AN, and IV3NWX

File Configurations View Mode Decode Save Tools Help

Band Activity					
UTC	dB	DT	Freq	Message	
172115	11	0.1	1164	J5HKT EALIQM IN52	
172115	0	-0.1	718	J5HKT EALIT R-10	
172115	-7	0.1	1812	J5HKT VE1ANU FN84	
172115	-8	0.1	1362	J5HKT IZ8MXB JM88	
----- 12m					
172130	28	0.1	657	EALIT RR73; SP2OFW <J5HKT> -18	
172130	27	0.1	717	EB1CRW RR73; IK5BDG <J5HKT> -18	
----- 12m					
172145	38	0.1	1528	J5HKT PY2XU GG66	
172145	9	0.1	1164	J5HKT EALIQM IN52	
172145	18	0.1	1621	J5HKT ON4ATW JO20	
----- 12m					
172200	20	0.1	657	IK5BDG RR73; SP2OFW <J5HKT> -18	
172200	20	0.1	717	IZ8MXB J5HKT -23	
----- 12m					

Fox can transmit on multiple streams

Fox transmits below 1kHz

Hounds transmit above 1kHz

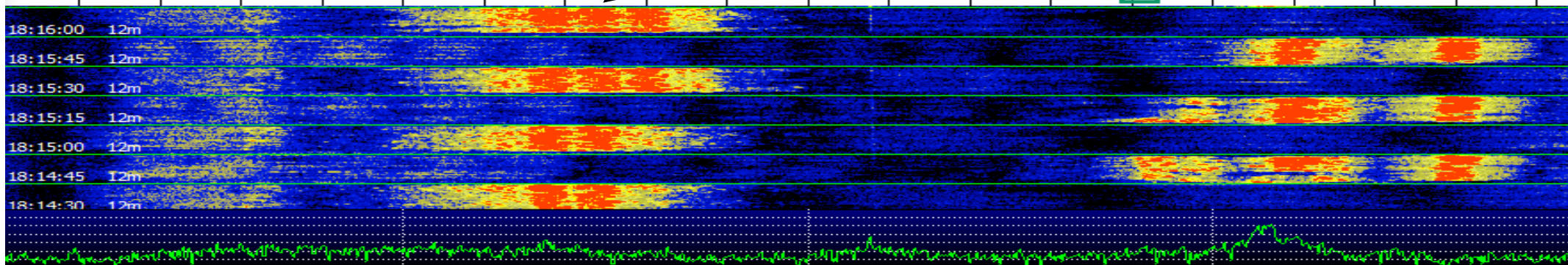
WSJT-X - Wide Graph

Controls

500

1000

1500



FT4?

Change Modes here

The screenshot shows a radio software interface with various controls and a list of messages. An arrow points from the text "Change Modes here" to the "FT4" button in the mode selection area.

Mode Selection Area:

- Buttons: H, FT8, **FT4**, MSK, Q65, JT65
- Fields: Call (M9KCA), DX Grid, Lookup, Add
- Checkboxes: Tx even/1st, Hold Tx Freq, Auto Seq
- Frequency: 18.100 000
- TX/RX Freq: Tx 1391 Hz, Rx 1560 Hz
- Report: -16
- CQ: Max Dist

Message List:

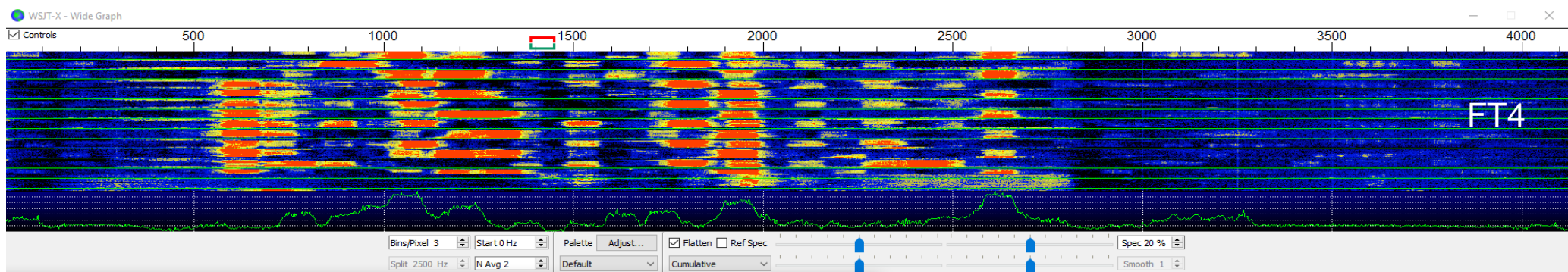
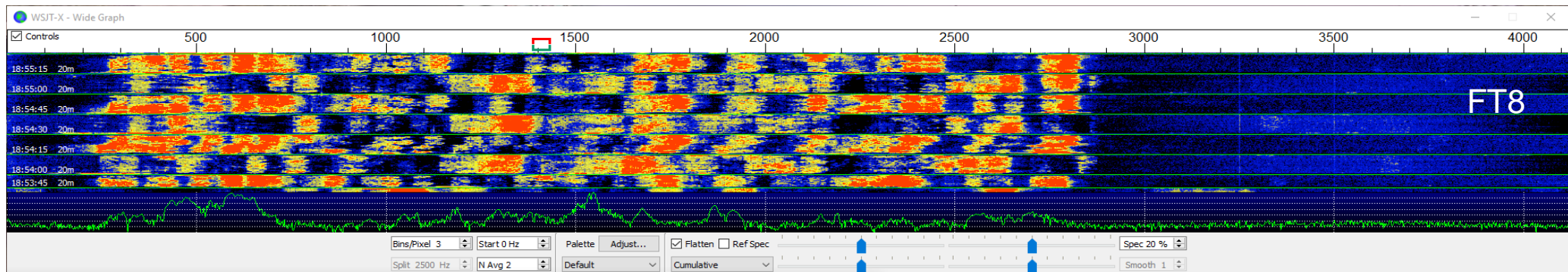
Message	Next	Now
<M9KCA> W1AW/1	<input type="radio"/>	Tx 1
M9KCA <W1AW/1> -16	<input type="radio"/>	Tx 2
M9KCA <W1AW/1> R-16	<input type="radio"/>	Tx 3
<M9KCA> W1AW/1 RR73	<input type="radio"/>	Tx 4
<M9KCA> W1AW/1 73	<input type="radio"/>	Tx 5
CQ W1AW/1	<input checked="" type="radio"/>	Tx 6

Bottom Status Bar:

- Receiving
- FTDX101
- FT8
- Last Tx: <M9KCA> W1AW/1 73
- 17
- 4/15
- WD:20m

FT4

- Modulation uses 4-tone frequency-shift keying
- T/R sequences are 6 seconds long, so FT4 is 2.5 × faster than FT8
- The occupied bandwidth of FT4 is 90 Hz vs FT8 50 Hz



FT4 – Responding to CQ

WSJT-X v2.5.0 by K1JT, G4WJS, K9AN, and IV3NWV

File Configurations View Mode Decode Save Tools Help

Band Activity

UTC	dB	DT	Freq	Message
183830	30	0.2	1063 +	K8ZT IZ2XNY R-04
183830	18	-0.1	1588 +	EA5HVW N5KO -13
183830	36	-0.1	1787 +	CQ ON7ZJ JO21 Belgium
183830	13	-0.1	2007 +	K8ZT G7GXX IO90
----- 20m				
183845	39	-0.1	1787 +	N1RP ON7ZJ +09
183845	-7	-0.1	429 +	ON3KP KP4DQC -15
183845	14	-0.0	902 +	PA1VC VA2QR RR73
183845	17	0.1	1061 +	K8ZT IZ2XNY R-04
183845	28	-0.1	1350 +	G3ZRN 9A5CW R-04
183845	32	-0.1	1589 +	EA5HVW N5KO RR73
183845	-12	-0.0	481 +	CQ SV1EAG KM18 Greece
183845	3	0.4	852 +	KA6LJR <WB8UCD/4FL> -16
183845	12	-0.1	1077 +	CQ KISKEE EM23 U.S.A.
183845	7	-0.1	1090 +	EA2DDE M0TBQ R-02
----- 20m				
183900	39	-0.1	1788 +	N1RP ON7ZJ RR73
183900	-8	-0.0	482 +	CQ SV1EAG KM18 Greece
183900	31	-0.1	1350 +	G3ZRN 9A5CW R-04
183900	24	0.4	2270 +	CQ PD1TM JO33 Netherlands
183900	22	-0.1	1289 +	CQ F4CTJ JN09 France
183900	14	0.0	1333 +	TW3SSD FT9JA TO53

Rx Frequency

UTC	dB	DT	Freq	Message
183830	36	-0.1	1787 +	CQ ON7ZJ JO21 Belgium
183837	Tx		644 +	ON7ZJ N1RP FN42
183845	39	-0.1	1787 +	N1RP ON7ZJ +09
183852	Tx		644 +	ON7ZJ N1RP R+39
183900	39	-0.1	1788 +	N1RP ON7ZJ RR73
183907	Tx		644 +	ON7ZJ N1RP 73

WSJT-X - Logging

WSJT-X v2.5.0 by K1JT, G4WJS, K9AN, and IV3NWV - Log...

Click OK to confirm the following QSO:

Call	Start	End
LZ1LZ	10/14/2021 13:53:45	10/14/2021 13:55:15

Mode	Band	Rpt Sent	Rpt Rcvd	Grid	Name
FT8	15m	-05	-08	KN12	

Tx power: Retain

Comments: Retain

Operator:

Exch sent: Rcvd:

Prop Mode: Retain

OK Cancel



QSO date	Time on	Call	Mode	Sent	Rcvd	Band	Name	Country	Freq
10/14/2021	14:06:30	HB9TVS	FT8	-19	-08	12m	Stephane Arneodo	Switzerland	24.916.015
10/14/2021	14:01:15	DO3GE	FT8	+03	+05	15m	THOMAS SCHULTZ	Fed. Republic of Ger...	21.075.375
10/14/2021	13:59:30	MI0OBC	FT8	+16	+01	15m	David T Best	Northern Ireland	21.075.375
10/14/2021	13:53:45	LZ1LZ	FT8	-05	-08	15m	KOSTA (KEN) SHOLEV	Bulgaria	21.075.386
10/14/2021	13:06:00	UA1ABO	FT8	+05	-19	17m	Igor Minaev	European Russia	18.102.532

FT8/FT4 Logbook of the World

Details	N1RP	7Z1IS	2021-10-11 14:08:15	12M	FT8	24.91626	SAUDI ARABIA
Details	N1RP	PY5JO	2021-10-12 19:10:15	10M	FT8	28.07511	BRAZIL
Details	N1RP	FO5QB	2021-10-06 20:30:45	15M	FT8	21.07498	FRENCH POLYNESIA
Details	N1RP	CA6JQN	2021-10-12 19:13:15	10M	FT8	28.07511	CHILE
Details	N1RP	PY2PJ	2021-10-12 19:14:45	10M	FT8	28.07511	BRAZIL
Details	N1RP	TR8CA	2021-10-07 15:23:53	12M	FT4	24.92010	GABON

DXCC Award	New LoTW QSLs	LoTW QSLs in Process	DXCC Credits Awarded	Total (All)	Total (Current)
Mixed *	3	0	250	253	253
Phone *	1	0	239	240	240
Digital	11	0	157	168	168

Award Credits: Selected: 11 Applied for: 0 Awarded: 157 Total: 168
 Key: Selected - Applied

DXCC Entity	Digital
ANTARCTICA	8J1RL
DJIBOUTI	J28PJ
FRENCH POLYNESIA	FO5QB
INDIA	VU2MSA
LIBERIA	A82Z
MALAWI	7Q7RU
SAUDI ARABIA	7Z1IS
SEYCHELLES ISLANDS	S79VU
SINT MAARTEN	PJ7AA
SURINAME	PZ2YT
THAILAND	E20XMG

Station

Call Sign N1RP
 DXCC UNITED STATES OF AMERICA (291)
 CQ Zone 05
 ITU Zone 08
 Grid FN42KX
 State New Hampshire (NH)
 County Rockingham

Worked Station

Worked FO5QB
 DXCC FRENCH POLYNESIA (175)
 CQ Zone 32
 ITU Zone 63
 IOTA OC-046
 Grid BH52EK
 Date/Time 2021-10-06 20:30:45
 Mode FT8 (DATA)
 Band 15M
 Frequency 21.07498
 QSL [2021-10-12 22:44:24](#)

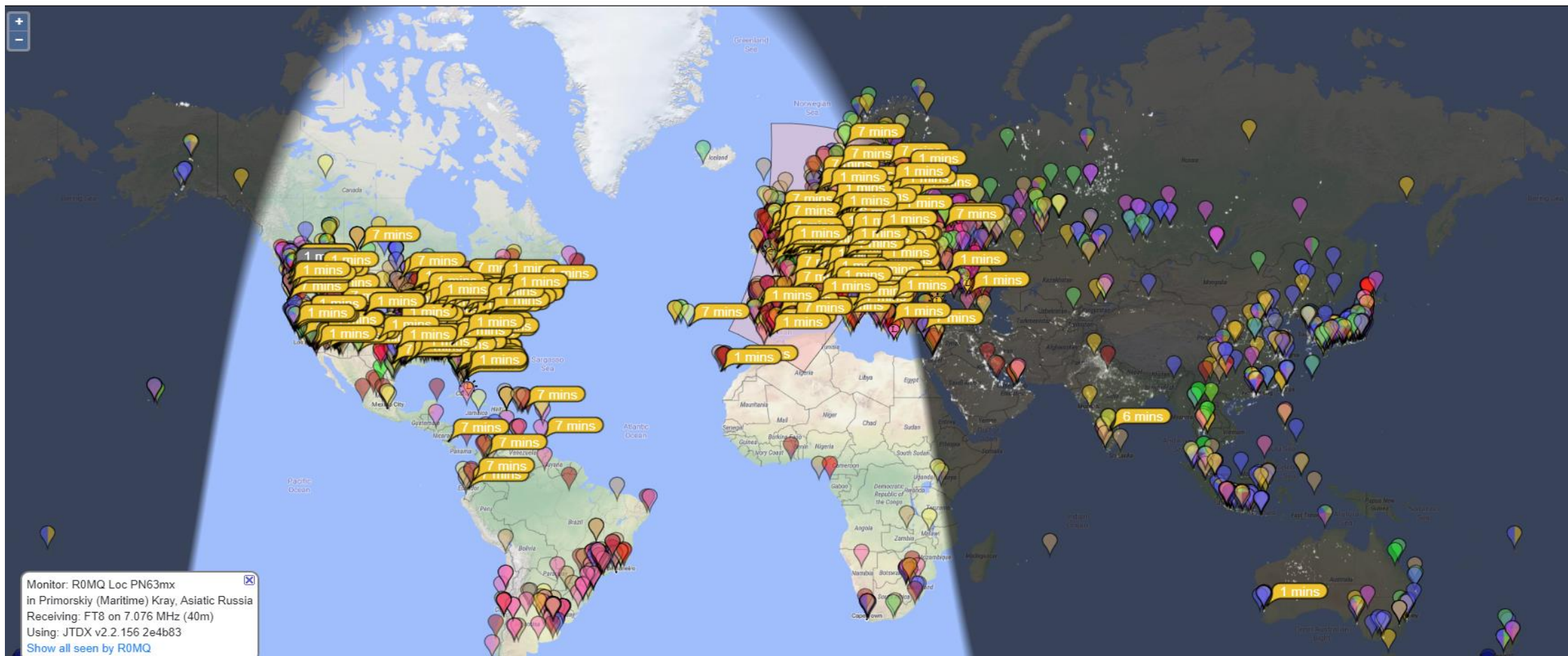
Record ID 1408879844 Received: 2021-10-06 20:52:59

PSKreporter.info

On show sent/rcvd by using over the last [Display options](#) [Permalink](#)

Monitoring N1RP (last heard 1 mins ago). Automatic refresh in 5 minutes. Small markers are the 121 transmitters (show logbook) heard (distance chart) at N1RP (1211 reports, 67 countries last 24 hours; 2587 reports, 77 countries last week).

There are 6257 active monitors: 1286 on 20m, 957 on 40m, 882 on 15m, 681 on 12m, 650 on 17m, 588 on 10m, 364 on 30m, 219 on 2m, 196 on 6m, 181 on 80m, 53 on unknown, 50 on 160m, 38 on 11m, 21 on 60m, 12 on 2200m, 9 on 70cm, 2 on uhf, 2 on 600m, 1 on 5m, 1 on 4m. [Legend](#)



Questions?

Lightning Rounds

Field Day 2026

an early look

Mark, K1RX & Rory, W1ENR

PCARC Field Day 2026

June 27-28

- 3A + GOTA K1R & W1WQM
- New 20-15-10 M antenna/Suspension system
- Feed system – 3 radio application
- Go Kit updates
- Shelter Update
- Celebrating 75 Years!

Lightning Rounds

WAS 250 Week 1 of 2

W1AW/1 NH

Summary

Sully, KC1WNM

NH Activation Week#1 - COMPLETE



16 active operators / 28 registered operators

operator	SUM of qso_ct
AE1P	3011
K1RO	382
K1RX	1941
KC1UKO	241
KC1VYM	13
KN1WDS	45
N1RP	388
WA1HXH	149
WM1H	21
Grand Total	6191

SUM of qso_ct	mode				
band	CW	DIGI	VOICE	Grand Total	
10M			14	2	16
15M	270		83	744	1097
17M	120		175		295
20M	569		296	2917	3782
30M			108		108
40M	188		230	364	782
80M	20		22	69	111
Grand Total	1167		928	4096	6191

***preliminary data
 **8 of 16 operators reporting
 **QSOs not confirmed by ARRL*



NH Activation Week#2 – Sept 16 - 22

IT'S INTERMISSION TIME!



Visit Our

Snack Bar!!

Buy your 50/50 Tickets
Return in 20 Minutes

Lightning Rounds Upcoming Contests Mark, KC1UKO

May Contests

WPX CW Contest – May 30-31

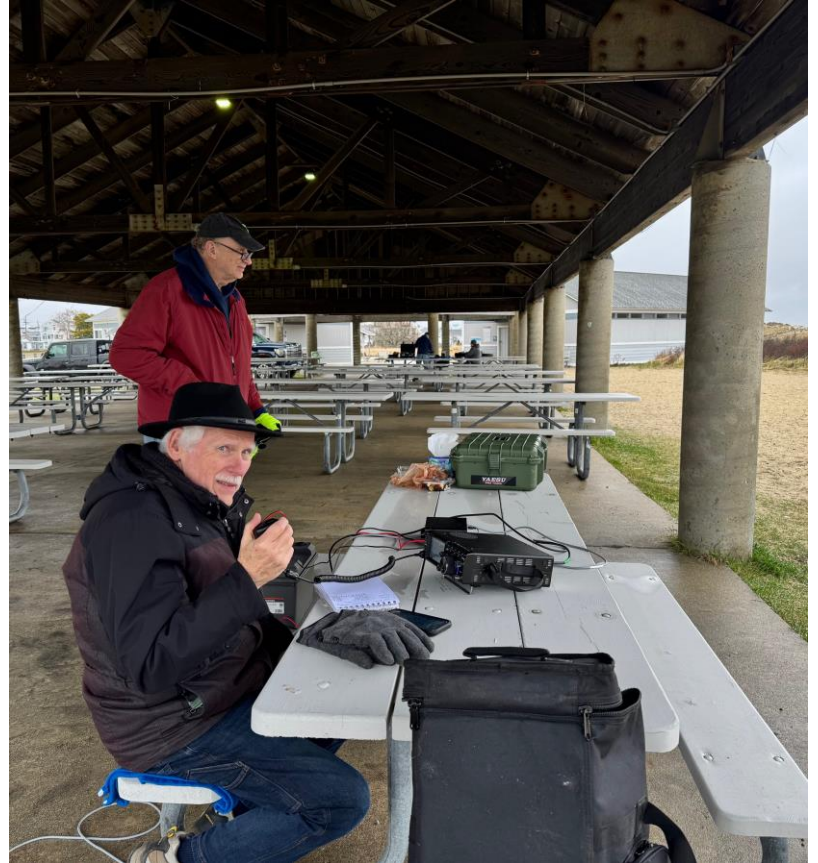
State/Province QSO

Canadian Prairies	17Z May 9 to 03Z May 10 (Alberta, Manitoba, and Saskatchewan)
Arkansas	14Z May 16 to 02Z May 17

Plus many others. Checkout www.contestcalendar.com for more information.

Lightning Rounds
POTA

Thom, K1TKT



POTA Lightning Round

POTA Picnics

- April 19th: First club POTA Picnic
 - PCARC joined by Great Bay > We're all here for POTA!
 - 36 QSOs, SSB and FT8 – W1WQM working toward that Kilo
- May 9th: 1200 ET; Hampton Beach State Park
 - Bring your own picnic food!
- June: Field day & Museum Ships = no POTA Picnic.
- Will plan for July & August. Stay tuned.

An aerial photograph showing a white pickup truck with a large lattice tower structure mounted on its bed. The truck is parked on a grassy field. To its right is a white sedan. The scene is overlaid with a grid of thin lines, possibly representing a drawing or a technical diagram. The text "50/50 Drawing" is written in yellow on the left side of the image.

50/50 Drawing

Motion to Adjourn

A solid green horizontal bar located at the bottom of the image.