Introduction to FT8 using WSJT-X

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An Introduction to FT8 using WSJT-X

1. How to set it up.
2. What else you might need for best results.
3. How to make a contact.

No Radio specific settings

Facts about WSJT-X and FT8

- WSJT-X was developed by Steven Franke, K9AN, and Joe Taylor K1JT in 2017and uses 8 tone FSK modulation
- Needs accurate timing +/- 1.0 seconds to UTC
- Shows signal strength (-26 dB to +30 dB)
- Designed for **QSO's** not "Rag Chewing"

- Logs contacts in ADIF format within the program
- Generates appropriate TX messages to complete QSO
- 75-bit message with 12-bit forward error correction
- 50 Hz bandwidth at 6.25 baud

- Exchanges call signs, grid square and signal report
- Multiband – standardized Frequencies on all supported bands
- **Weak Signal** mode – **low power** mode, 100 W typical
- Computer Aided Transceiver – (CAT) Compliant
- 10 different modes: FT4, FT8, JT4, JT9, JT65, QRA64, ISCAT, MSK144, WSPR, and Echo
- Fox/Hound Mode for DXPeditions

FT8 System Requirements

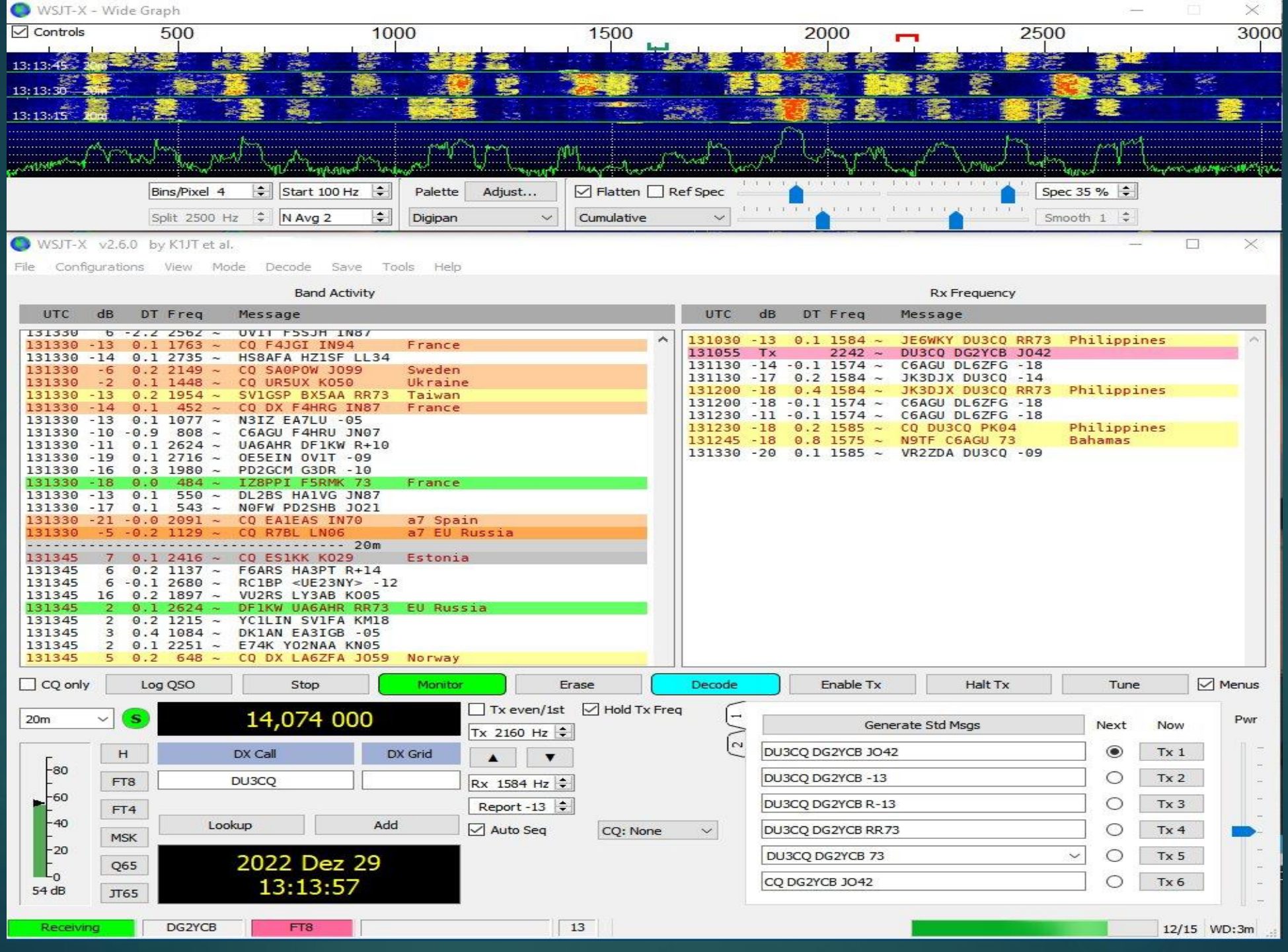
- SSB transceiver and antenna
- Computer running Windows 7 or later, macOS 10.13 or later, or Linux
- 1.5 GHz or faster CPU and 200 MB of available memory; faster machines are better
- Monitor with at least 1024 x 780 resolution
- Computer-to-radio interface using a serial port or USB device for T/R switching, or **CAT** control

- **Audio input and output soundcard** supported by the operating system
- Audio or equivalent USB connections between transceiver and computer
- A means for synchronizing the computer clock to UTC within ±1 second or better

Aids for WSJT-X and FT8

- **WSJT-X** –The main program (WSJT Home Page (sourceforge.io))
- **Dimension 4** – to keep your time synced (https://download.cnet.com/dimension-4/3000-2094_4-10039998.html)
- **HRD, N3FJP, DXLabs Suite** – Log your contacts
- **JT Alert** – (Hamapps.com) – handy dashboard

- **GridTracker** – (Gridtracker.org)
- **PSK Reporter** – (https://pskreporter.info/pskmap.html)
- **Groups.io** – (https://groups.io) Email group for FT8, Radios, etc.
- **ARRL - LoTW Quick Start**- VERY helpful (arrl.org/quick-start)


WSJT-X - Wide Graph
Controls
500
1000
1500
2000
2500
3000
13:13:45 20m
13:13:30 20m
13:13:15 20m
Bins/Pixel 4
Start 100 Hz
Palette
Adjust...
Flatten
Ref Spec
Spec 35 %
Split 2500 Hz
N Avg 2
Digipan
Cumulative
Smooth 1
WSJT-X v2.6.0 by K1JT et al.
File Configurations View Mode Decode Save Tools Help
Band Activity
Rx Frequency
UTC dB DT Freq Message
131330 -13 0.1 1763 ~ CQ F4JGI IN94 France
131330 -14 0.1 2735 ~ HS8AFA HZ1SF LL34
131330 -6 0.2 2149 ~ CQ SA0POW JO99 Sweden
131330 -2 0.1 1448 ~ CQ UR5UX KO50 Ukraine
131330 -13 0.2 1954 ~ SV1GSP BX5AA RR73 Taiwan
131330 -14 0.1 452 ~ CQ DX F4HRG IN87 France
131330 -13 0.1 1077 ~ N3IZ EA7LU -05
131330 -10 -0.9 808 ~ C6AGU F4HRU JN07
131330 -11 0.1 2624 ~ UA6AHR DF1KW R+10
131330 -19 0.1 2716 ~ OE5EIN OV1T -09
131330 -16 0.3 1980 ~ PD2GCM G3DR -10
131330 -18 0.0 484 ~ IZ8PPI F5RMK 73 France
131330 -13 0.1 550 ~ DL2BS HA1VG JN87
131330 -17 0.1 543 ~ N0FW PD2SHB JO21
131330 -21 -0.0 2091 ~ CQ EA1EAS IN70 a7 Spain
131330 -5 -0.2 1129 ~ CQ R7BL LN06 a7 EU Russia
20m
131345 7 0.1 2416 ~ CQ ES1KK KO29 Estonia
131345 6 0.2 1137 ~ F6ARS HA3PT R+14
131345 6 -0.1 2680 ~ RC1BP <UE23NY> -12
131345 16 0.2 1897 ~ VU2RS LY3AB KO05
131345 2 0.1 2624 ~ DF1KW UA6AHR RR73 EU Russia
131345 2 0.2 1215 ~ YC1LIN SV1FA KM18
131345 3 0.4 1084 ~ DK1AN EA3IGB -05
131345 2 0.1 2251 ~ E74K YO2NAA KN05
131345 5 0.2 648 ~ CQ DX LA6ZFA JO59 Norway
UTC dB DT Freq Message
131030 -13 0.1 1584 ~ JE6WKY DU3CQ RR73 Philippines
131055 Tx 2242 ~ DU3CQ DG2YCB JO42
131130 -14 -0.1 1574 ~ C6AGU DL6ZFG -18
131130 -17 0.2 1584 ~ JK3DJX DU3CQ -14
131200 -18 0.4 1584 ~ JK3DJX DU3CQ RR73 Philippines
131200 -18 -0.1 1574 ~ C6AGU DL6ZFG -18
131230 -11 -0.1 1574 ~ C6AGU DL6ZFG -18
131230 -18 0.2 1585 ~ CQ DU3CQ PK04 Philippines
131245 -18 0.8 1575 ~ N9TF C6AGU 73 Bahamas
131330 -20 0.1 1585 ~ VR2ZDA DU3CQ -09
CQ only
Log QSO
Stop
Monitor
Erase
Decode
Enable Tx
Halt Tx
Tune
Menus
20m
14,074 000
Tx even/1st
Hold Tx Freq
Tx 2160 Hz
Rx 1584 Hz
Report -13
Auto Seq
CQ: None
H
FT8
FT4
MSK
Q65
JT65
DX Call
DX Grid
DU3CQ
Lookup
Add
2022 Dez 29
13:13:57
54 dB
Generate Std Msgs
Next
Now
Pwr
DU3CQ DG2YCB JO42
DU3CQ DG2YCB -13
DU3CQ DG2YCB R-13
DU3CQ DG2YCB RR73
DU3CQ DG2YCB 73
CQ DG2YCB JO42
Tx 1
Tx 2
Tx 3
Tx 4
Tx 5
Tx 6
Receiving
DG2YCB
FT8
13
12/15
WD:3m

Signal / Noise Ratio

SSB	+10 dB
CW	-15 dB
FT8	-21 dB
JT65	-25 dB
JT9	-27 dB
WSPR	-31 dB

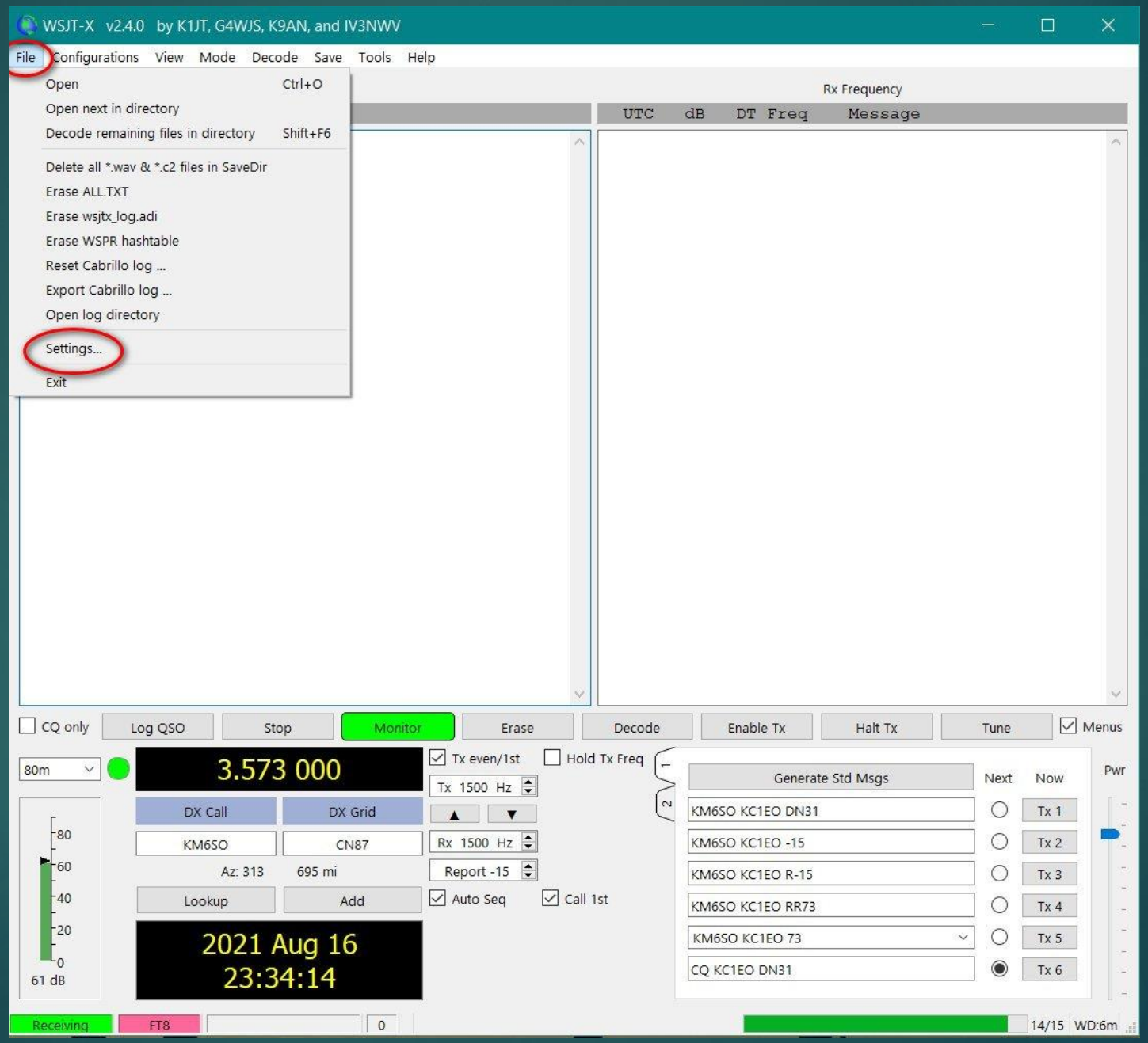
2500 Hz bandwidth

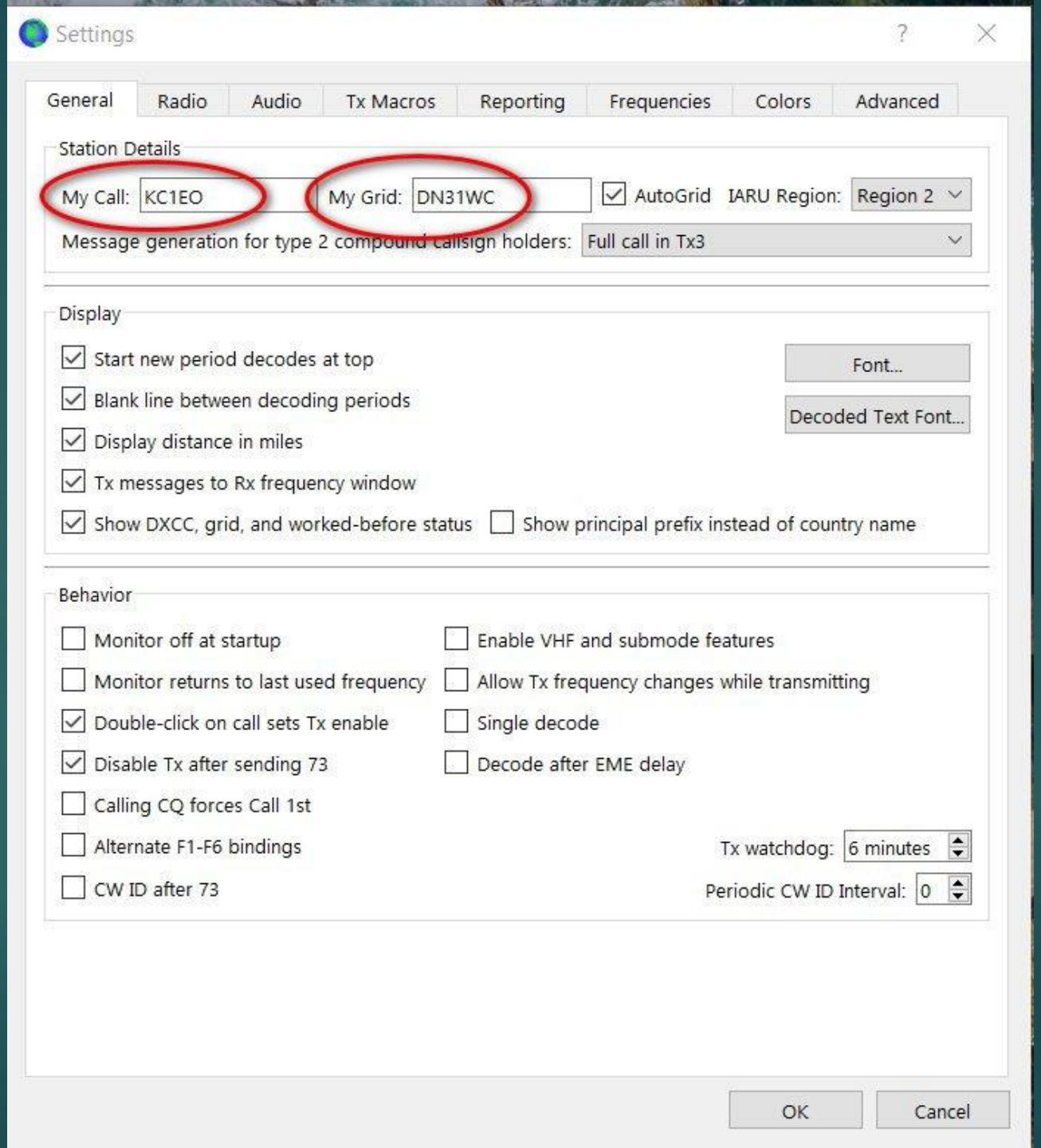
Doubling power results in a 3 dB increase in SNR

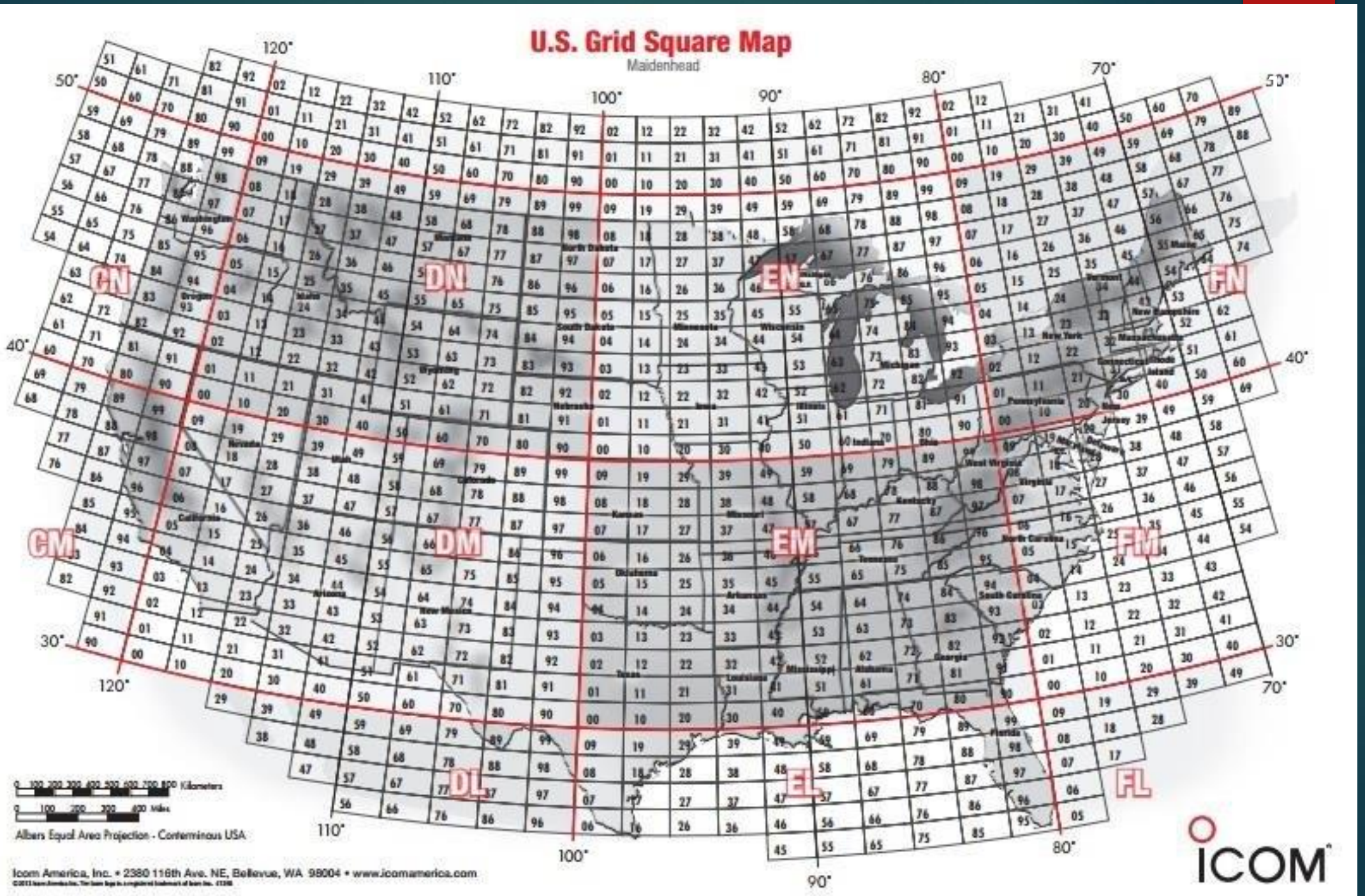
31dB difference is about 2^10 = 1,024

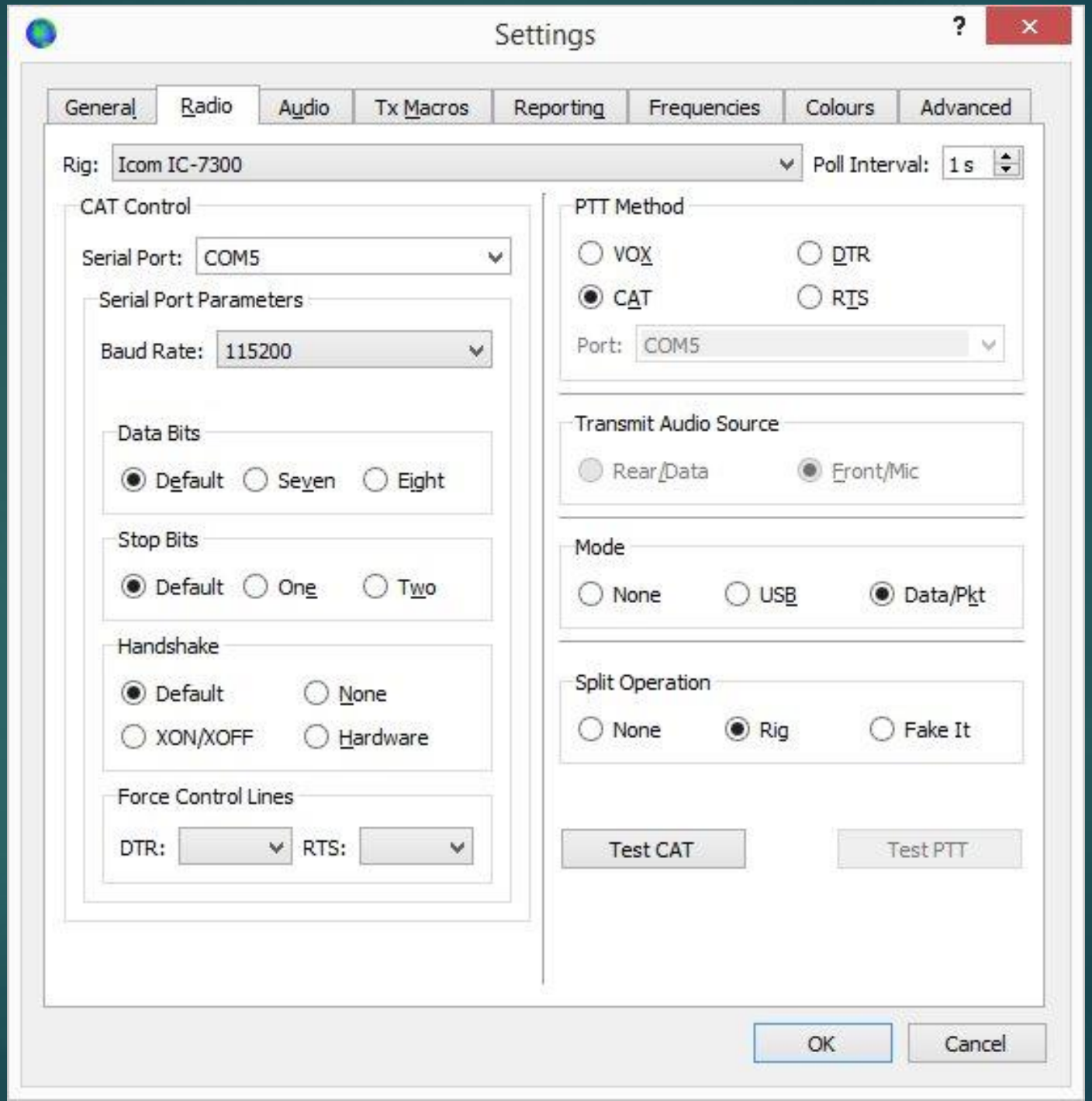
1W FT8 vs 1,024W SSB

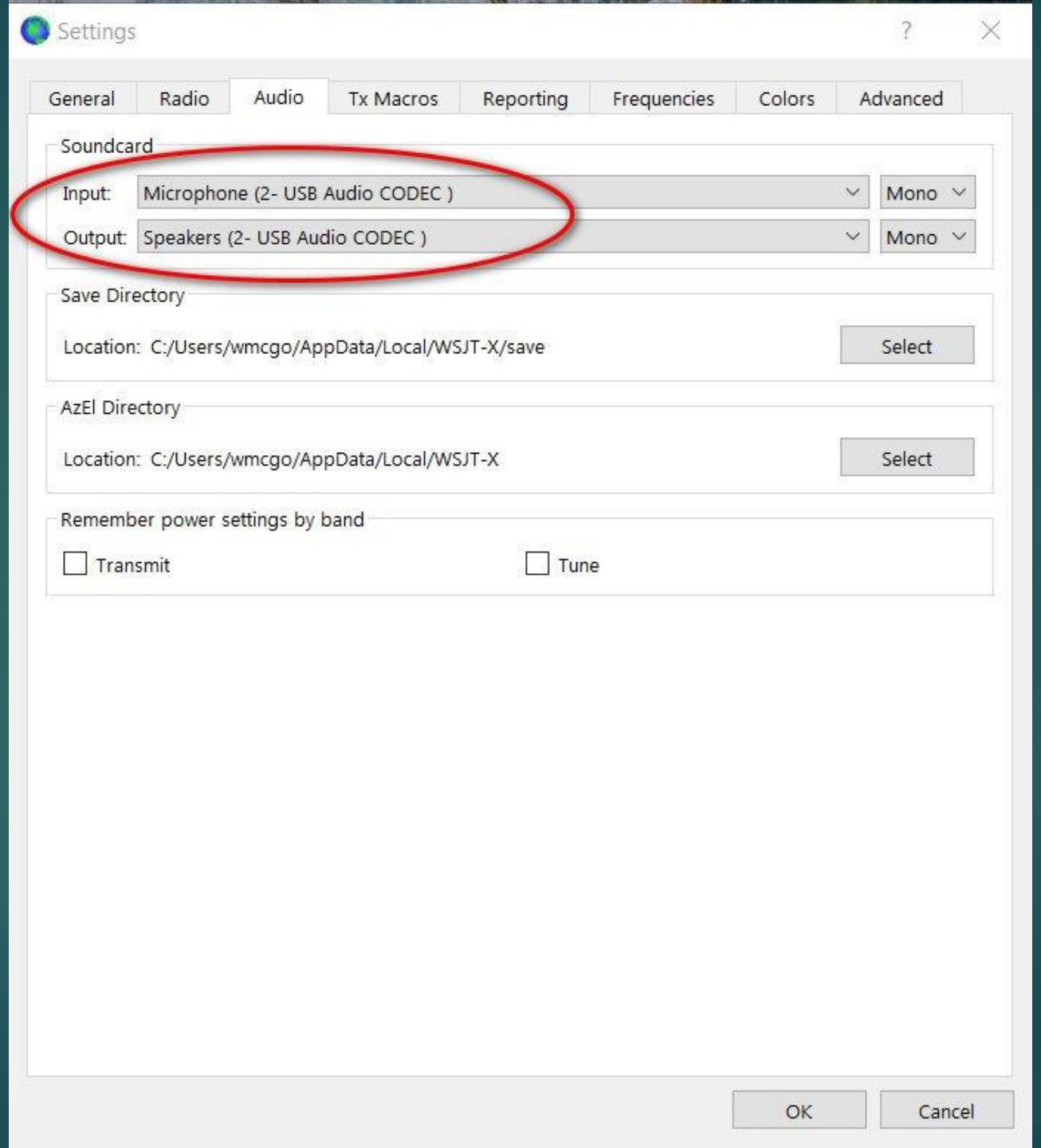
Settings changes are made on the following tabs

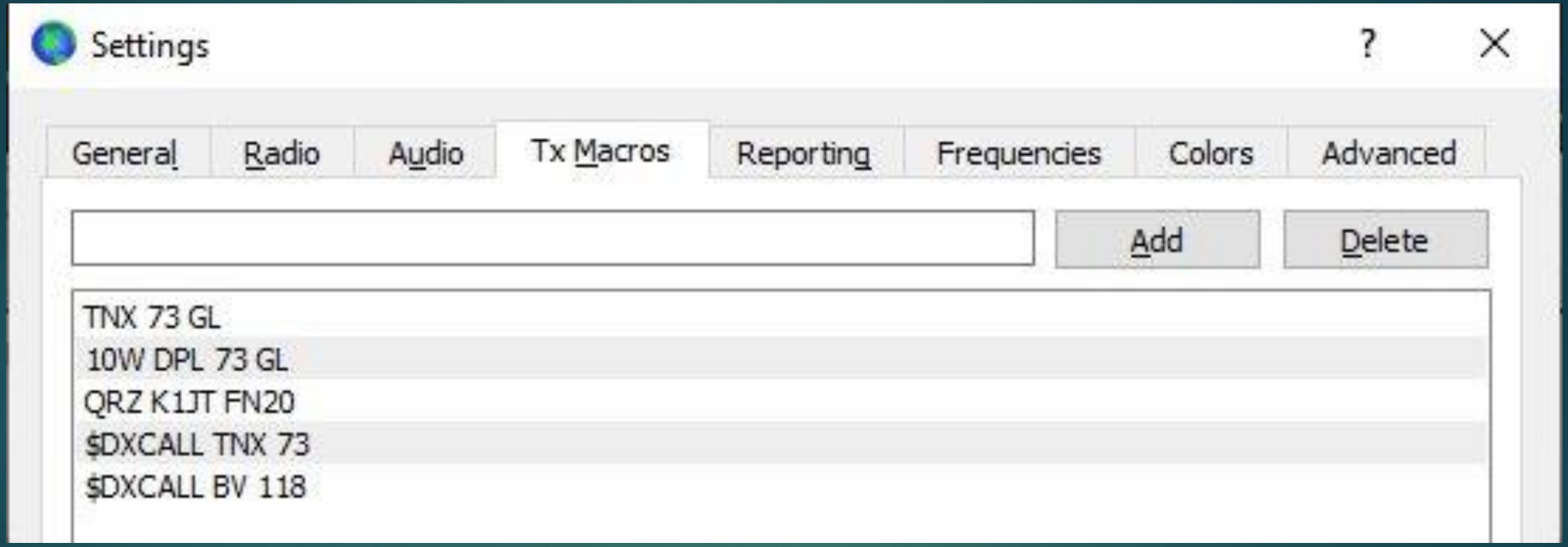



Settings
General
Radio
Audio
Tx Macros
Reporting
Frequencies
Colors
Advanced
Station Details
My Call: KC1EO
My Grid: DN31WC
AutoGrid
IARU Region: Region 2
Message generation for type 2 compound callsign holders: Full call in Tx3
Display
Start new period decodes at top
Blank line between decoding periods
Display distance in miles
Tx messages to Rx frequency window
Show DXCC, grid, and worked-before status
Show principal prefix instead of country name
Font...
Decoded Text Font...
Behavior
Monitor off at startup
Monitor returns to last used frequency
Double-click on call sets Tx enable
Disable Tx after sending 73
Calling CQ forces Call 1st
Alternate F1-F6 bindings
CW ID after 73
Enable VHF and submode features
Allow Tx frequency changes while transmitting
Single decode
Decode after EME delay
Tx watchdog: 6 minutes
Periodic CW ID Interval: 0
OK
Cancel

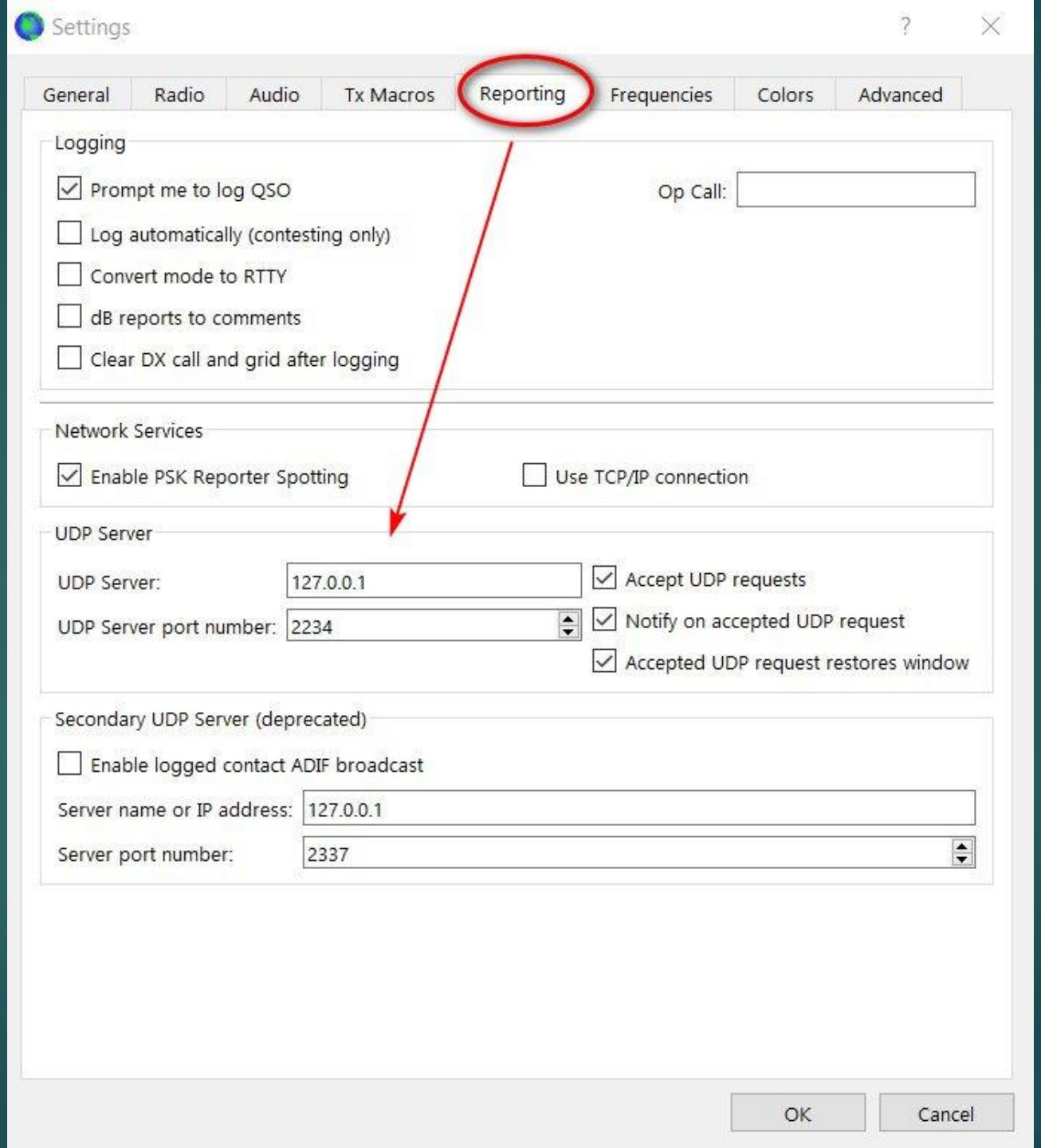

U.S. Grid Square Map
Maidenhead
120°
110°
100°
90°
80°
70°
50°
40°
30°
CN
DN
EN
FN
CM
DM
EM
FM
DL
EL
FL
Albers Equal Area Projection - Conterminous USA
Icom America, Inc. • 2380 116th Ave. NE, Bellevue, WA 98004 • www.icomamerica.com
ICOM


Settings
General
Radio
Audio
Tx Macros
Reporting
Frequencies
Colours
Advanced
Rig: Icom IC-7300
Poll Interval: 1 s
CAT Control
Serial Port: COM5
Serial Port Parameters
Baud Rate: 115200
Data Bits
Default Seven Eight
Stop Bits
Default One Two
Handshake
Default None
XON/XOFF Hardware
Force Control Lines
DTR: RTS:
PTT Method
VOX DTR
CAT RTS
Port: COM5
Transmit Audio Source
Rear/Data Front/Mic
Mode
None USB Data/Pkt
Split Operation
None Rig Fake It
Test CAT
Test PTT
OK
Cancel


Settings
General
Radio
Audio
Tx Macros
Reporting
Frequencies
Colors
Advanced
Soundcard
Input:
Microphone (2- USB Audio CODEC)
Mono
Output:
Speakers (2- USB Audio CODEC)
Mono
Save Directory
Location: C:/Users/wmcgo/AppData/Local/WSJT-X/save
Select
AzEl Directory
Location: C:/Users/wmcgo/AppData/Local/WSJT-X
Select
Remember power settings by band
Transmit
Tune
OK
Cancel

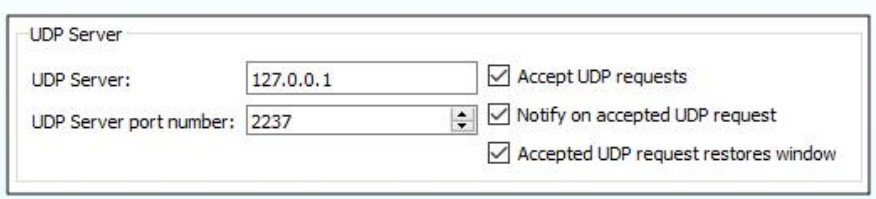


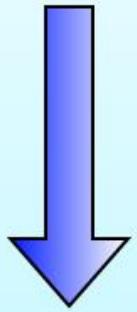
Tx Macros are an aid for sending brief, frequently used free-text messages.


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:
127.0.0.1
Accept UDP requests
UDP Server port number:
2234
Notify on accepted UDP request
Accepted UDP request restores window
Secondary UDP Server (deprecated)
Enable logged contact ADIF broadcast
Server name or IP address:
127.0.0.1
Server port number:
2337
OK
Cancel

WSJT-X Data to One Application

WSJT-X

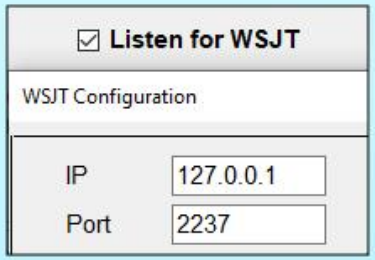




Local Unicast

WSJT-X sends to one local application

ACLog



http://n3fjp.com/help/wsjt-x-integration-with-n3fjp-software.html

WSJT-X Data to Multiple Applications

WSJT-X

UDP Server

UDP Server:	224.0.0.1	☑ Accept UDP requests
UDP Server port number:	2237	☑ Notify on accepted UDP request
Outgoing interfaces:	ethernet_32773, loopback_0	☑ Accepted UDP request restores window
Multicast TTL:	1	

Multicast

WSJT-X sends to all applications both locally and on Local Area Network

If another station operator is on the same network, use a different port as to not interfere

ACLog

☑ **Listen for WSJT**

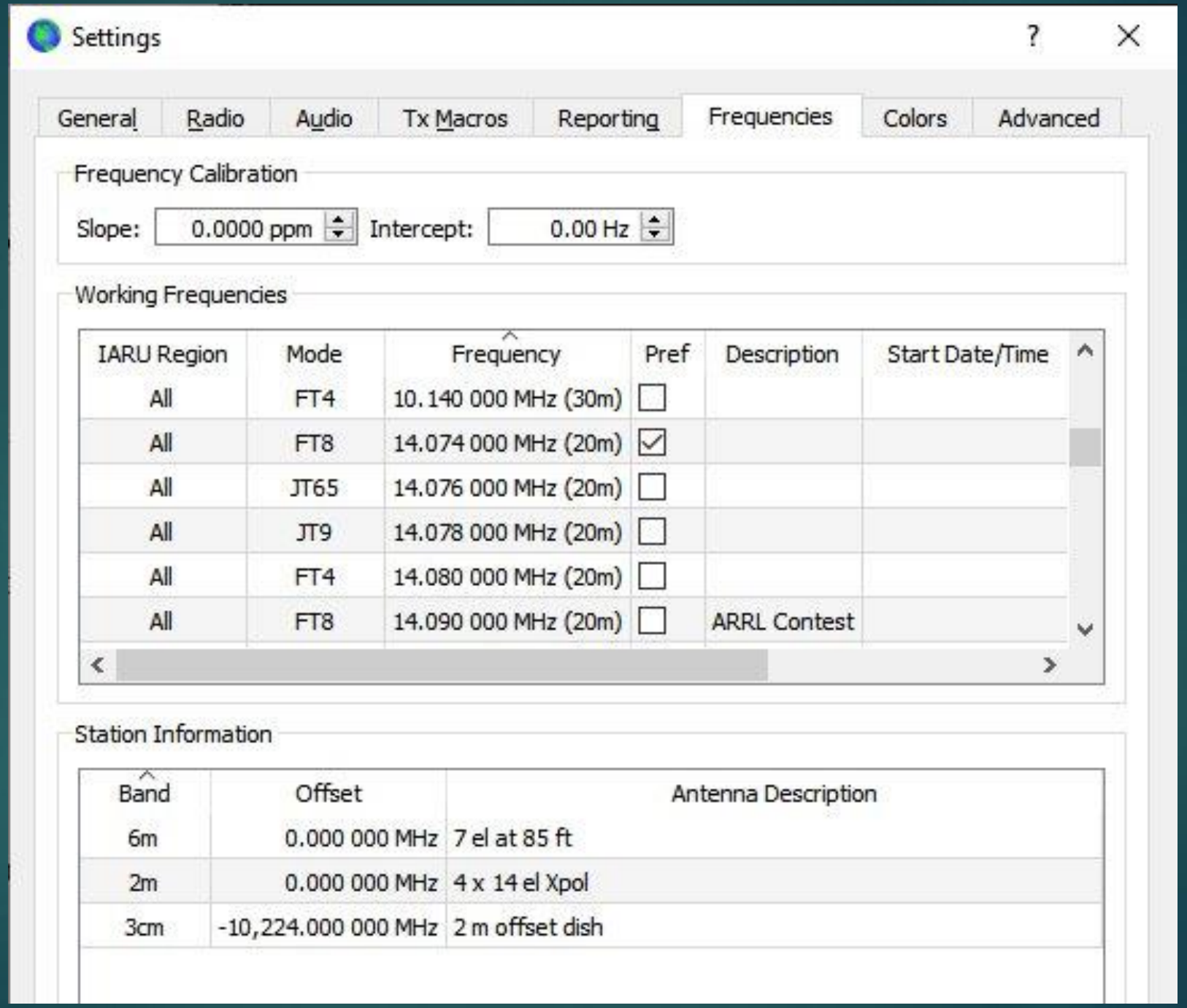
WSJT Configuration

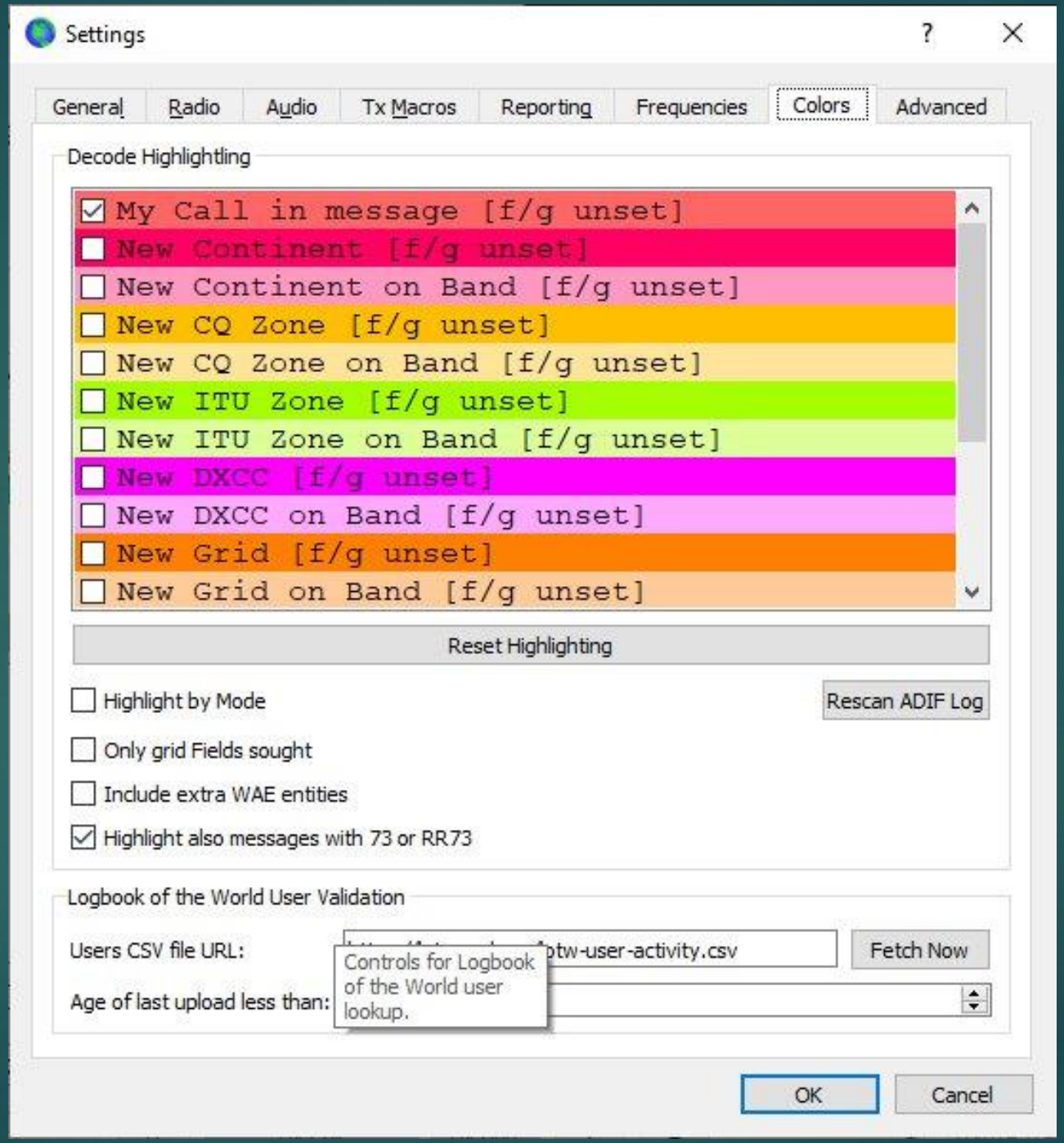
IP	224.0.0.1
Port	2237

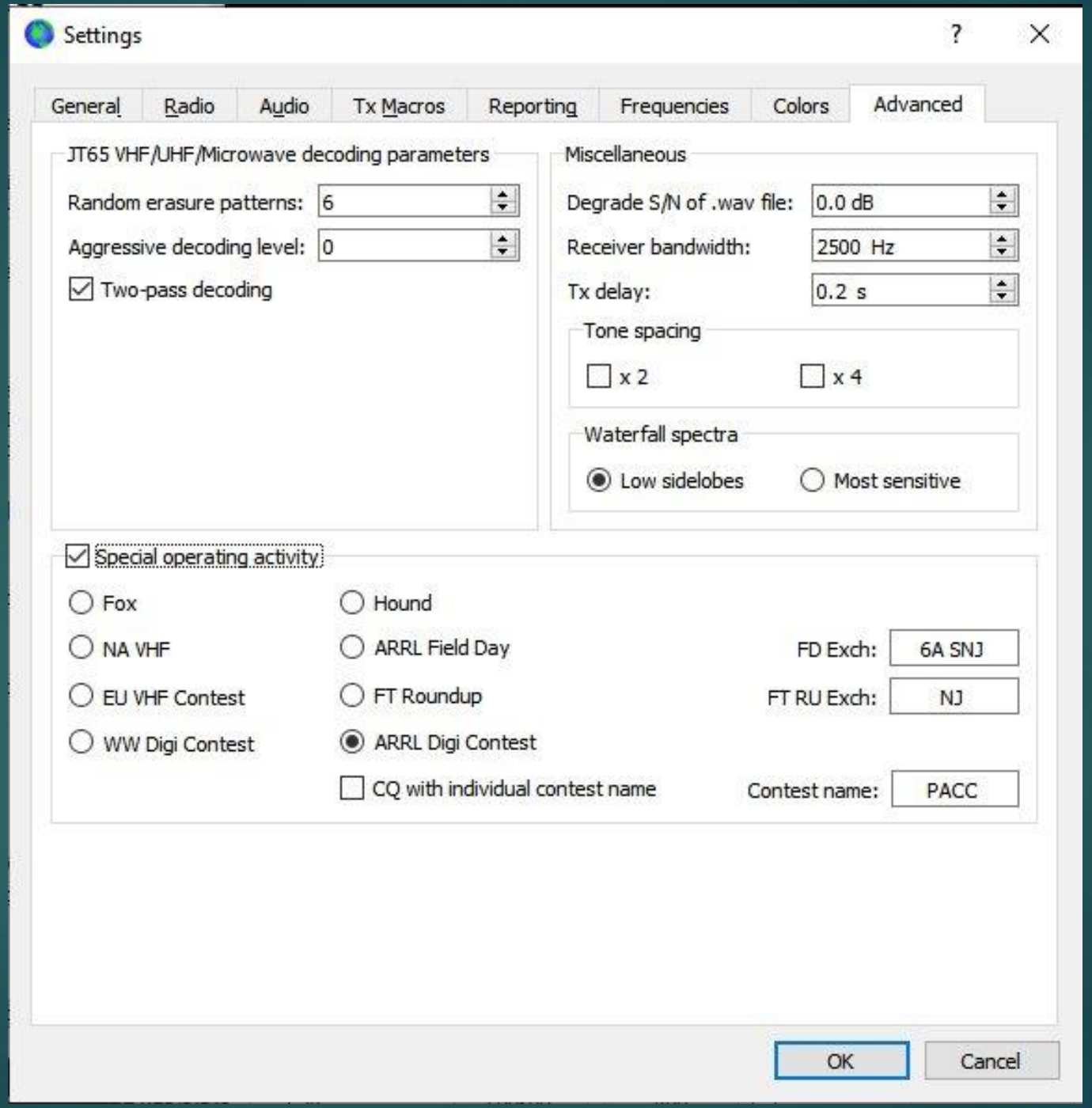
Grid Tracker

JTAlert

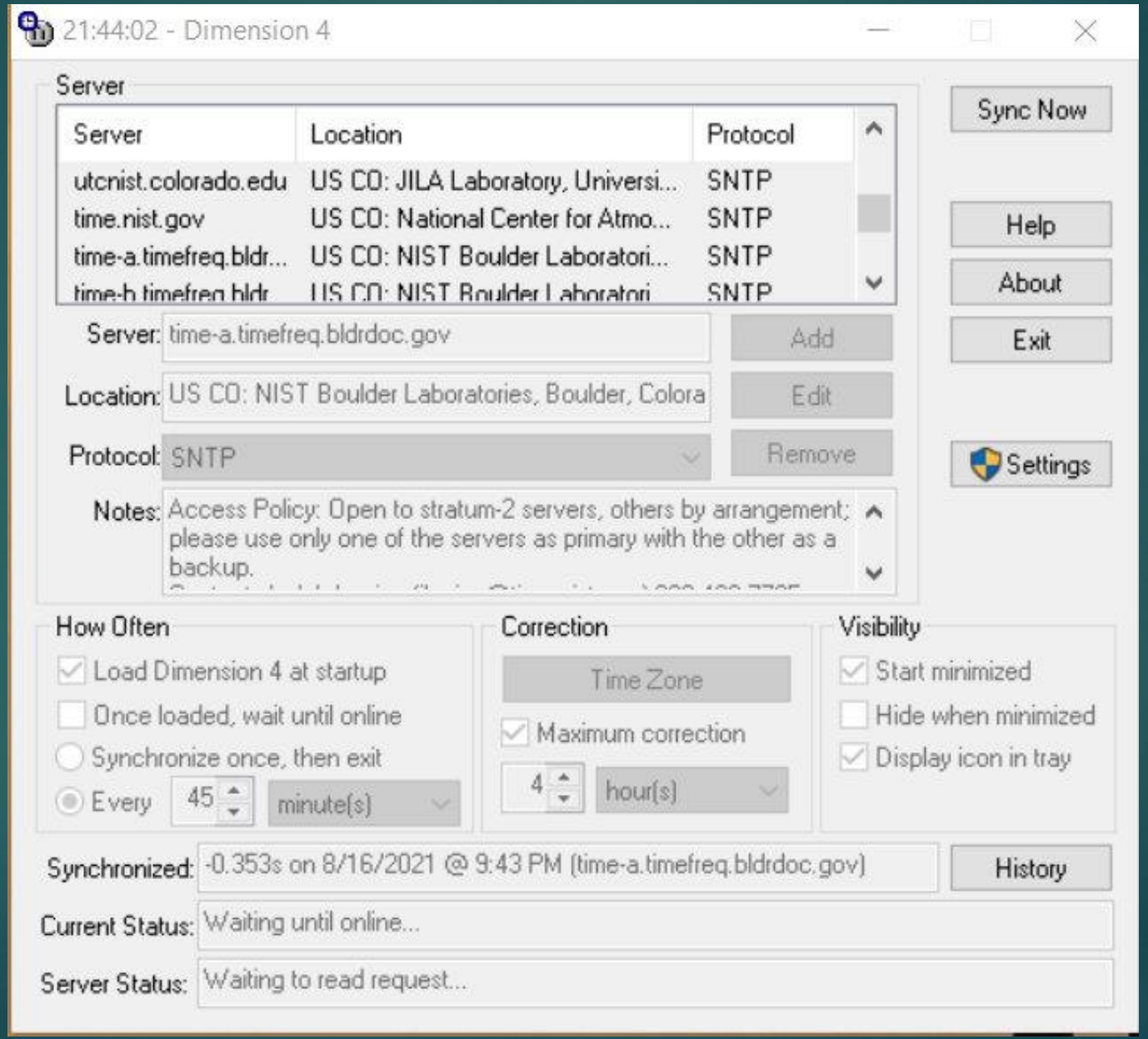
http://n3fjp.com/help/wsjt-x-integration-with-n3fjp-software.html

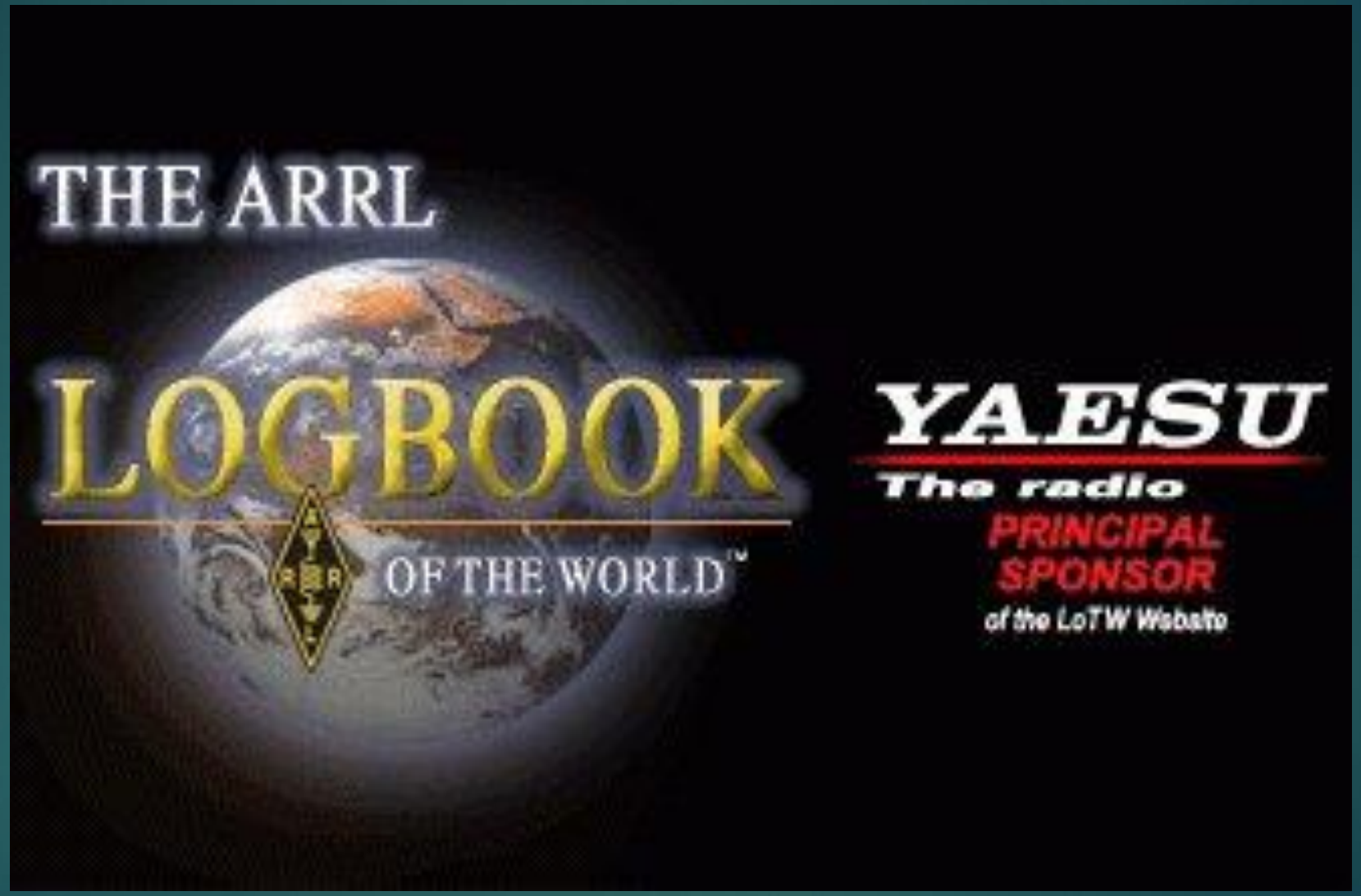

Settings
General
Radio
Audio
Tx Macros
Reporting
Frequencies
Colors
Advanced
Frequency Calibration
Slope: 0.0000 ppm
Intercept: 0.00 Hz
Working Frequencies
IARU Region | Mode | Frequency | Pref | Description | Start Date/Time
All | FT4 | 10.140 000 MHz (30m)
All | FT8 | 14.074 000 MHz (20m)
All | JT65 | 14.076 000 MHz (20m)
All | JT9 | 14.078 000 MHz (20m)
All | FT4 | 14.080 000 MHz (20m)
All | FT8 | 14.090 000 MHz (20m) | ARRL Contest
Station Information
Band | Offset | Antenna Description
6m | 0.000 000 MHz | 7 el at 85 ft
2m | 0.000 000 MHz | 4 x 14 el Xpol
3cm | -10,224.000 000 MHz | 2 m offset dish


Settings
General
Radio
Audio
Tx Macros
Reporting
Frequencies
Colors
Advanced
Decode Highlighting
My Call in message [f/g unset]
New Continent [f/g unset]
New Continent on Band [f/g unset]
New CQ Zone [f/g unset]
New CQ Zone on Band [f/g unset]
New ITU Zone [f/g unset]
New ITU Zone on Band [f/g unset]
New DXCC [f/g unset]
New DXCC on Band [f/g unset]
New Grid [f/g unset]
New Grid on Band [f/g unset]
Reset Highlighting
Highlight by Mode
Rescan ADIF Log
Only grid Fields sought
Include extra WAE entities
Highlight also messages with 73 or RR73
Logbook of the World User Validation
Users CSV file URL:
Fetch Now
Age of last upload less than:
Controls for Logbook of the World user lookup.
OK
Cancel


Settings
General
Radio
Audio
Tx Macros
Reporting
Frequencies
Colors
Advanced
JT65 VHF/UHF/Microwave decoding parameters
Random erasure patterns: 6
Aggressive decoding level: 0
Two-pass decoding
Miscellaneous
Degrade S/N of .wav file: 0.0 dB
Receiver bandwidth: 2500 Hz
Tx delay: 0.2 s
Tone spacing
x 2
x 4
Waterfall spectra
Low sidelobes
Most sensitive
Special operating activity
Fox
Hound
NA VHF
ARRL Field Day
EU VHF Contest
FT Roundup
WW Digi Contest
ARRL Digi Contest
CQ with individual contest name
FD Exch: 6A SNJ
FT RU Exch: NJ
Contest name: PACC
OK
Cancel

Synchronize Computer Clock




THE ARRL
LOGBOOK
OF THE WORLD™
YAESU
The radio
PRINCIPAL
SPONSOR
of the LoTW Wsbsito

New Query

25 Records Shown (1-25)
Sorted by QSO Date (0.005168 seconds elapsed)

Next

	Call sign	Worked	Date/Time	Band	Mode	Freq	QSL
Details	KC1EO	W1WSF	2023-10-30 13:57:15	17M	FT8	18.10120	UNITED STATES OF AMERICA
Details	KC1EO	KE3ZT	2023-10-30 13:49:45	20M	FT8	14.07523	UNITED STATES OF AMERICA
Details	KC1EO	KC1QYD	2023-10-30 13:47:00	20M	FT8	14.07523	
Details	KC1EO	KB8YTD	2023-10-30 13:42:15	30M	FT8	10.13713	UNITED STATES OF AMERICA
Details	KC1EO	KT7N	2023-10-30 13:38:30	40M	FT8	7.07510	
Details	KC1EO	K5CM	2023-10-30 13:37:00	40M	FT8	7.07510	
Details	KC1EO	K1LEC	2023-10-30 13:32:45	40M	FT8	7.07510	UNITED STATES OF AMERICA
Details	KC1EO	KD5ZLR	2023-10-30 13:31:45	40M	FT8	7.07510	UNITED STATES OF AMERICA
Details	KC1EO	KQ0Q	2023-10-30 13:29:45	40M	FT8	7.07510	UNITED STATES OF AMERICA
Details	KC1EO	K4TER	2023-10-29 14:09:15	20M	FT8	14.07520	UNITED STATES OF AMERICA
Details	KC1EO	K5LVC	2023-10-29 14:04:45	20M	FT8	14.07510	
Details	KC1EO	VE3UIN	2023-10-29 14:03:45	20M	FT8	14.07510	
Details	KC1EO	KO4DBP	2023-10-29 14:01:15	20M	FT8	14.07510	UNITED STATES OF AMERICA
Details	KC1EO	JM8BPM	2023-10-29 13:54:45	30M	FT8	10.13750	
Details	KC1EO	N7BFO	2023-10-29 13:51:45	30M	FT8	10.13750	UNITED STATES OF AMERICA
Details	KC1EO	7N4WPY	2023-10-29 13:45:15	40M	FT8	7.07547	JAPAN
Details	KC1EO	JH7AUL	2023-10-29 13:41:45	40M	FT8	7.07547	JAPAN
Details	KC1EO	AA0HJ	2023-10-29 13:41:00	40M	FT8	7.07547	UNITED STATES OF AMERICA
Details	KC1EO	K0KDO	2023-10-29 13:38:45	40M	FT8	7.07547	
Details	KC1EO	JQ7BQT	2023-10-29 13:37:00	40M	FT8	7.07547	JAPAN
Details	KC1EO	N7CEE	2023-10-29 13:36:56	40M	FT8	7.07547	
Details	KC1EO	JA1QOW	2023-10-29 13:33:15	40M	FT8	7.07547	
Details	KC1EO	N0NIY	2023-10-29 13:28:00	40M	FT8	7.07540	UNITED STATES OF AMERICA
Details	KC1EO	KJ7ZHG	2023-10-29 13:26:00	40M	FT8	7.07540	
Details	KC1EO	JO4JDU	2023-10-29 01:59:00	17M	FT8	18.10140	

Next

Most recent QSO record received 2023-10-30 14:10:51Z

Select QSOs to List

Call sign worked: May use wildcards (? and *)

Your call sign: - Any -

Submit Query Form

Submit

Common Queries

Your Logbook DXCC Account (- UNITED STATES OF AMERICA)

Account Status

DXCC Award	New LoTW QSLs	LoTW QSLs in Process	DXCC Credits Awarded	Total (All)	Total (Current)
Mixed *	19	0	252	271	266
CW	0	0	12	12	12
Phone	15	0	245	260	255
Digital	103	0	0	103	103
80M	6	0	2	8	8
40M	42	0	2	44	44
30M	77	0	0	77	77
20M	57	0	106	163	159
17M	53	0	0	53	53
15M	50	0	110	160	160
12M	6	0	0	6	6
10M	62	0	92	154	151
Challenge	353	0	305	---	658

* = Award has been issued

View Award Credit Matrix

This account includes credits for the following:

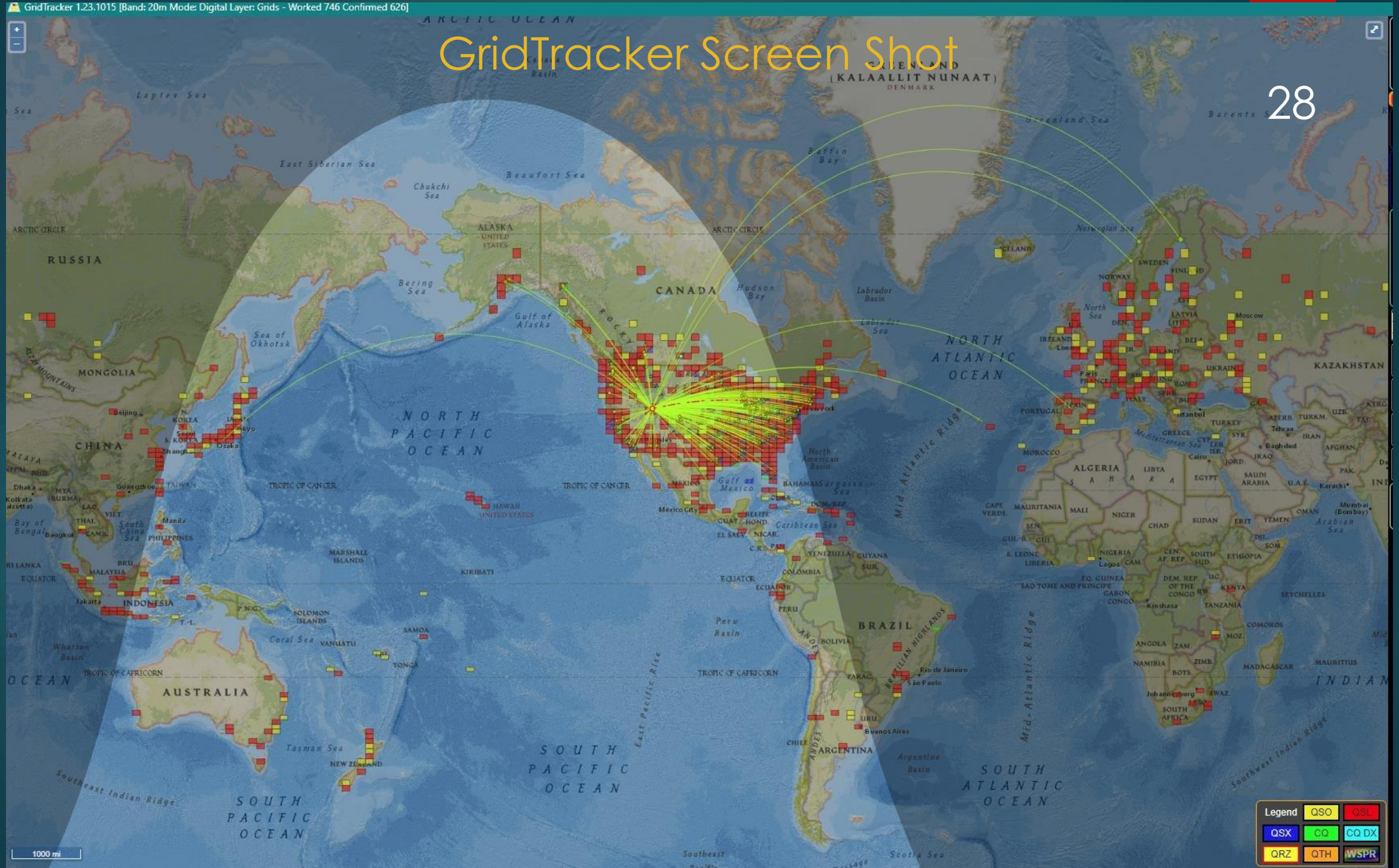
- UNITED STATES OF AMERICA

This account is linked with DXCC record:

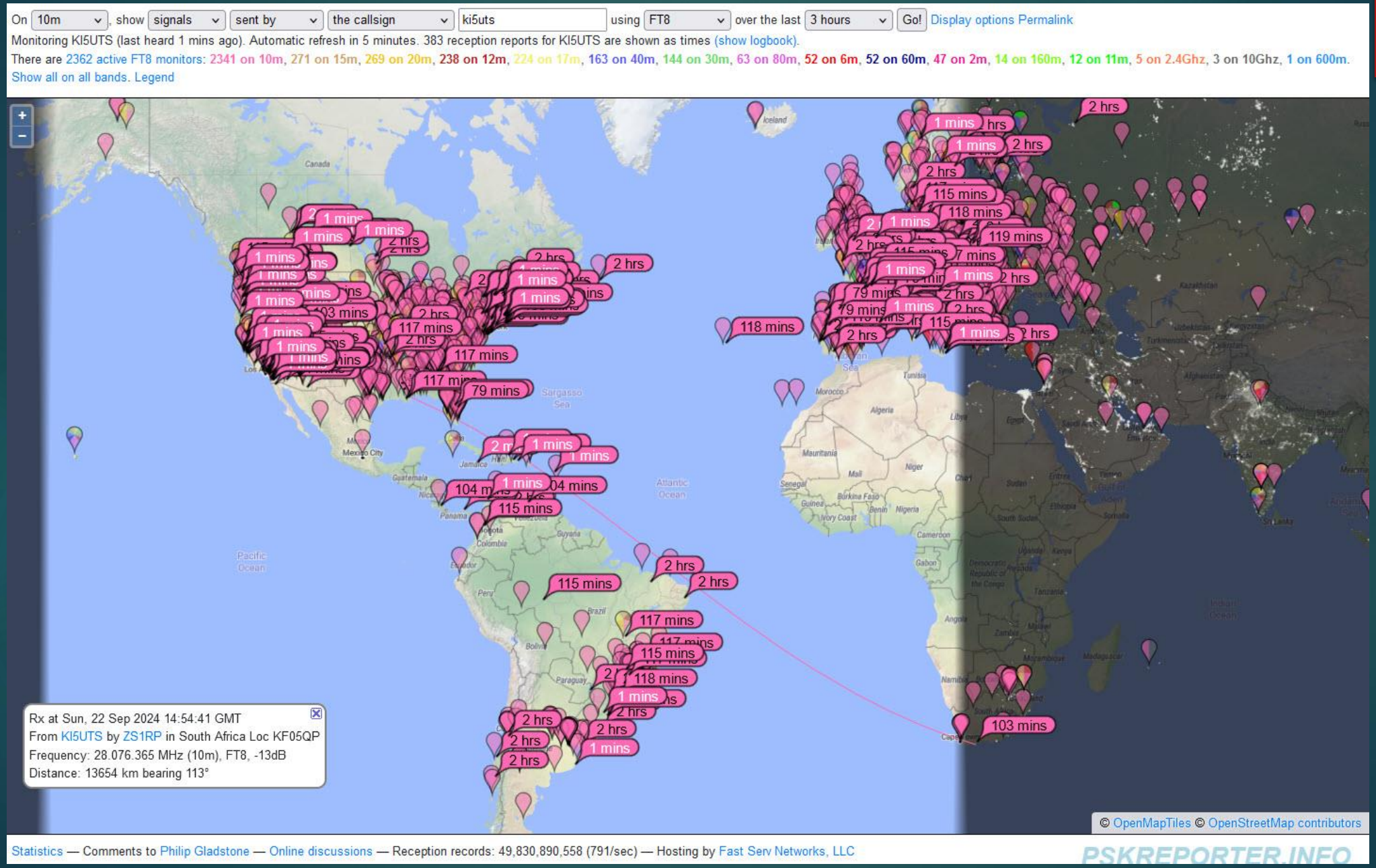
Notes

- Click on the **Awards** item in the menu at the top of the page to select a different LoTW award account.
- You can click on the links in the Account Status table to view the credit list for an individual award.
- When you are ready to apply your LoTW credits to your DXCC record, use Application
- To view the present and past applications you have submitted, use Application History.
- For an ADIF download with the details of all QSLs in your DXCC record use DXCC QSL Download.

GridTracker Screen Shot



PSK Reporter Screen Shot



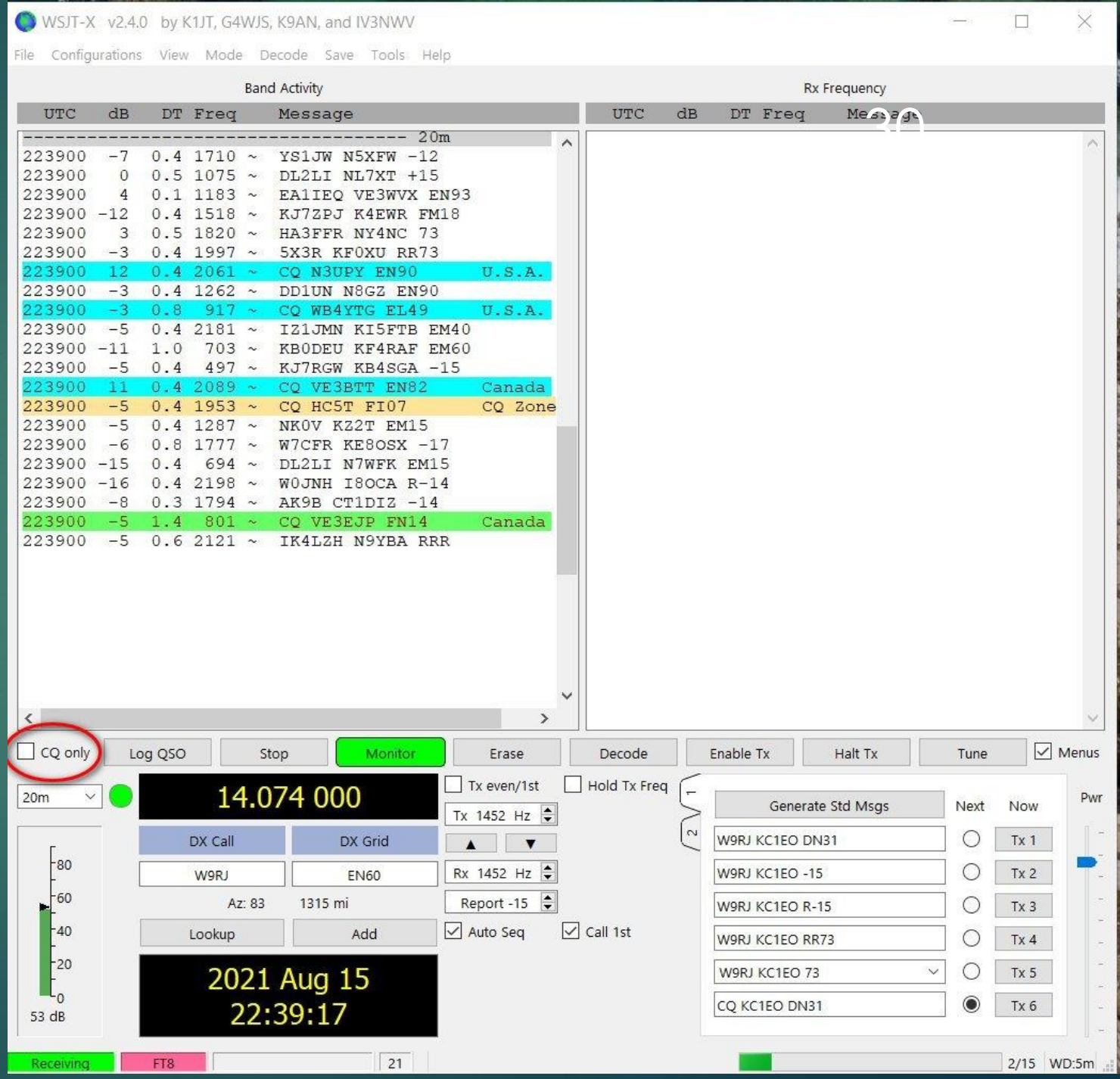
There is A LOT going on.

You must decide whose CQ you want to return. Have you worked them before? How strong are they to your QTH?

Do you need them for a Prefix or DXCC or WAS? You have 15 seconds to decide tick..tick..tick..

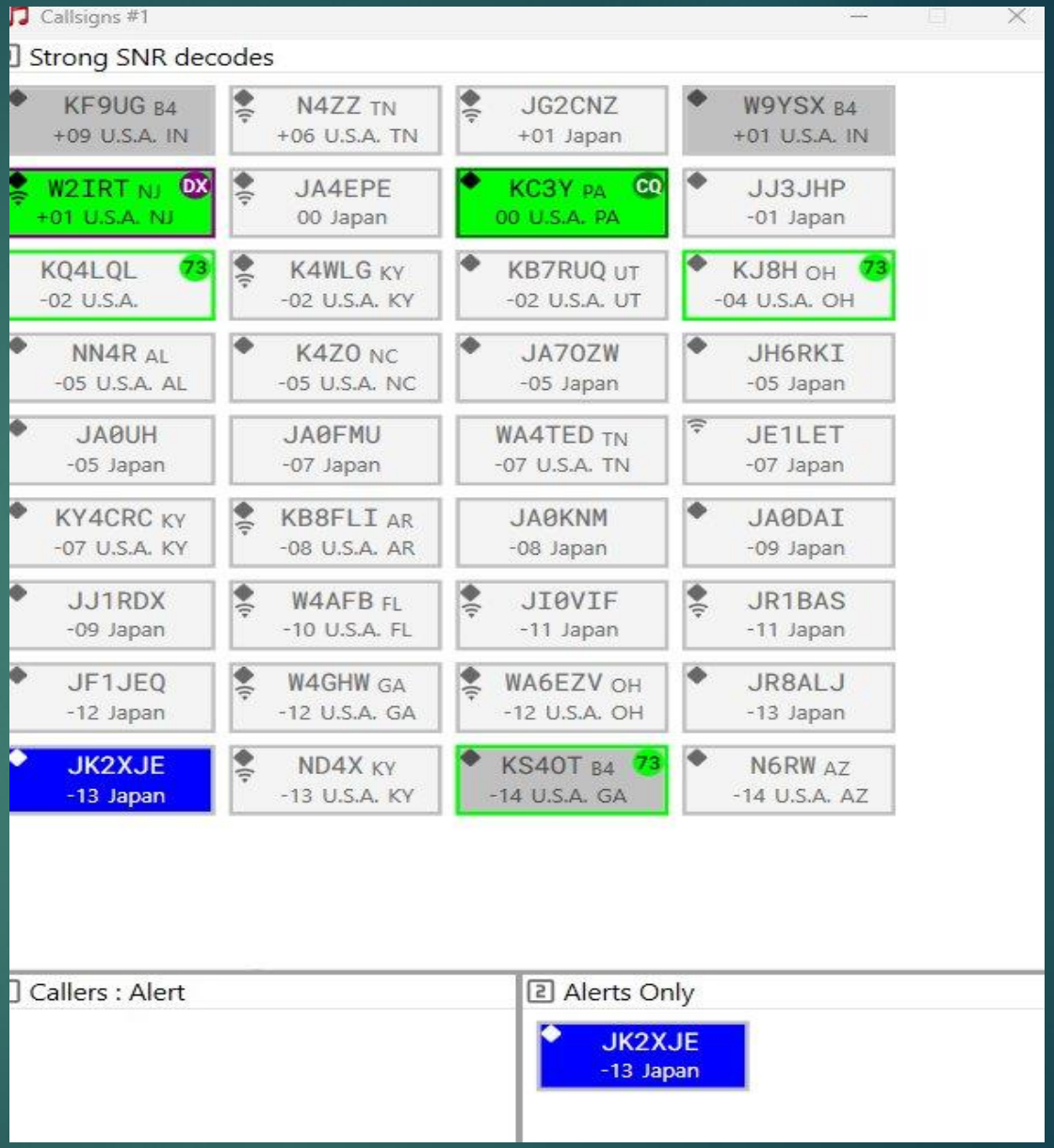
TIME'S UP!!!!!!!!

Can we do anything to help us decide????????? Easiest way is to reduce the number of decodes you see by checking the CQ only box……OR……use the "JT Alert" program



JT Alert

Helps make better informed decisions quickly. Incoming calls can be sorted by signal strength. Countries and US counties are identified as well as needed prefixes.



QSO in progress

Band Activity

UTC	dB	DT	Freq		Message	
					40m	
043400	15	0.2	797	~	CQ AK9B DM61	U.S.A.
043400	3	-0.1	584	~	W4NRG XE2JS RR73	
043400	4	-1.4	1593	~	K7NWT KD9OFJ 73	
043400	3	0.5	1298	~	CQ KI6NAZ DM03	U.S.A.
043400	6	0.1	2050	~	N0POH KD2QAR FN02	
043400	0	-0.1	1689	~	LY1CX K9TF EN63	
043400	-3	0.2	2250	~	CQ DX KO4DCR EL98	U.S.A.
043400	-7	0.7	1492	~	CQ VE3ELL FN04	Canada
043400	1	0.2	1385	~	CQ N0YEP EN33	U.S.A.
043400	0	0.1	2117	~	SP1MGM KG4AKV -16	
043400	-4	0.9	1001	~	W0L W1BUS CN85	
043400	-7	0.2	1780	~	CQ EA7CK IM76	CQ Zone
043400	5	0.1	1931	~	CQ DX N9TNY EN51	U.S.A.
043400	-1	0.4	2168	~	KB6OQJ F5LOW -14	
043400	4	0.2	1953	~	<S5030XX> KU0G EM38	
043400	-1	0.1	748	~	G6MND KB9JJA EM48	
043400	-15	0.1	692	~	ZL1VAH WA6GXQ FM06	
043400	-6	0.2	1386	~	M3FON N4MEC FM06	
043400	-14	0.2	1557	~	N0POH K4NDN FM08	
043400	-22	0.1	480	~	<...> KN4JCD R-15	
043400	-18	0.2	1544	~	XE1YO YS1RS -09	
043400	-17	0.3	2637	~	CQ W7OK CN86	U.S.A.

Rx Frequency

UTC	dB	DT	Freq		Message	
043130	4	0.4	871	~	CQ PT7ZZ HI06	CQ
043148	Tx		871	~	PT7ZZ KC1EO DN31	
043200	-7	0.4	871	~	CQ PT7ZZ HI06	CQ
043215	Tx		871	~	PT7ZZ KC1EO DN31	
043230	-5	0.4	870	~	CQ PT7ZZ HI06	CQ
043230	8	0.1	797	~	CQ AK9B DM61	U.S
043245	Tx		797	~	AK9B KC1EO DN31	
043300	15	0.1	797	~	KC1EO AK9B -13	
043315	Tx		797	~	AK9B KC1EO R+15	
043330	6	0.1	797	~	KC1EO AK9B RR73	
043345	Tx		797	~	AK9B KC1EO 73	
043400	15	0.2	797	~	CQ AK9B DM61	U.S

Here is a typical QSO

AK9B calls CQ with callsign and grid.
KC1EO answers with call sign and grid
AK9B responds with signal report
KC1EO returns signal report
AK9B sends RR73
KC1EO sends 73
AK9B sends CQ looking for next QS0

How do we make a contact:
Search and Pounce or Call CQ or Fox/Hound)

Search and Pounce

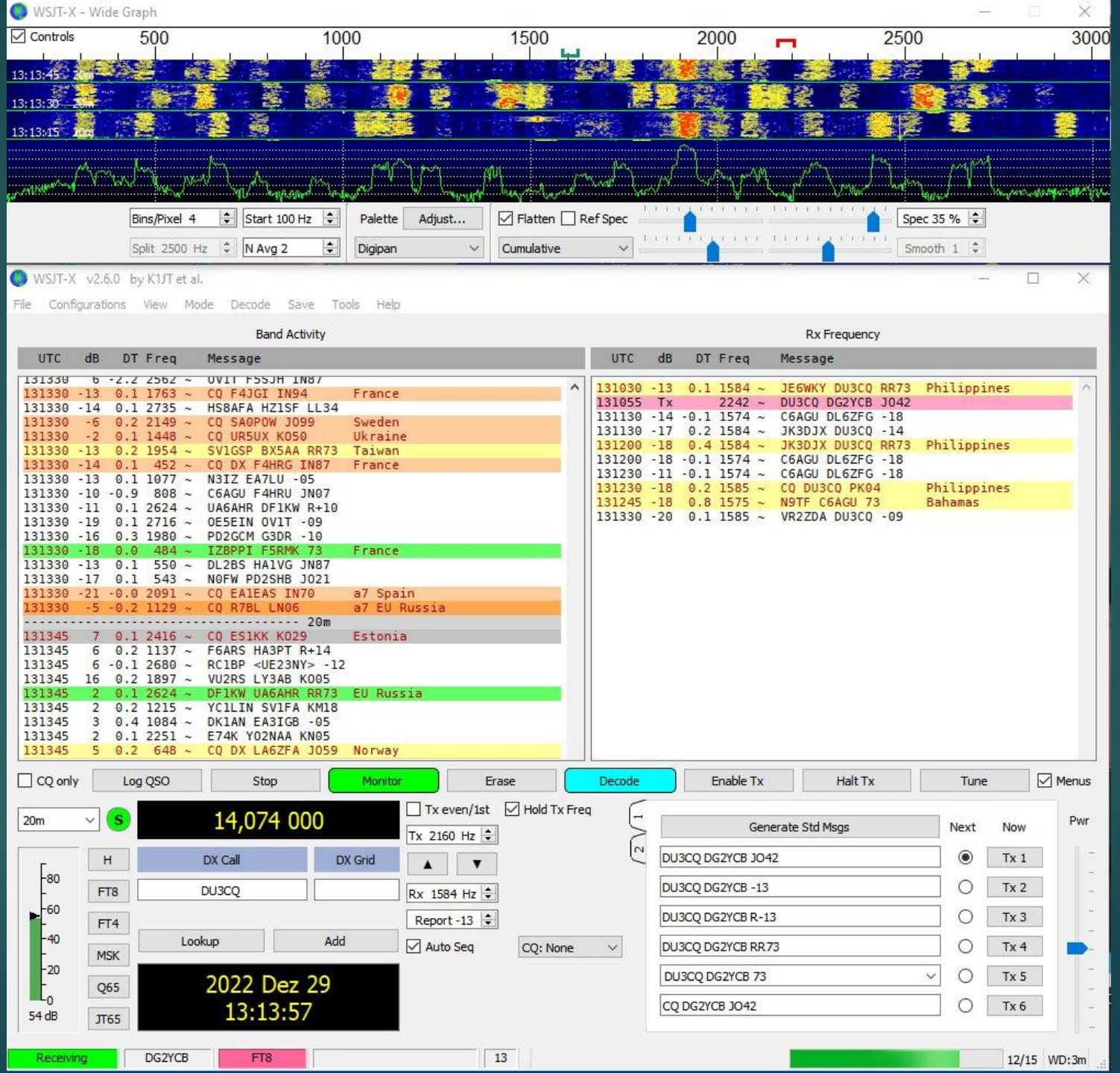
Double click on either the “WSJT-X” call you want to work or “JT-Alert” Callsign box

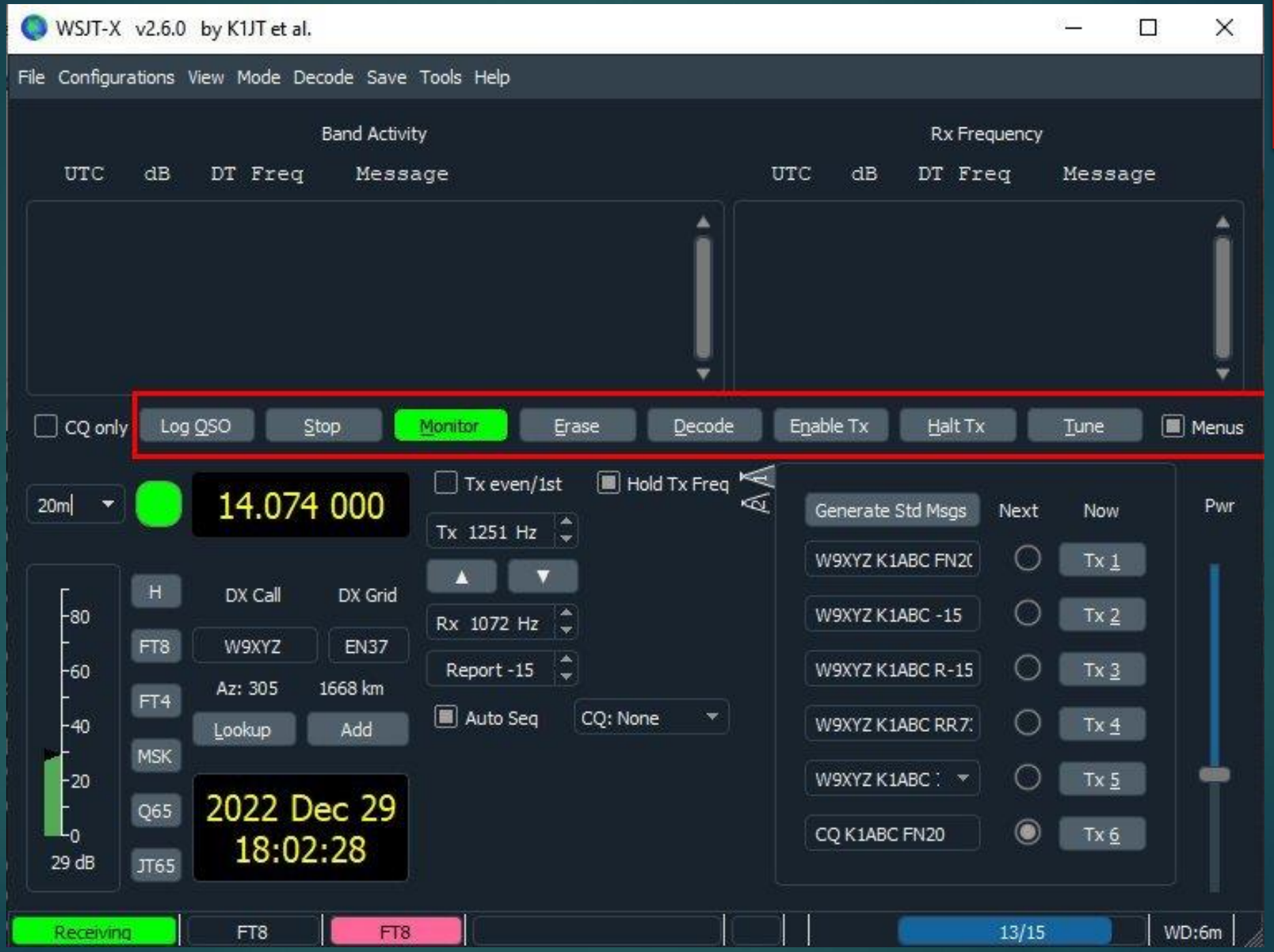
Calling CQ

Calling CQ is a bit more involved initially. Find an unused frequency. Move both the *Red and Green* frequency marker to the unused space on the waterfall. Move the Red marker by holding down the Shift key while clicking. Move the Green Marker by clicking on the same open space. Next, click the TX6 radio button. Now merely select Enable TX on the menu bar located above the “Generate Standard messages” line on the main screen.

Fox and Hound Mode Operation -Typically DXPeditions

- Select the “H” on the lower half of the WSJT-X screen to select “HOUND” mode
- Set Transmit (Red goal post) to any frequency that is clear but must be ABOVE 1000 on the Waterfall.
- Enter the DX’s call into the DX Call box
- Select “Generate Standard Messages”
- Click on Enable Transmit


WSJT-X - Wide Graph
Controls
500
1000
1500
2000
2500
3000
13:13:45 20m
13:13:30 20m
13:13:15 20m
Bins/Pixel 4
Start 100 Hz
Palette
Adjust...
Flatten
Ref Spec
Spec 35 %
Split 2500 Hz
N Avg 2
Digipan
Cumulative
Smooth 1
WSJT-X v2.6.0 by K1JT et al.
File Configurations View Mode Decode Save Tools Help
Band Activity
Rx Frequency
UTC dB DT Freq Message
131330 -13 0.1 1763 ~ CQ F4JGI IN94 France
131330 -14 0.1 2735 ~ HS8AFA HZ1SF LL34
131330 -6 0.2 2149 ~ CQ SA0POW JO99 Sweden
131330 -2 0.1 1448 ~ CQ UR5UX KO50 Ukraine
131330 -13 0.2 1954 ~ SV1GSP BX5AA RR73 Taiwan
131330 -14 0.1 452 ~ CQ DX F4HRG IN87 France
131330 -13 0.1 1077 ~ N3IZ EA7LU -05
131330 -10 -0.9 808 ~ C6AGU F4HRU JN07
131330 -11 0.1 2624 ~ UA6AHR DF1KW R+10
131330 -19 0.1 2716 ~ OE5EIN OV1T -09
131330 -16 0.3 1980 ~ PD2GCM G3DR -10
131330 -18 0.0 484 ~ IZ8PPI F5RMK 73 France
131330 -13 0.1 550 ~ DL2BS HA1VG JN87
131330 -17 0.1 543 ~ N0FW PD2SHB JO21
131330 -21 -0.0 2091 ~ CQ EA1EAS IN70 a7 Spain
131330 -5 -0.2 1129 ~ CQ R7BL LN06 a7 EU Russia
20m
131345 7 0.1 2416 ~ CQ ES1KK KO29 Estonia
131345 6 0.2 1137 ~ F6ARS HA3PT R+14
131345 6 -0.1 2680 ~ RC1BP <UE23NY> -12
131345 16 0.2 1897 ~ VU2RS LY3AB KO05
131345 2 0.1 2624 ~ DF1KW UA6AHR RR73 EU Russia
131345 2 0.2 1215 ~ YC1LIN SV1FA KM18
131345 3 0.4 1084 ~ DK1AN EA3IGB -05
131345 2 0.1 2251 ~ E74K YO2NAA KN05
131345 5 0.2 648 ~ CQ DX LA6ZFA JO59 Norway
131030 -13 0.1 1584 ~ JE6WKY DU3CQ RR73 Philippines
131055 Tx 2242 ~ DU3CQ DG2YCB JO42
131130 -14 -0.1 1574 ~ C6AGU DL6ZFG -18
131130 -17 0.2 1584 ~ JK3DJX DU3CQ -14
131200 -18 0.4 1584 ~ JK3DJX DU3CQ RR73 Philippines
131200 -18 -0.1 1574 ~ C6AGU DL6ZFG -18
131230 -11 -0.1 1574 ~ C6AGU DL6ZFG -18
131230 -18 0.2 1585 ~ CQ DU3CQ PK04 Philippines
131245 -18 0.8 1575 ~ N9TF C6AGU 73 Bahamas
131330 -20 0.1 1585 ~ VR2ZDA DU3CQ -09
CQ only
Log QSO
Stop
Monitor
Erase
Decode
Enable Tx
Halt Tx
Tune
Menus
20m
14,074 000
Tx even/1st
Hold Tx Freq
Tx 2160 Hz
H
DX Call
DX Grid
FT8
DU3CQ
FT4
Rx 1584 Hz
Report -13
MSK
Lookup
Add
Auto Seq
CQ: None
Q65
2022 Dez 29
13:13:57
JT65
54 dB
Generate Std Msgs
Next
Now
Pwr
DU3CQ DG2YCB JO42
DU3CQ DG2YCB -13
DU3CQ DG2YCB R-13
DU3CQ DG2YCB RR73
DU3CQ DG2YCB 73
CQ DG2YCB JO42
Tx 1
Tx 2
Tx 3
Tx 4
Tx 5
Tx 6
Receiving
DG2YCB
FT8
13
12/15
WD:3m

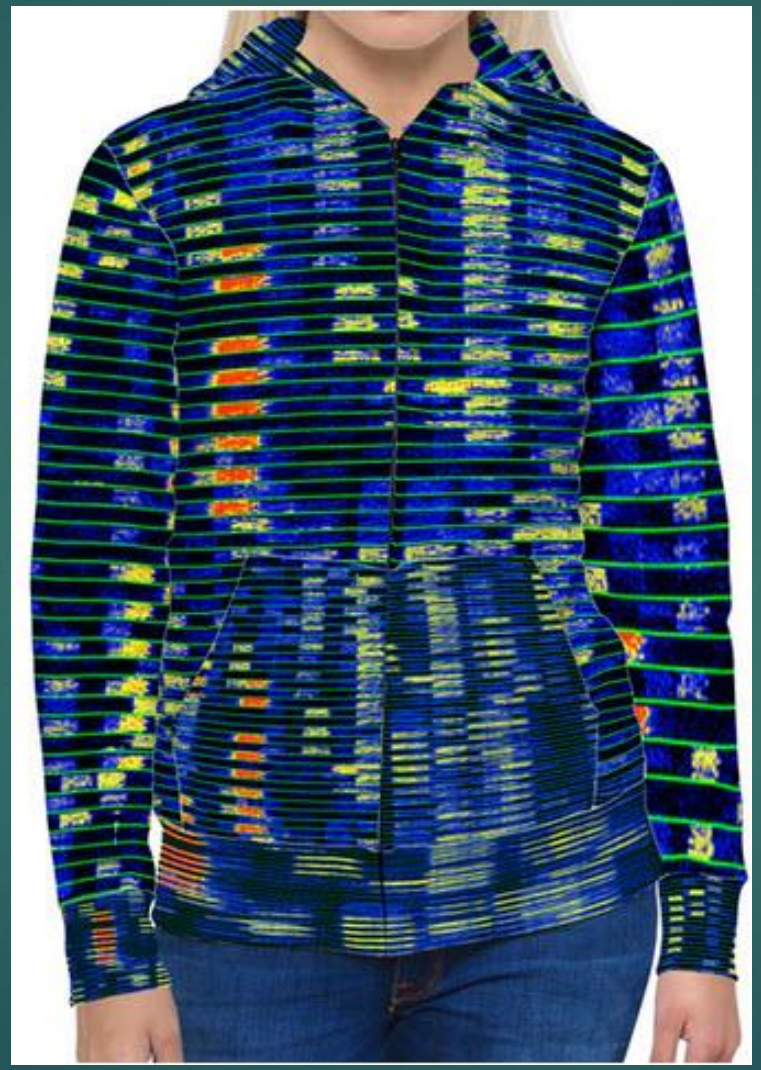

WSJT-X v2.6.0 by K1JT et al.
File Configurations View Mode Decode Save Tools Help
Band Activity
UTC dB DT Freq Message
Rx Frequency
UTC dB DT Freq Message
CQ only
Log QSO
Stop
Monitor
Erase
Decode
Enable Tx
Halt Tx
Tune
Menus
20m
14.074 000
Tx even/1st
Hold Tx Freq
Tx 1251 Hz
Rx 1072 Hz
Report -15
Auto Seq
CQ: None
Generate Std Msgs
Next
Now
W9XYZ K1ABC FN20
W9XYZ K1ABC -15
W9XYZ K1ABC R-15
W9XYZ K1ABC RR7
W9XYZ K1ABC
CQ K1ABC FN20
Tx 1
Tx 2
Tx 3
Tx 4
Tx 5
Tx 6
Pwr
H
FT8
FT4
MSK
Q65
JT65
DX Call
DX Grid
W9XYZ
EN37
Az: 305
1668 km
Lookup
Add
2022 Dec 29
18:02:28
80
60
40
20
0
29 dB
Receiving
FT8
FT8
13/15
WD:6m

Summary

1. We've reviewed what kind of **radio** hardware you need to run the program
2. We've reviewed what **computer** hardware you need to run the program
3. We've reviewed what **ancillary programs** are useful when running the program.
4. We've reviewed the **initial settings** on WSJT-X as to how to set up the program – but read the manual - wsjtxmain-2.6.1.pdf (sourceforge.io)
5. We've reviewed the main WSJT-X screen and identified major sections
6. We've reviewed "How to call "CQ" or answer "CQ

Questions?

FT8 Waterfall Hoodie



https://hamtactical.com/collections/ft8