DCARC official ELMER

Thanks Joe N7JEH

An Introduction to FT-8 using WSJT-X

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

(Everything you always wanted to know but were afraid to ask!!!)

(No Radio specific setting)

Presented by Bill McGowan – KC1EO

What do we know about WSJT-X and FT8?

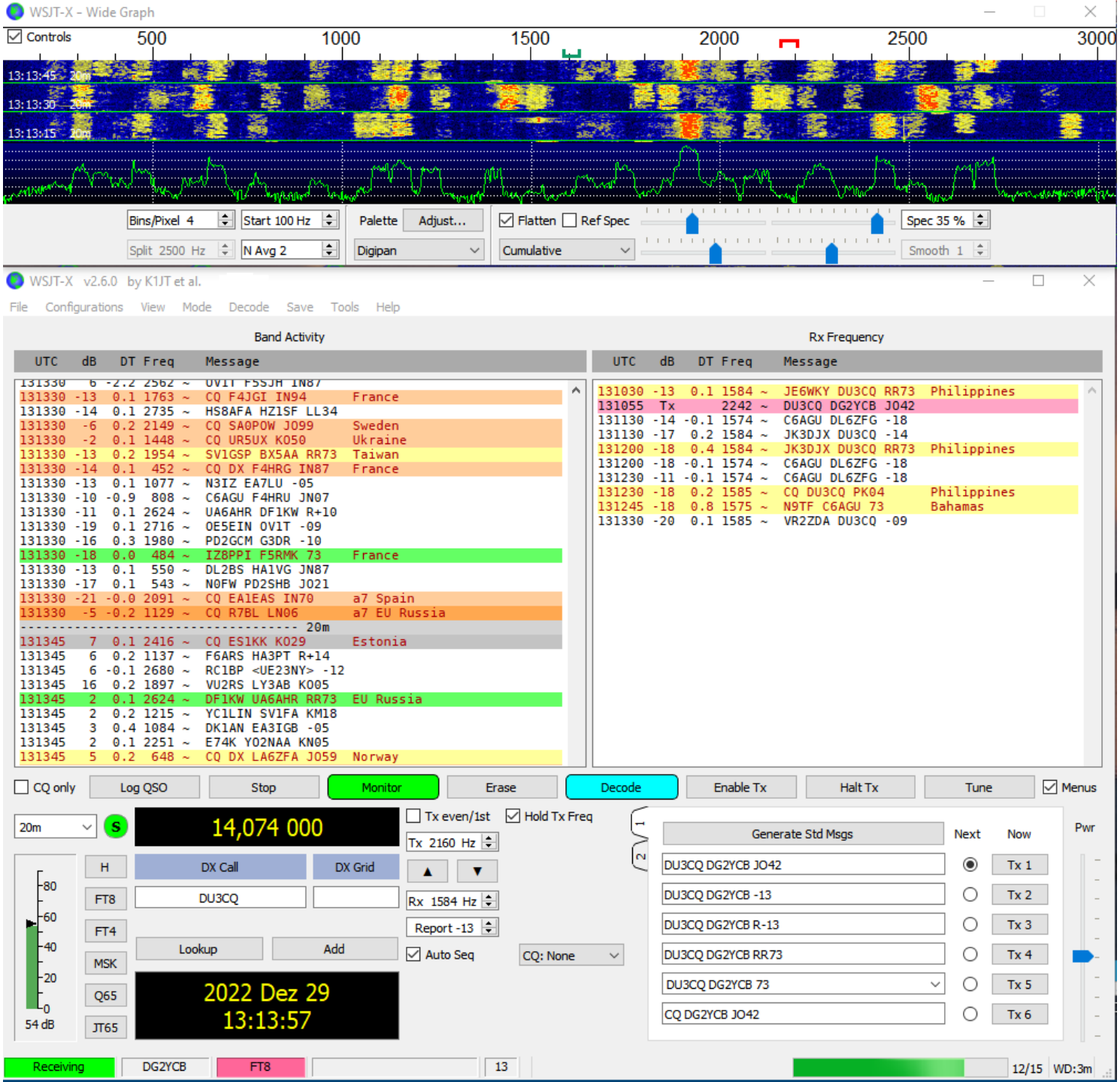
- WSJT-X was developed by Steven Franke, K9AN, and Joe Taylor K1JT in 2017and uses 8 tone FSK modulation
- Needs accurate timing +/- 1.0 seconds to UTC*
- Shows signal strength (-26db to +30db)
- Designed for **QSO's** not "Rag Chewing"
- Logs contacts in ADIF format (Amateur Data Interchange Format) within the program, and can share that information, as well as decode data information with other programs.
- Generates appropriate TX messages to complete QSO
- Exchanges Grid squares as well as signal reports*
- Multiband – standardized Frequencies on all supported bands
- Weak Signal mode – NOT low power mode
- Computer Aided Technology – (CAT) Compliant
- 10 different modes: **FT4, FT8**, Most Popular for everyday operation and contests.
- JT4, JT9, JT65, QRA64, ISCAT, MSK144, WSPR, and Echo
- Fox/Hound Mode for DXPeditions

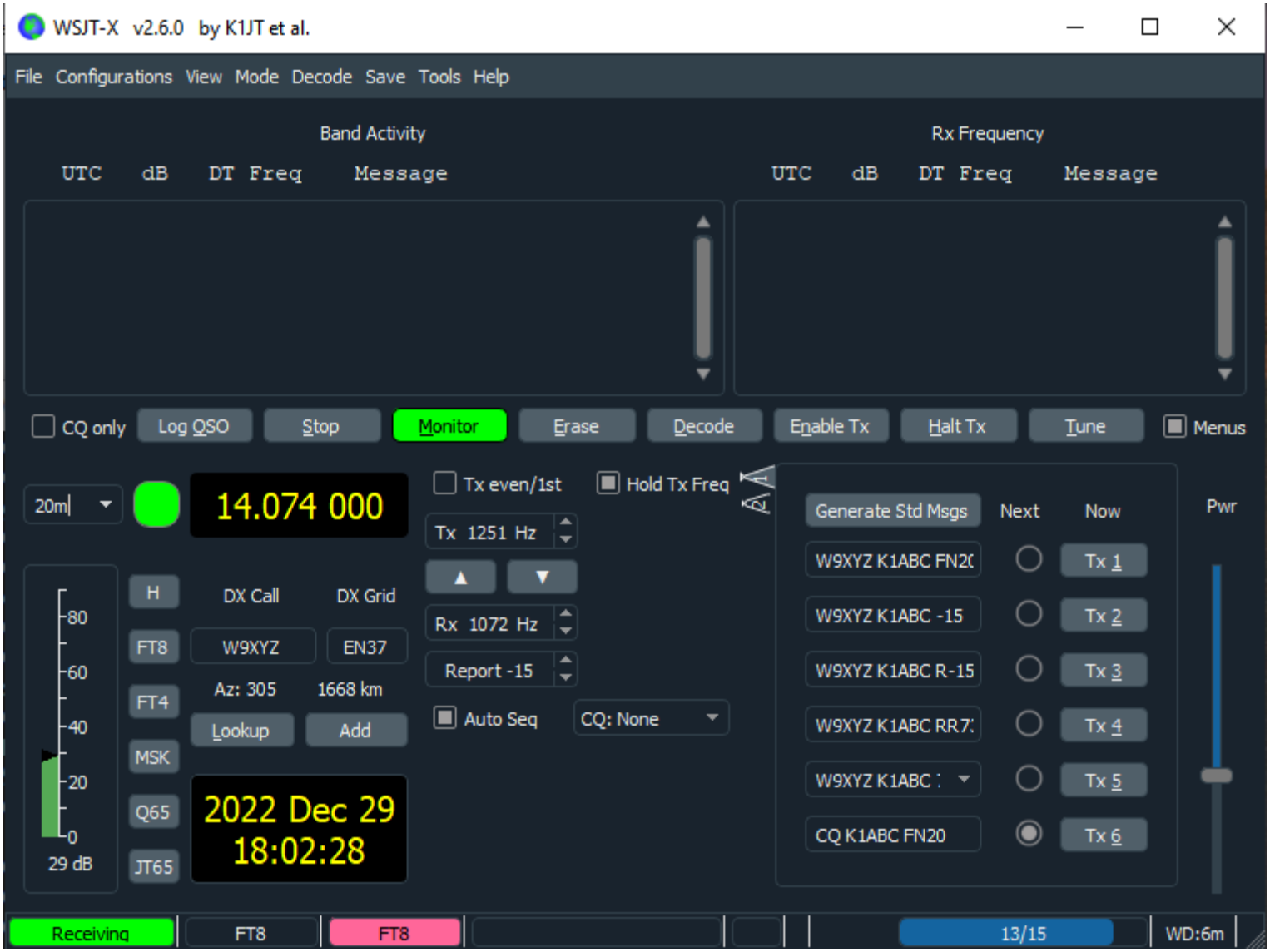
FT-8 System Requirements

- 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 equivalent USB device for T/R switching, or **CAT** control, or VOX, as required for **your** radio-to-computer connections
- **Audio input and output** devices supported by the operating system and configured for sample rate 48000 Hz, 16 bits
- Audio or equivalent USB connections between transceiver and computer
- A means for synchronizing the computer clock to UTC within ±1 second or better*

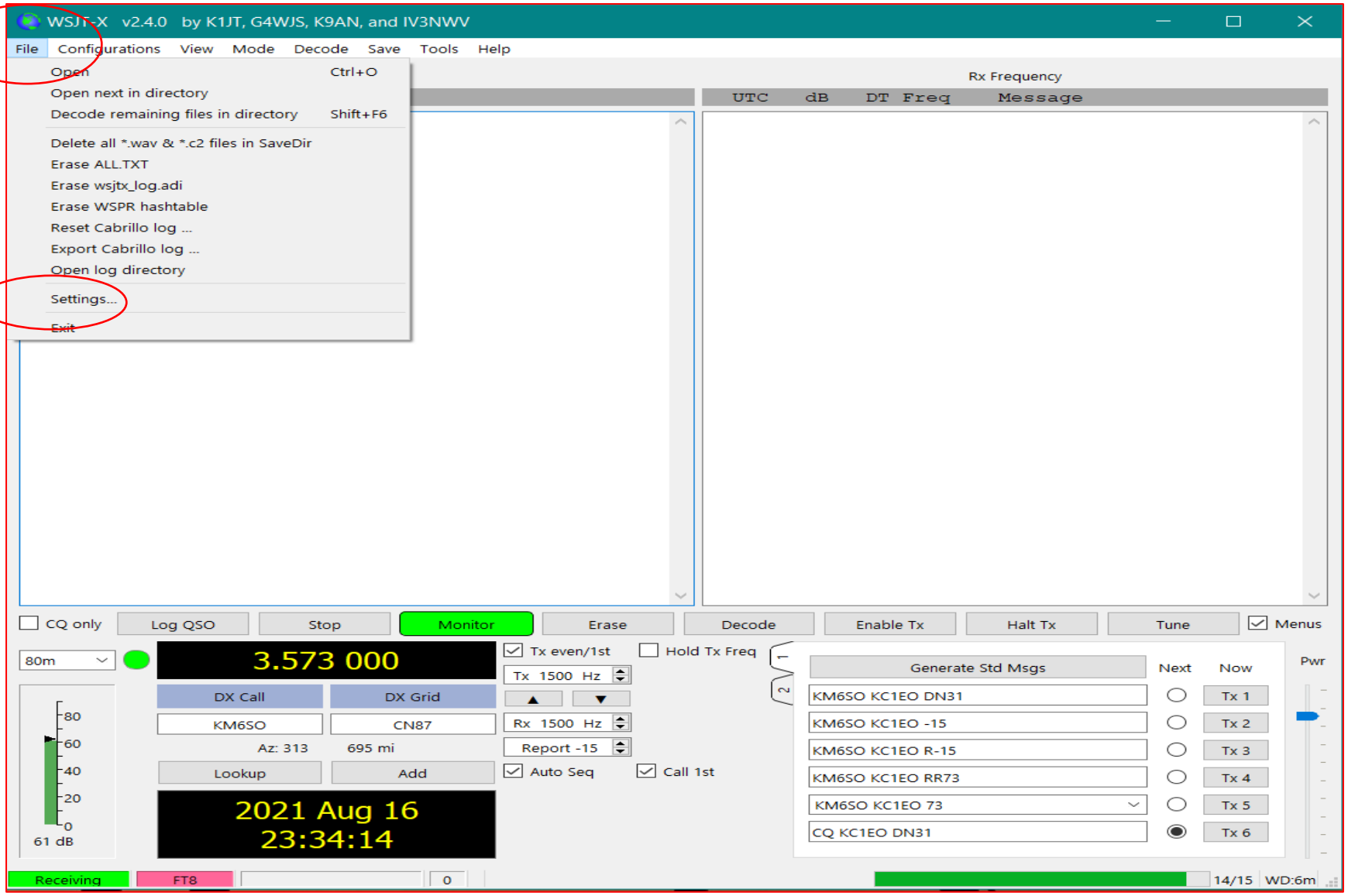
We need more than WSJT-X to get the most from FT8

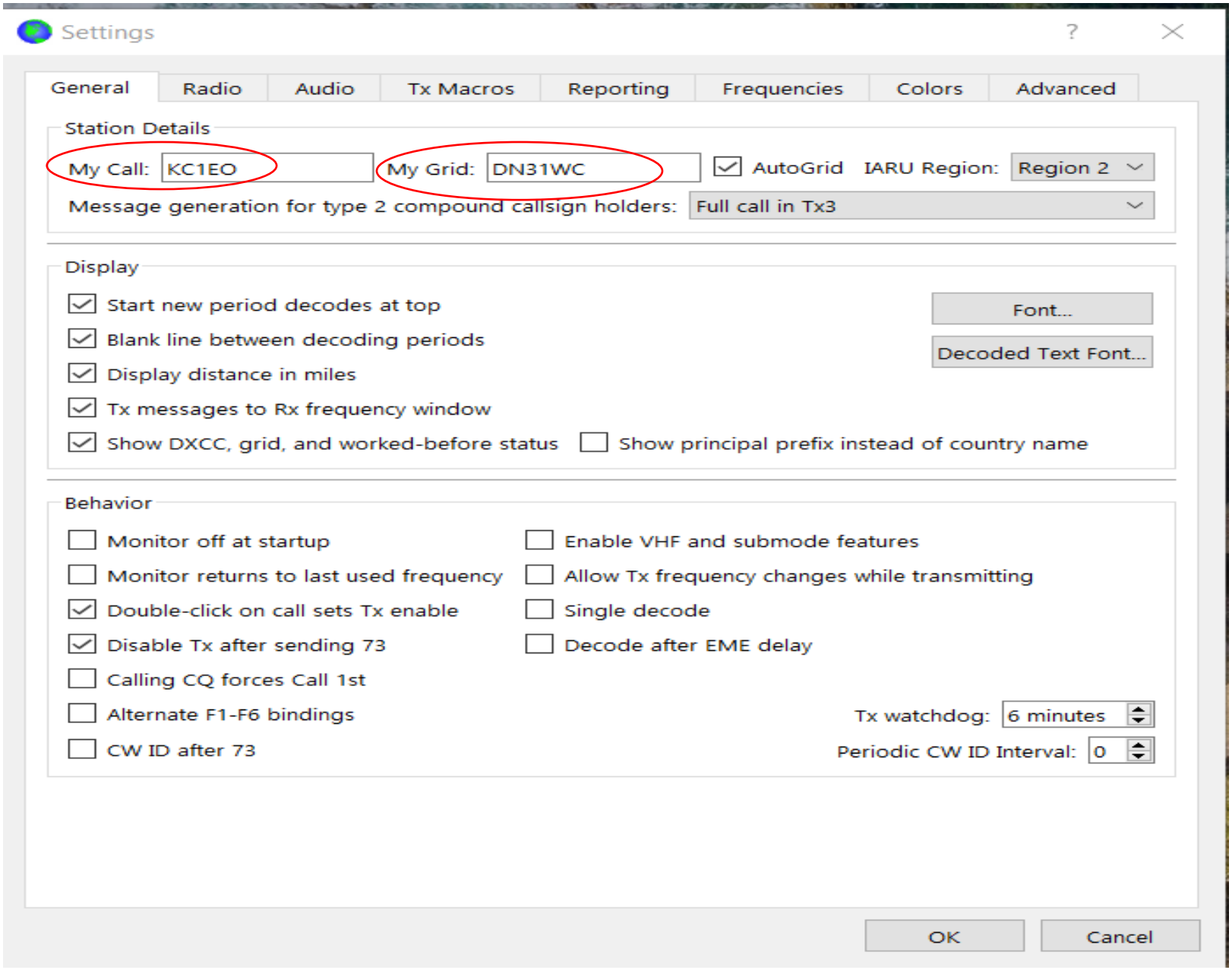
- WSJT-X –The main program (WSJT Home Page (sourceforge.io))
- Dimension 4 or another similar program – to keep your time synced (thinkman.com/dimension4)
- DXLabs Suite - DXKeeper – Log your contacts and MORE (Dxlabsuite.com) *(Refer to Joe's presentation of last month)*
- JT Alert – (Hamapps.com) ((Almost required))
- GridTracker – (Gridtracker.org)
- ----------
- PSK Reporter – (https://pskreporter.info/pskmap.html)
- Groups.io – (https://groups.io) Email group for FT8, Radios, etc.
- ARRL - LoTW - VERY helpful (arrl.org/quick-start)

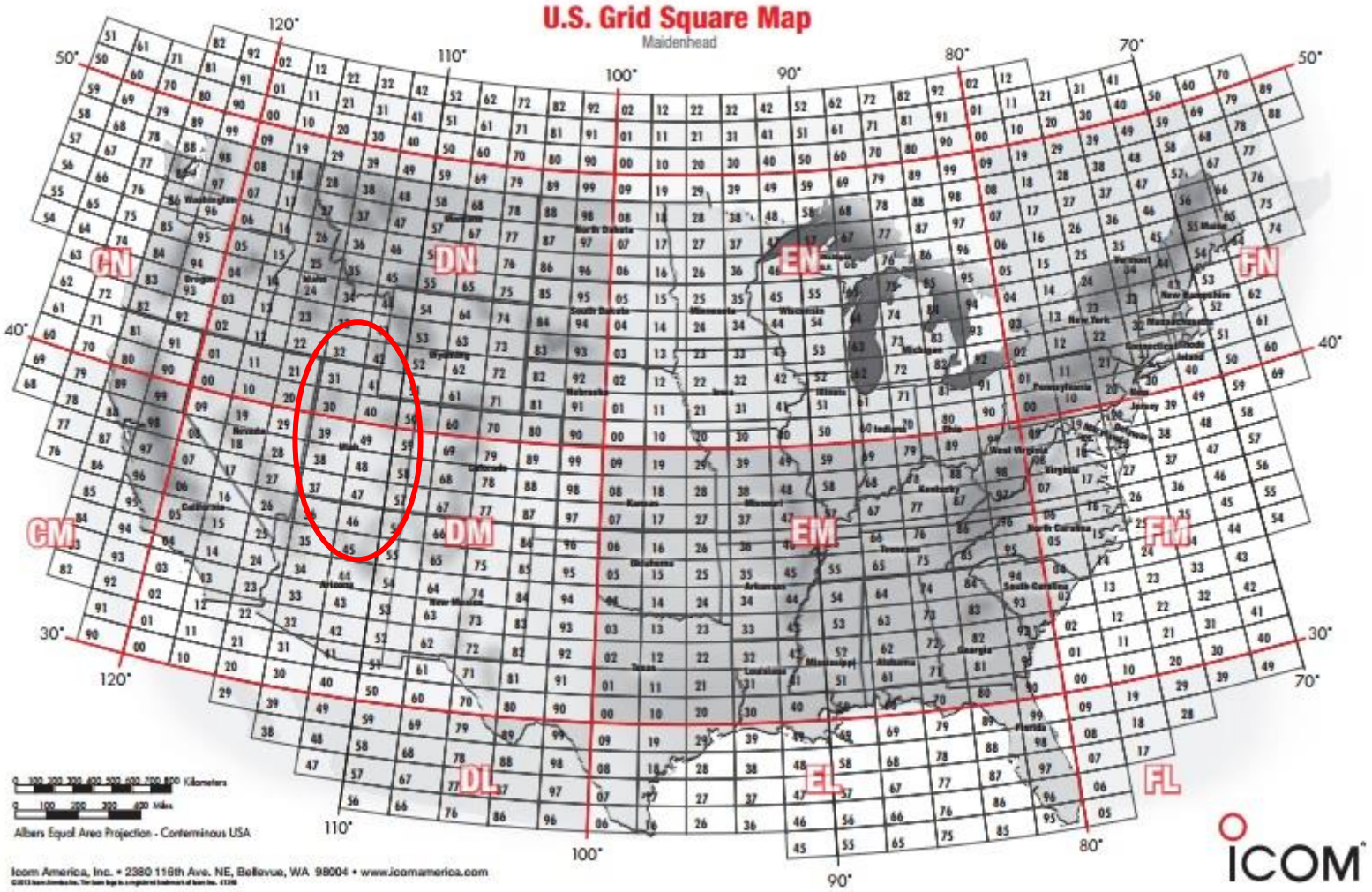

WSJT-X - Wide Graph
Controls
500
1000
1500
2000
2500
3000
13:13:45 20m
13:13:30 20m
13:13:15 20m
Bins/Pixel 4
Start 100 Hz
Palette
Adjust...
Flatten
Ref Spec
Spec 35 %
Split 2500 Hz
N Avg 2
Digipan
Cumulative
Smooth 1
WSJT-X v2.6.0 by K1JT et al.
File Configurations View Mode Decode Save Tools Help
Band Activity
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
Rx Frequency
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
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

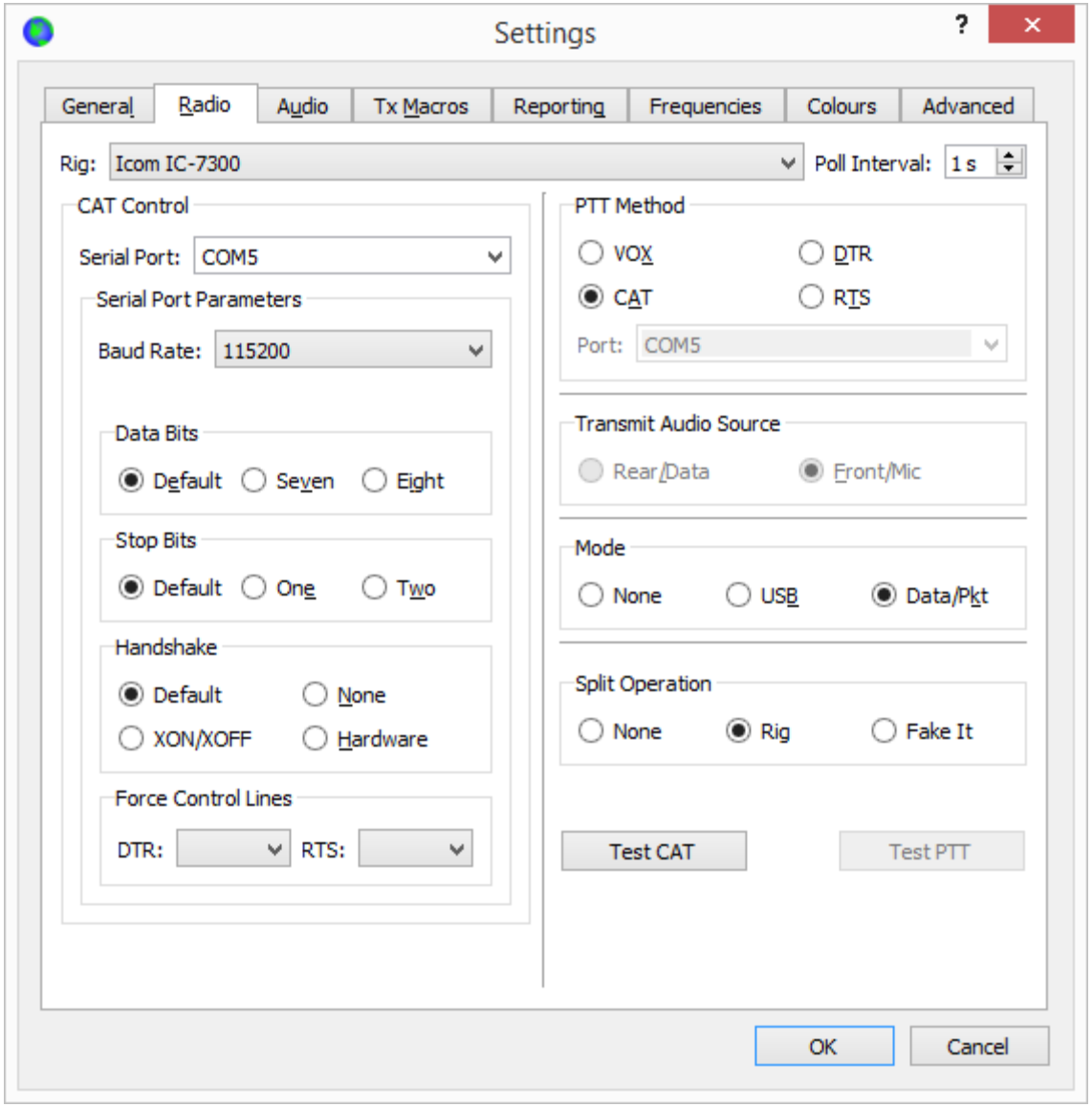

WSJT-X v2.6.0 by K1JT et al.
File Configurations View Mode Decode Save Tools Help
Band Activity
UTC dB DT Freq Message
Rx Frequency
UTC dB DT Freq Message
CQ only
Log QSO
Stop
Monitor
Erase
Decode
Enable Tx
Halt Tx
Tune
Menus
20m
14.074 000
Tx even/1st
Hold Tx Freq
Tx 1251 Hz
Rx 1072 Hz
Report -15
Auto 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

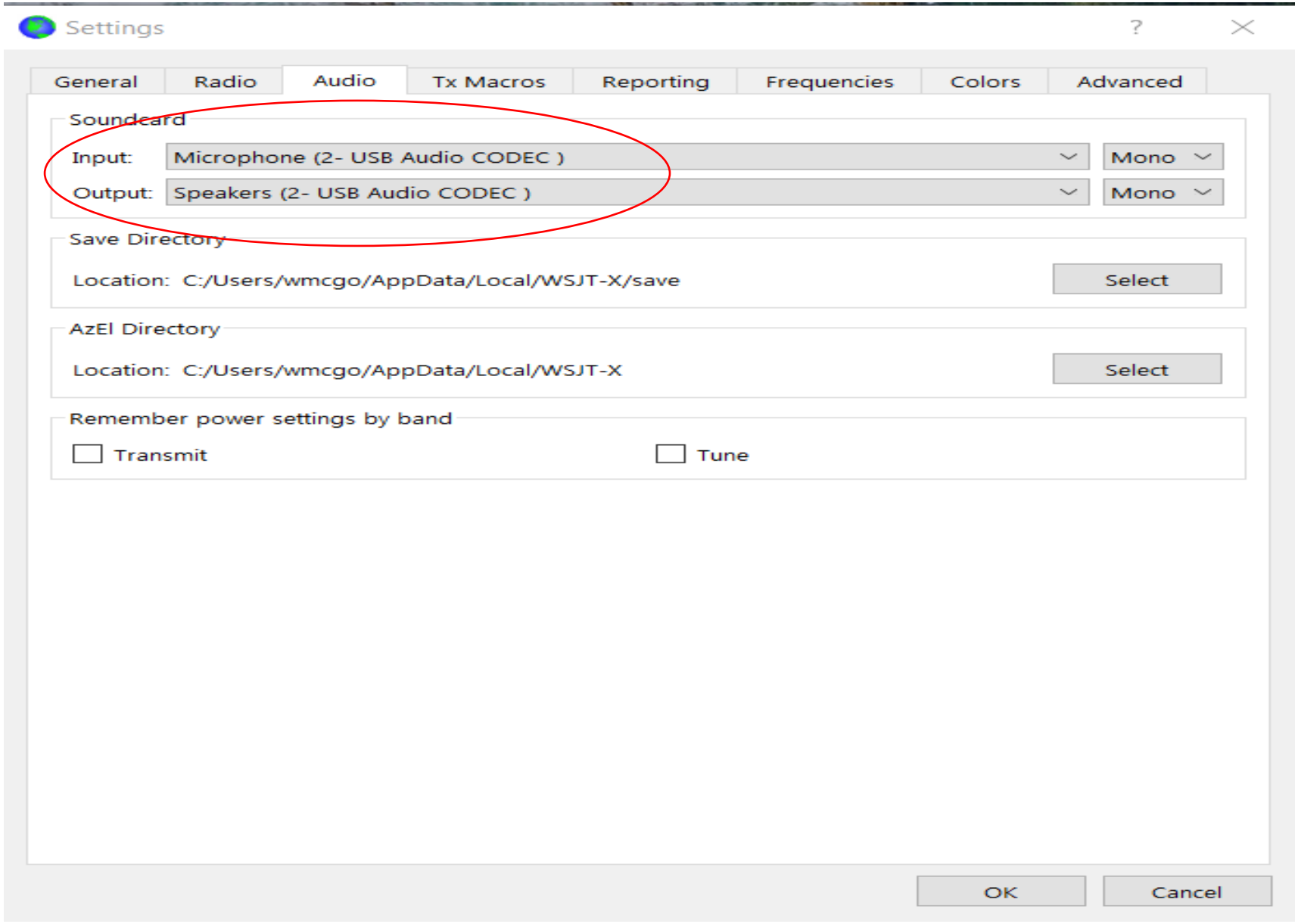
Settings changes take place on the following tabs.

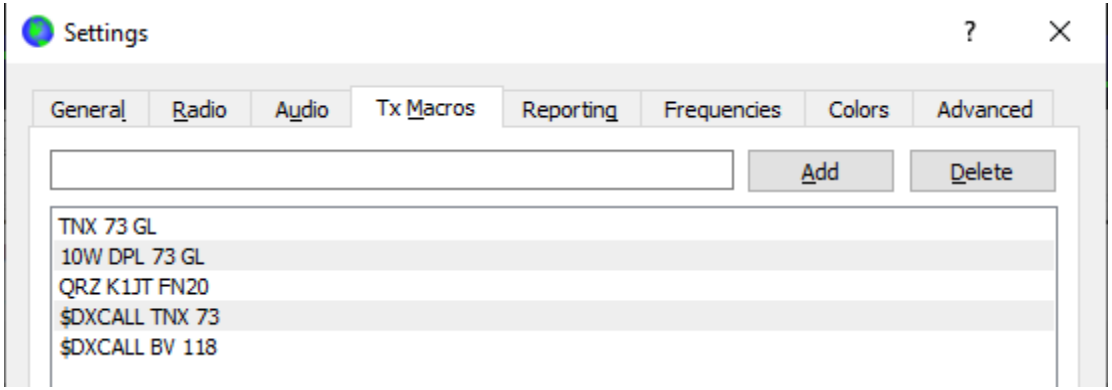


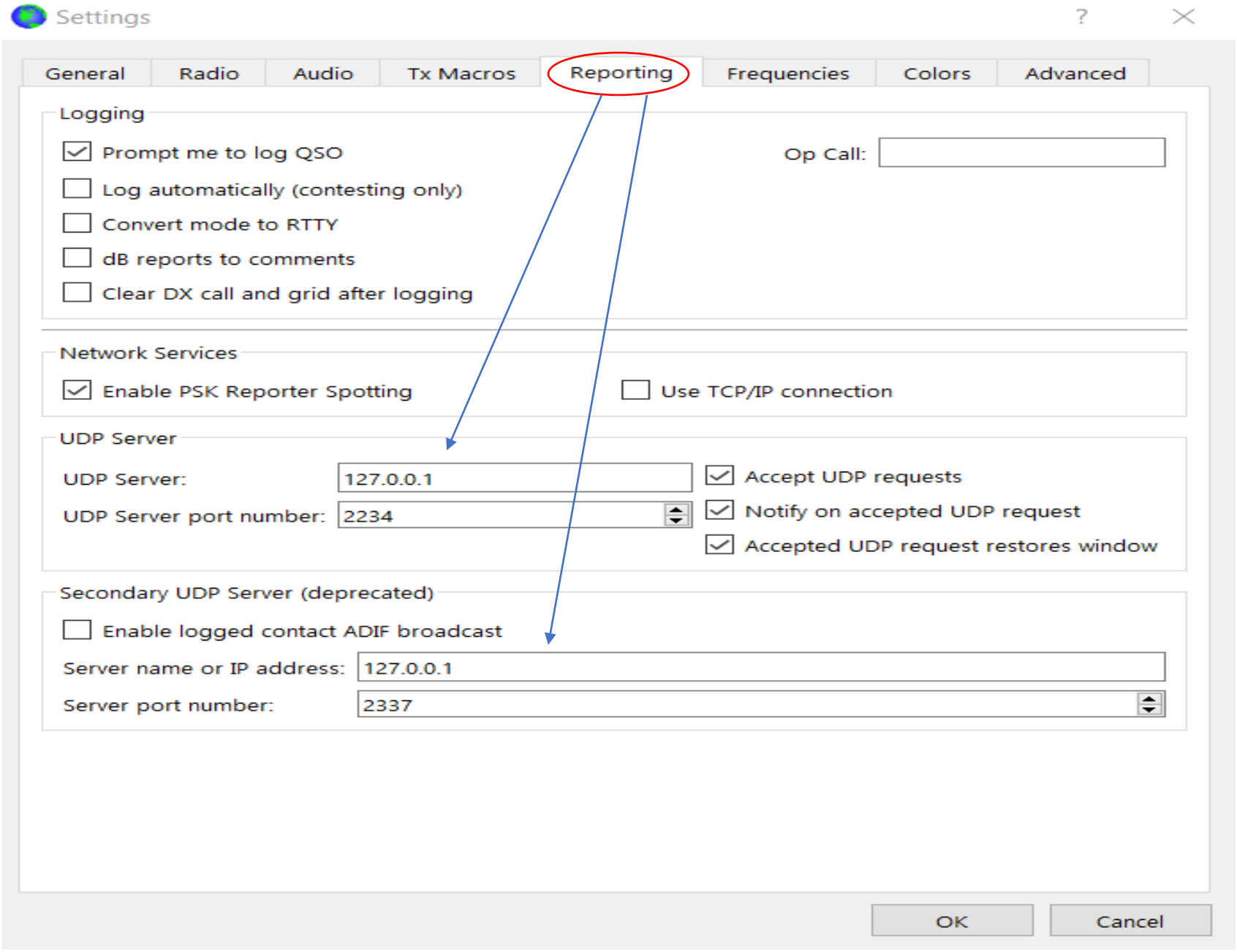

Settings
General
Radio
Audio
Tx Macros
Reporting
Frequencies
Colors
Advanced
Station Details
My Call: KC1EO
My Grid: DN31WC
AutoGrid
IARU Region: Region 2
Message generation for type 2 compound callsign holders: Full call in Tx3
Display
Start new period decodes at top
Blank line between decoding periods
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

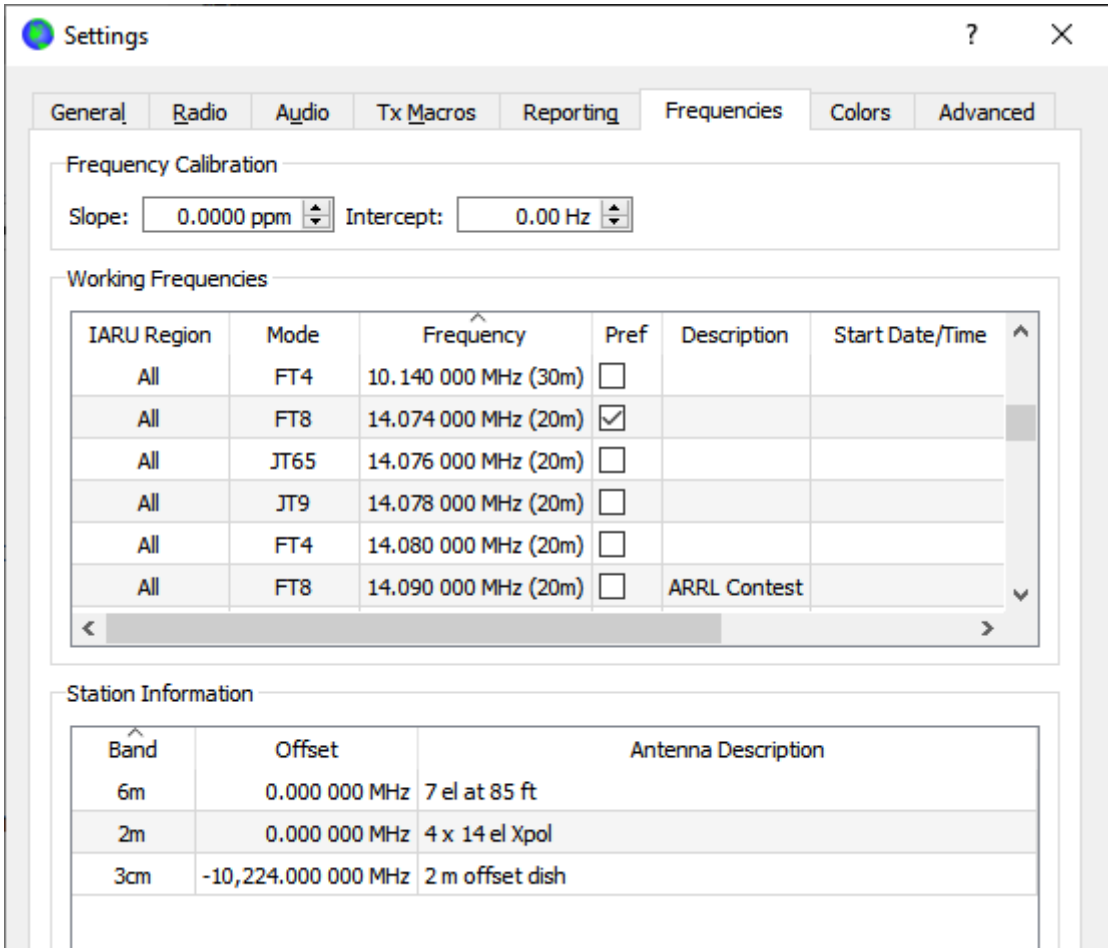

U.S. Grid Square Map
Maidenhead
120°
110°
100°
90°
80°
70°
50°
40°
30°
CN
DN
EN
FN
CM
DM
EM
FM
DL
EL
FL
Albers Equal Area Projection - Conterminous USA
Icom America, Inc. • 2380 116th Ave. NE, Bellevue, WA 98004 • www.icomamerica.com
ICOM

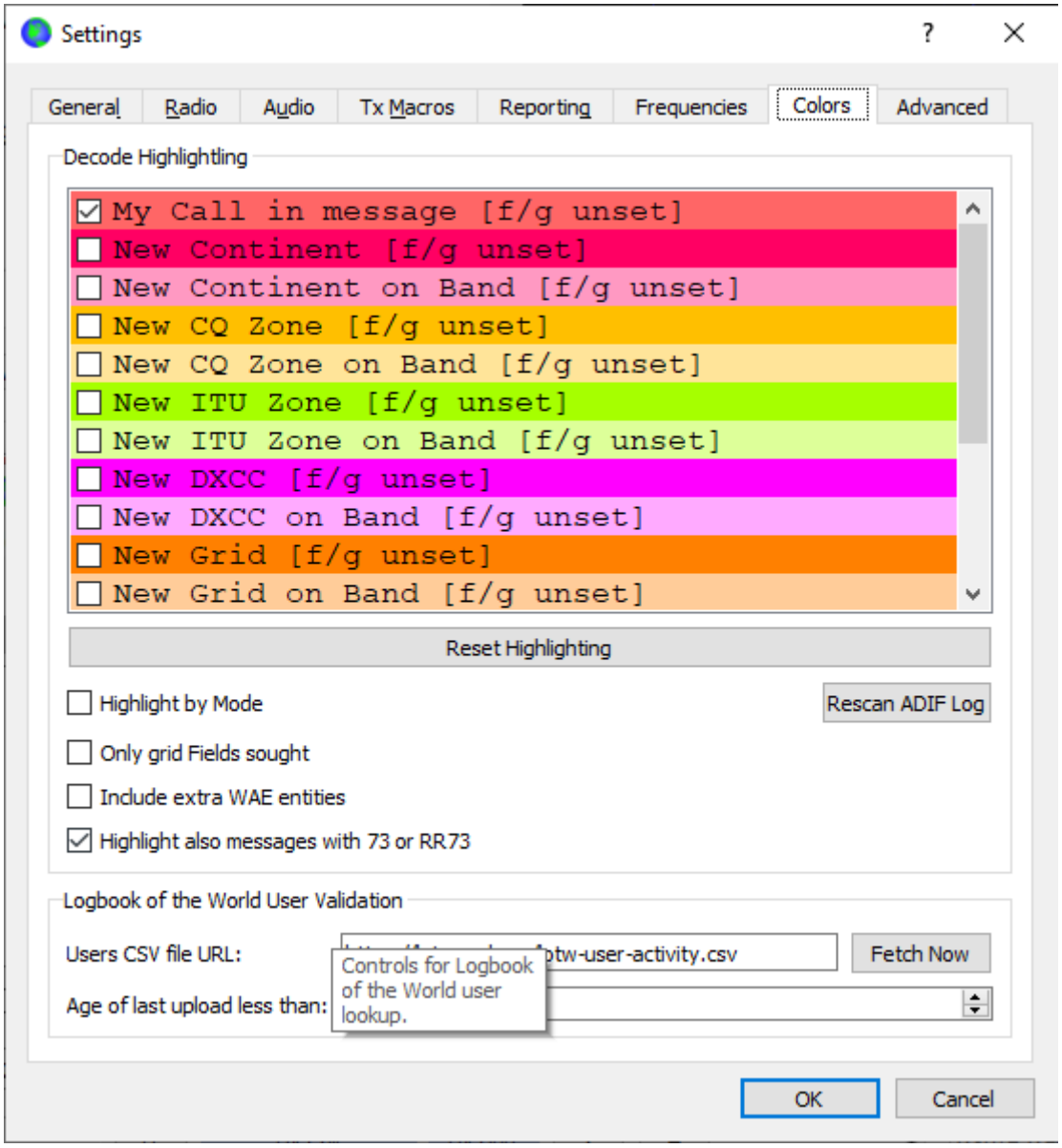

Settings
General
Radio
Audio
Tx Macros
Reporting
Frequencies
Colours
Advanced
Rig: Icom IC-7300
Poll Interval: 1 s
CAT Control
Serial Port: COM5
Serial Port Parameters
Baud Rate: 115200
Data Bits
Default Seven Eight
Stop Bits
Default One Two
Handshake
Default None
XON/XOFF Hardware
Force Control Lines
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

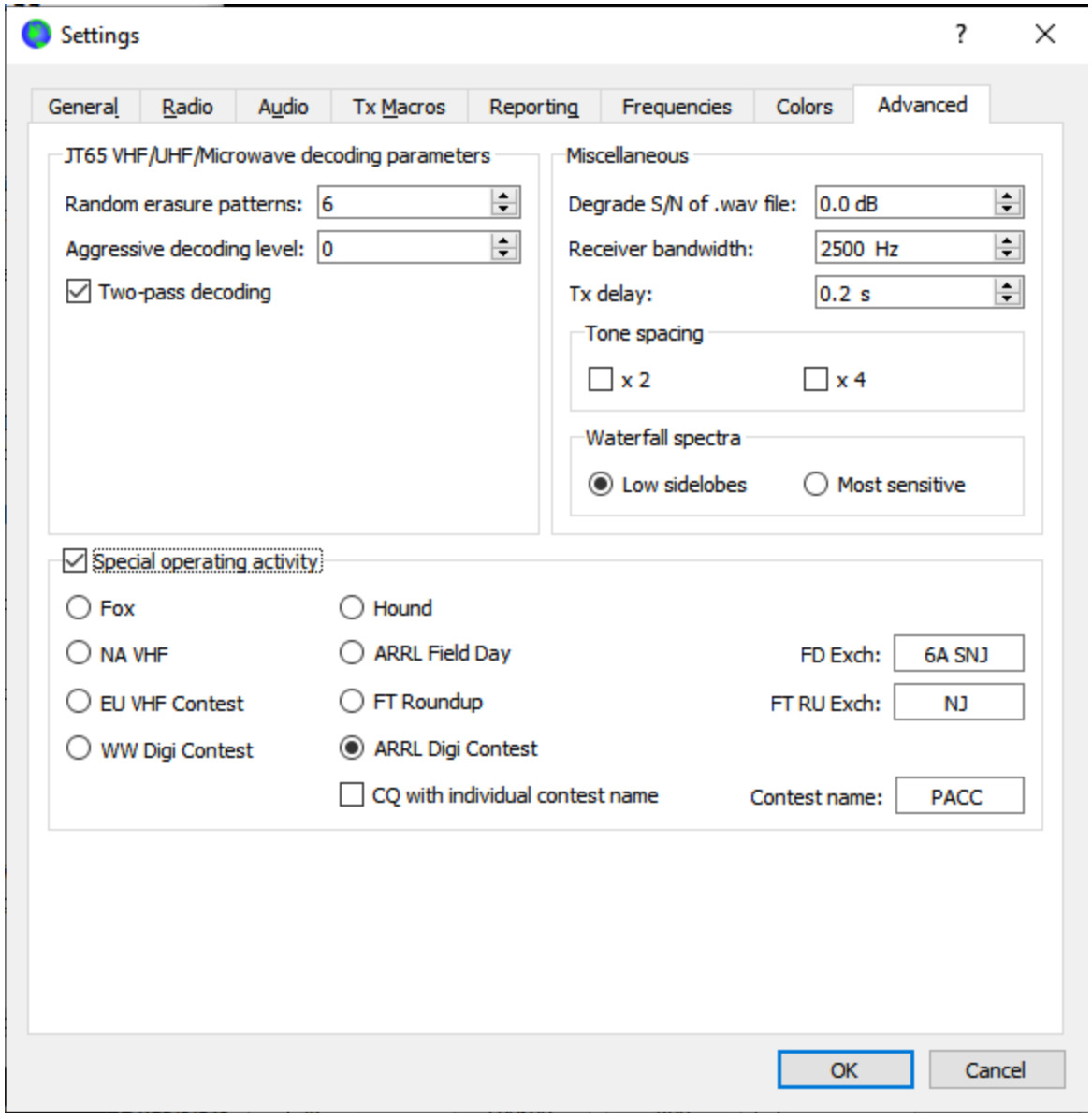

Settings
General
Radio
Audio
Tx Macros
Reporting
Frequencies
Colors
Advanced
Soundcard
Input:
Microphone (2- USB Audio CODEC)
Mono
Output:
Speakers (2- USB Audio CODEC)
Mono
Save Directory
Location: C:/Users/wmcgo/AppData/Local/WSJT-X/save
Select
AzEl Directory
Location: C:/Users/wmcgo/AppData/Local/WSJT-X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

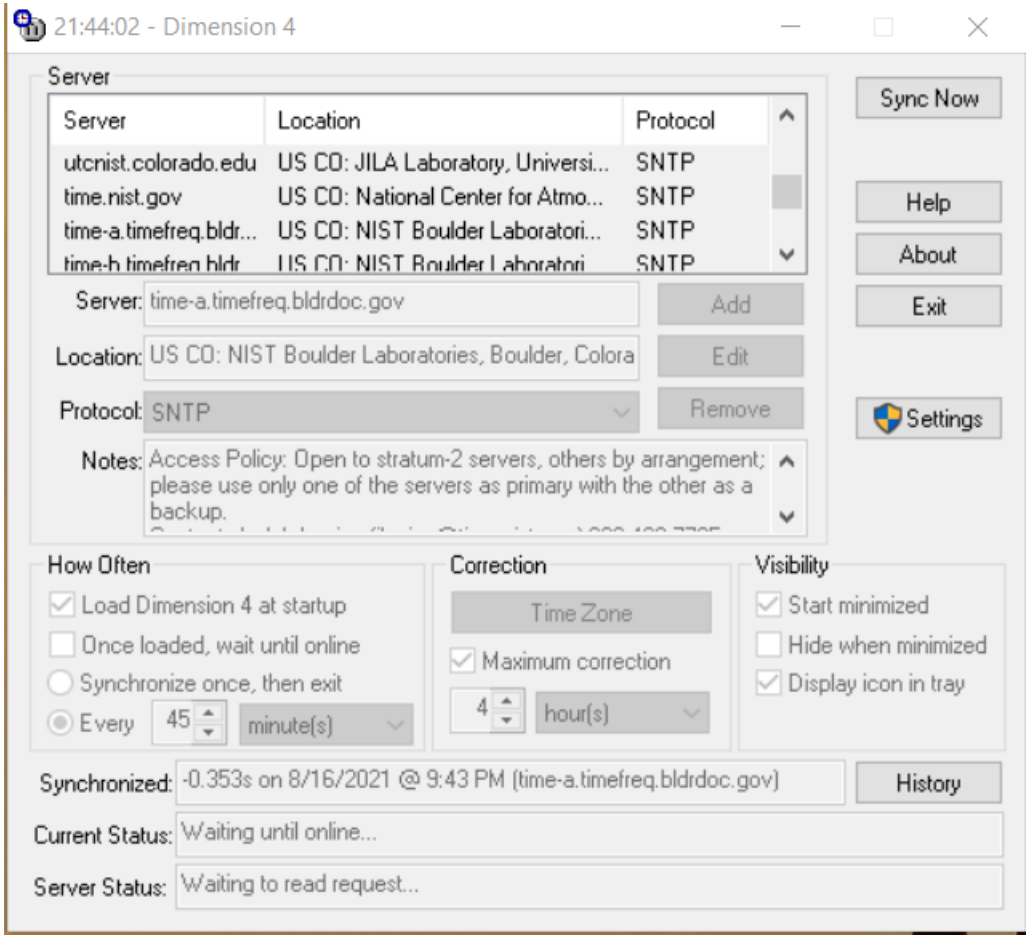

Settings
?
General
Radio
Audio
Tx Macros
Reporting
Frequencies
Colors
Advanced
Add
Delete
TNX 73 GL
10W DPL 73 GL
QRZ K1JT FN20
$DXCALL TNX 73
$DXCALL BV 118


Settings
General
Radio
Audio
Tx Macros
Reporting
Frequencies
Colors
Advanced
Logging
Prompt me to log QSO
Log automatically (contesting only)
Convert mode to RTTY
dB reports to comments
Clear DX call and grid after logging
Op Call:
Network Services
Enable PSK Reporter Spotting
Use TCP/IP connection
UDP Server
UDP Server:
127.0.0.1
UDP Server port number:
2234
Accept UDP requests
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

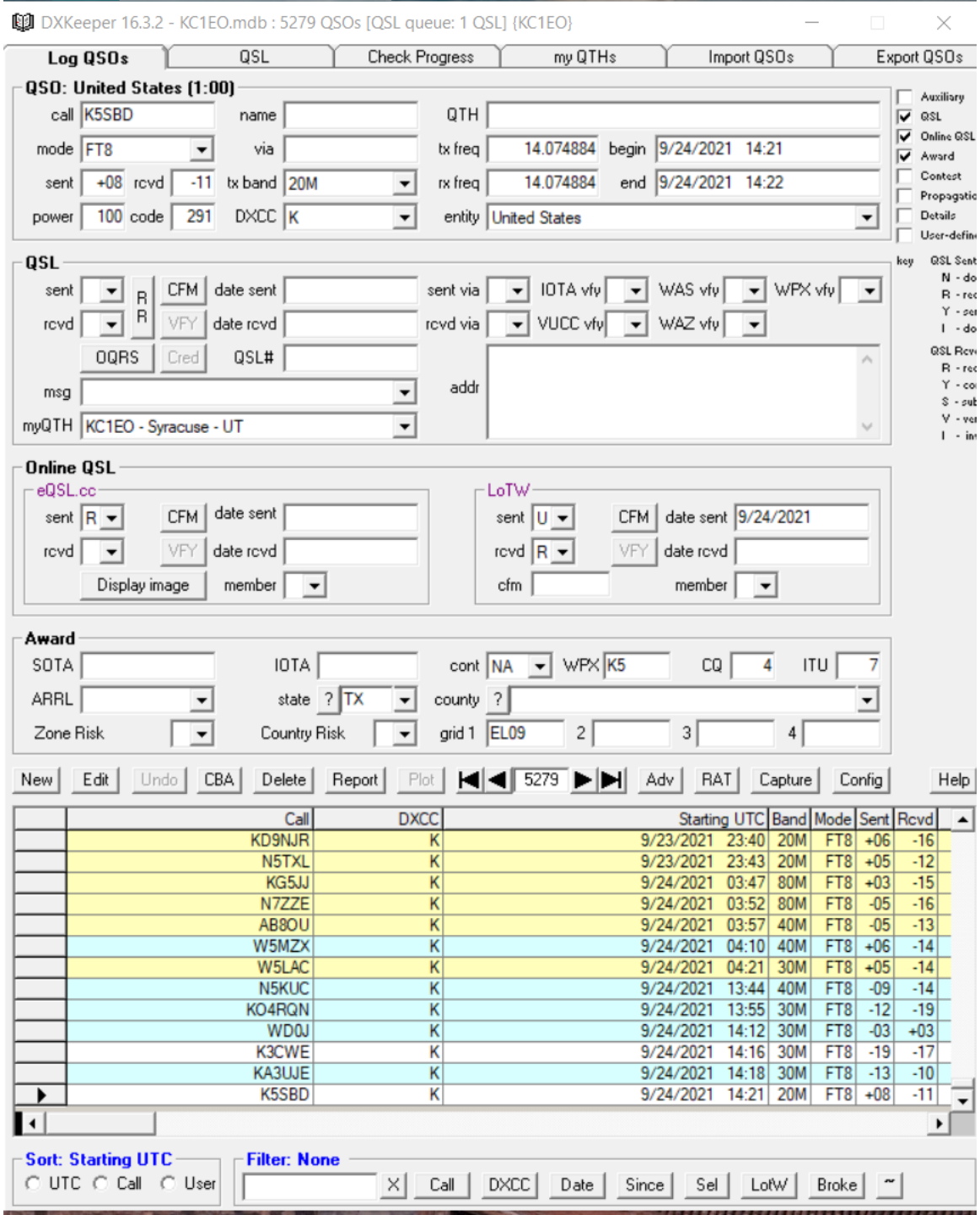

Settings
General
Radio
Audio
Tx Macros
Reporting
Frequencies
Colors
Advanced
Frequency Calibration
Slope: 0.0000 ppm
Intercept: 0.00 Hz
Working Frequencies
IARU Region
Mode
Frequency
Pref
Description
Start Date/Time
All FT4 10.140 000 MHz (30m)
All FT8 14.074 000 MHz (20m)
All JT65 14.076 000 MHz (20m)
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

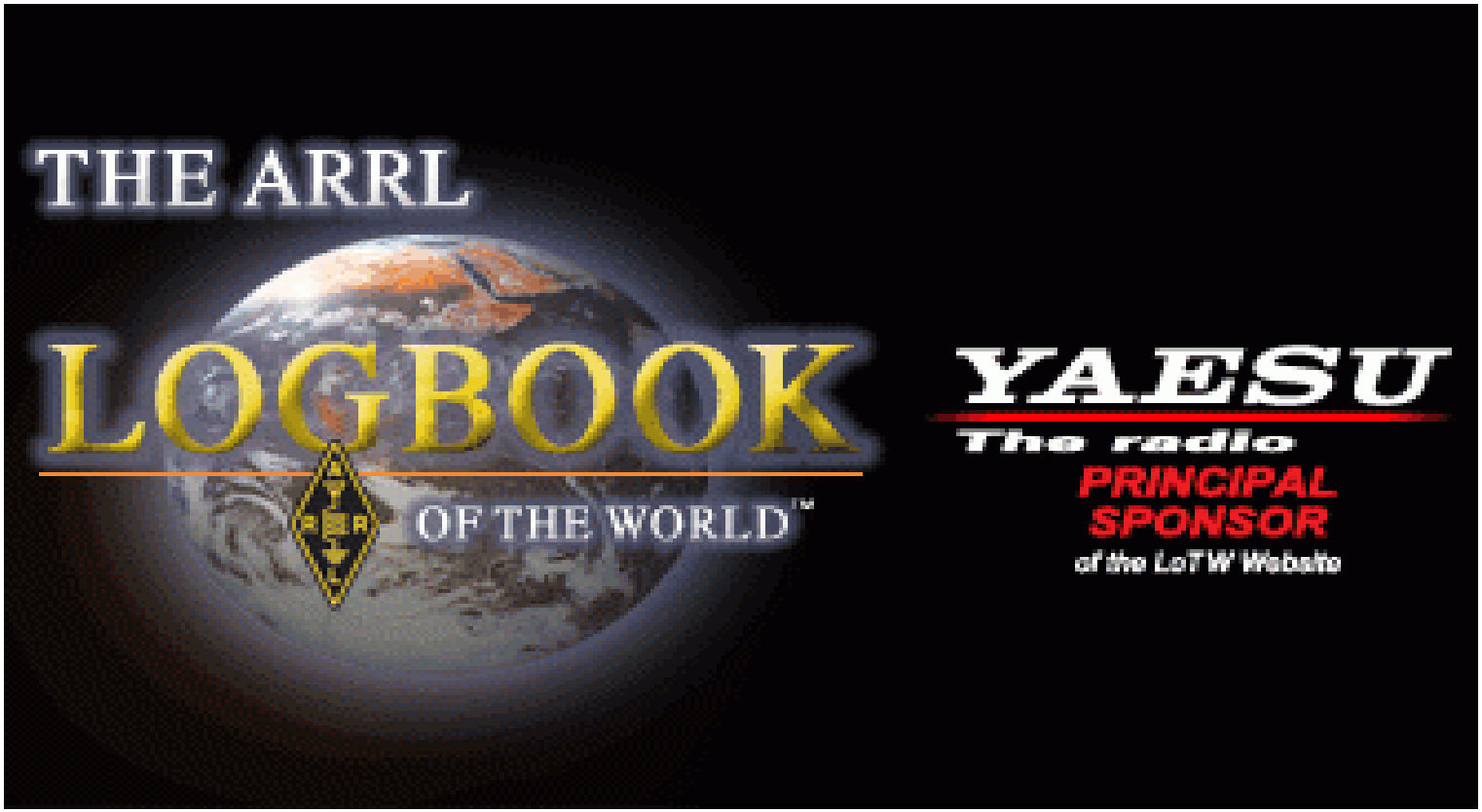

Settings
General
Radio
Audio
Tx Macros
Reporting
Frequencies
Colors
Advanced
Decode Highlightling
My Call in message [f/g unset]
New Continent [f/g unset]
New Continent on Band [f/g unset]
New CQ Zone [f/g unset]
New CQ Zone on Band [f/g unset]
New ITU Zone [f/g unset]
New ITU Zone on Band [f/g unset]
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
NA VHF
EU VHF Contest
WW Digi Contest
Hound
ARRL Field Day
FT Roundup
ARRL Digi Contest
CQ with individual contest name
FD Exch: 6A SNJ
FT RU Exch: NJ
Contest name: PACC
OK
Cancel


21:44:02 - Dimension 4
Server
Server
Location
Protocol
utcnist.colorado.edu
US CO: JILA Laboratory, Universi...
SNTP
time.nist.gov
US CO: National Center for Atmo...
SNTP
time-a.timefreq.bldr...
US CO: NIST Boulder Laboratori...
SNTP
Server: time-a.timefreq.bldrdoc.gov
Location: US CO: NIST Boulder Laboratories, Boulder, Colora
Protocol: SNTP
Notes: Access Policy: Open to stratum-2 servers, others by arrangement; please use only one of the servers as primary with the other as a backup.
Add
Edit
Remove
Sync Now
Help
About
Exit
Settings
How Often
Load Dimension 4 at startup
Once loaded, wait until online
Synchronize once, then exit
Every 45 minute(s)
Correction
Time Zone
Maximum correction
4 hour(s)
Visibility
Start minimized
Hide when minimized
Display icon in tray
Synchronized: -0.353s on 8/16/2021 @ 9:43 PM (time-a.timefreq.bldrdoc.gov)
History
Current Status: Waiting until online...
Server Status: Waiting to read request...

DXLab Launcher 2.1.4
Start
Minimize
Restore
Terminate
cmd
dxk
dxv
pf
pv
sc
ww
Config
new app upgrades
Help


DXKeeper 16.3.2 - KC1EO.mdb : 5279 QSOs [QSL queue: 1 QSL] {KC1EO}
Log QSOs
QSL
Check Progress
my QTHs
Import QSOs
Export QSOs
QSO: United States (1:00)
call K5SBD
name
QTH
mode FT8
via
tx freq 14.074884
begin 9/24/2021 14:21
sent +08
rcvd -11
tx band 20M
rx freq 14.074884
end 9/24/2021 14:22
power 100
code 291
DXCC K
entity United States
Auxiliary
QSL
Online QSL
Award
Contest
Propagatio
Details
User-defin
QSL
sent
rcvd
R
R
CFM
VFY
date sent
date rcvd
sent via
rcvd via
IOTA vfy
VUCC vfy
WAS vfy
WAZ vfy
WPX vfy
OQRS
Cred
QSL#
msg
addr
myQTH KC1EO - Syracuse - UT
key
QSL Sent
N - do
R - rec
Y - se
I - do
QSL Rcv
R - rec
Y - co
S - sub
V - ver
I - in
Online QSL
eQSL.cc
sent R
rcvd
CFM
VFY
date sent
date rcvd
Display image
member
LoTW
sent U
rcvd R
CFM
VFY
date sent 9/24/2021
date rcvd
cfm
member
Award
SOTA
IOTA
cont NA
WPX K5
CQ 4
ITU 7
ARRL
state ? TX
county ?
Zone Risk
Country Risk
grid 1 EL09
2
3
4
New
Edit
Undo
CBA
Delete
Report
Plot
5279
Adv
RAT
Capture
Config
Help
Call DXCC Starting UTC Band Mode Sent Rcvd
KD9NJR K 9/23/2021 23:40 20M FT8 +06 -16
N5TXL K 9/23/2021 23:43 20M FT8 +05 -12
KG5JJ K 9/24/2021 03:47 80M FT8 +03 -15
N7ZZE K 9/24/2021 03:52 80M FT8 -05 -16
AB8OU K 9/24/2021 03:57 40M FT8 -05 -13
W5MZX K 9/24/2021 04:10 40M FT8 +06 -14
W5LAC K 9/24/2021 04:21 30M FT8 +05 -14
N5KUC K 9/24/2021 13:44 40M FT8 -09 -14
KO4RQN K 9/24/2021 13:55 30M FT8 -12 -19
WD0J K 9/24/2021 14:12 30M FT8 -03 +03
K3CWE K 9/24/2021 14:16 30M FT8 -19 -17
KA3UJE K 9/24/2021 14:18 30M FT8 -13 -10
K5SBD K 9/24/2021 14:21 20M FT8 +08 -11
Sort: Starting UTC
UTC
Call
User
Filter: None
X
Call
DXCC
Date
Since
Sel
LotW
Broke
~


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

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 (KC1EO - 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

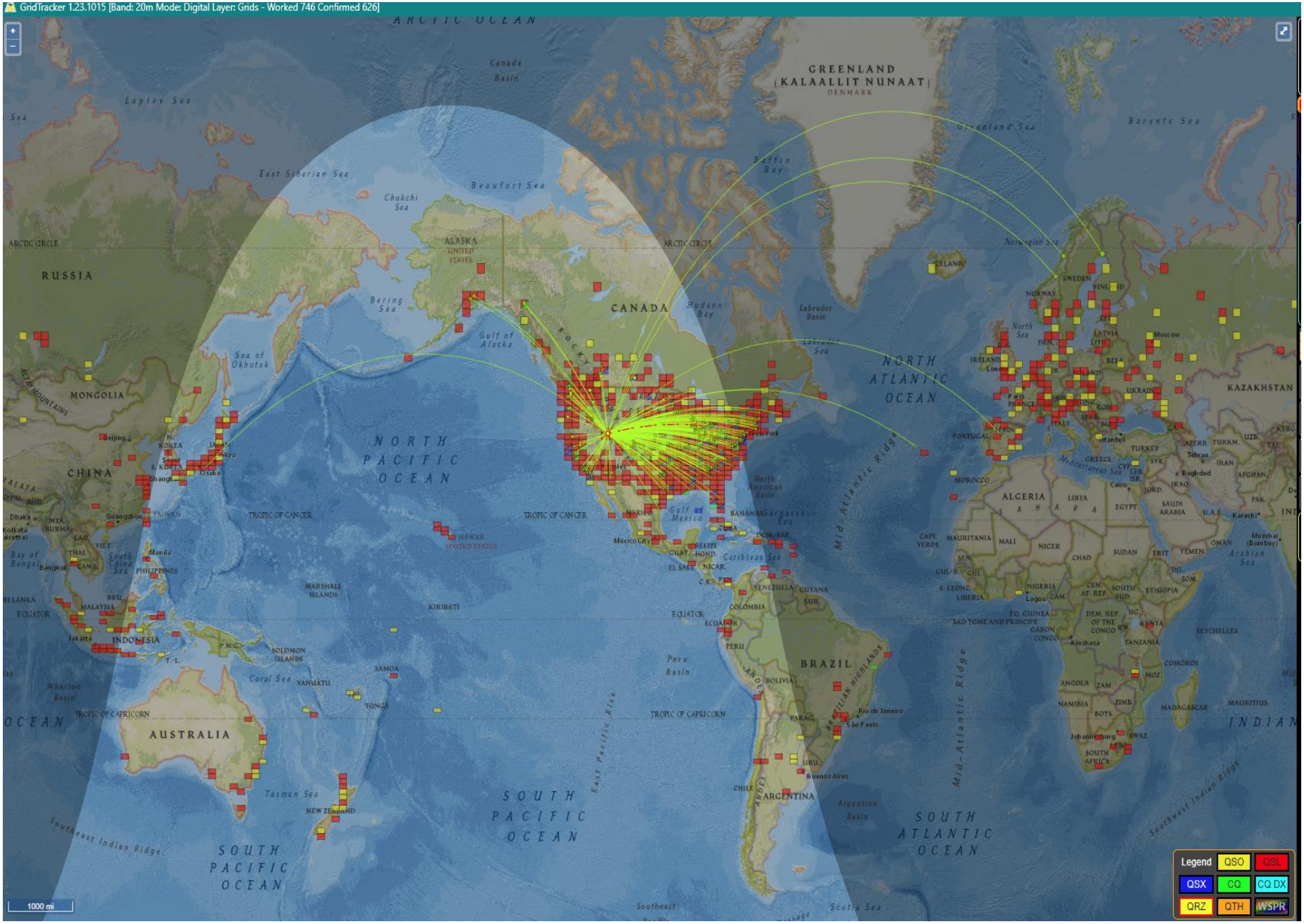
This account includes credits for the following:

KC1EO - UNITED STATES OF AMERICA
This account is linked with DXCC record:

William McGowan, KC1EO

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.

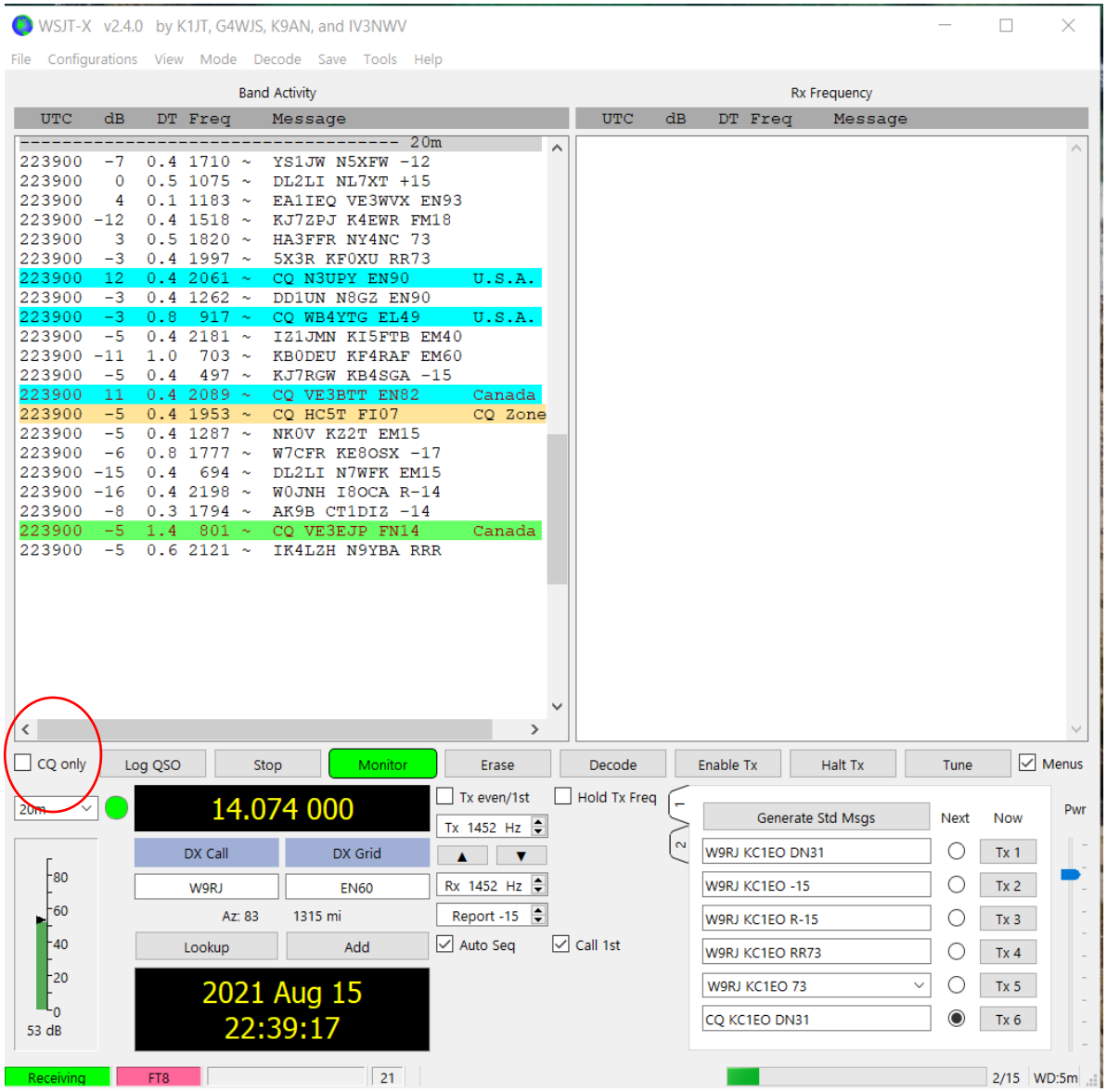

GridTracker 1.23.1015 [Band: 20m Mode: Digital Layer: Grids - Worked 746 Confirmed 626]
GREENLAND
(KALAALLIT NUNAAT)
DENMARK
RUSSIA
CANADA
ALASKA
UNITED STATES
CHINA
MONGOLIA
AUSTRALIA
BRAZIL
INDONESIA
NORTH PACIFIC OCEAN
SOUTH PACIFIC OCEAN
NORTH ATLANTIC OCEAN
SOUTH ATLANTIC OCEAN
ARCTIC OCEAN
INDIAN OCEAN
ARCTIC CIRCLE
TROPIC OF CANCER
TROPIC OF CAPRICORN
EQUATOR
Legend
QSO
QSL
QSX
CQ
CQ DX
QRZ
QTH
WSPR
1000 mi

PSK Reporter screen shot

There is A LOT going on.
You have to decide who's CQ you want to return.
Have you worked them B4?
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..

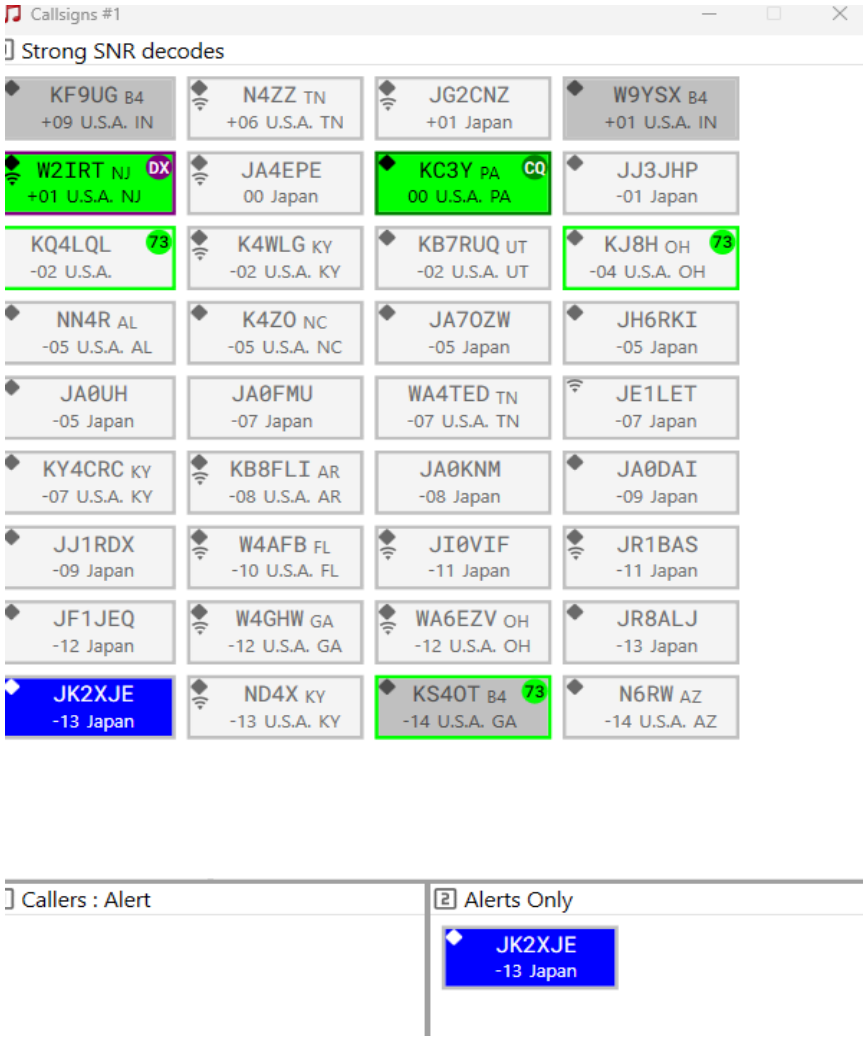
TIMES UP!!!!!!!!

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

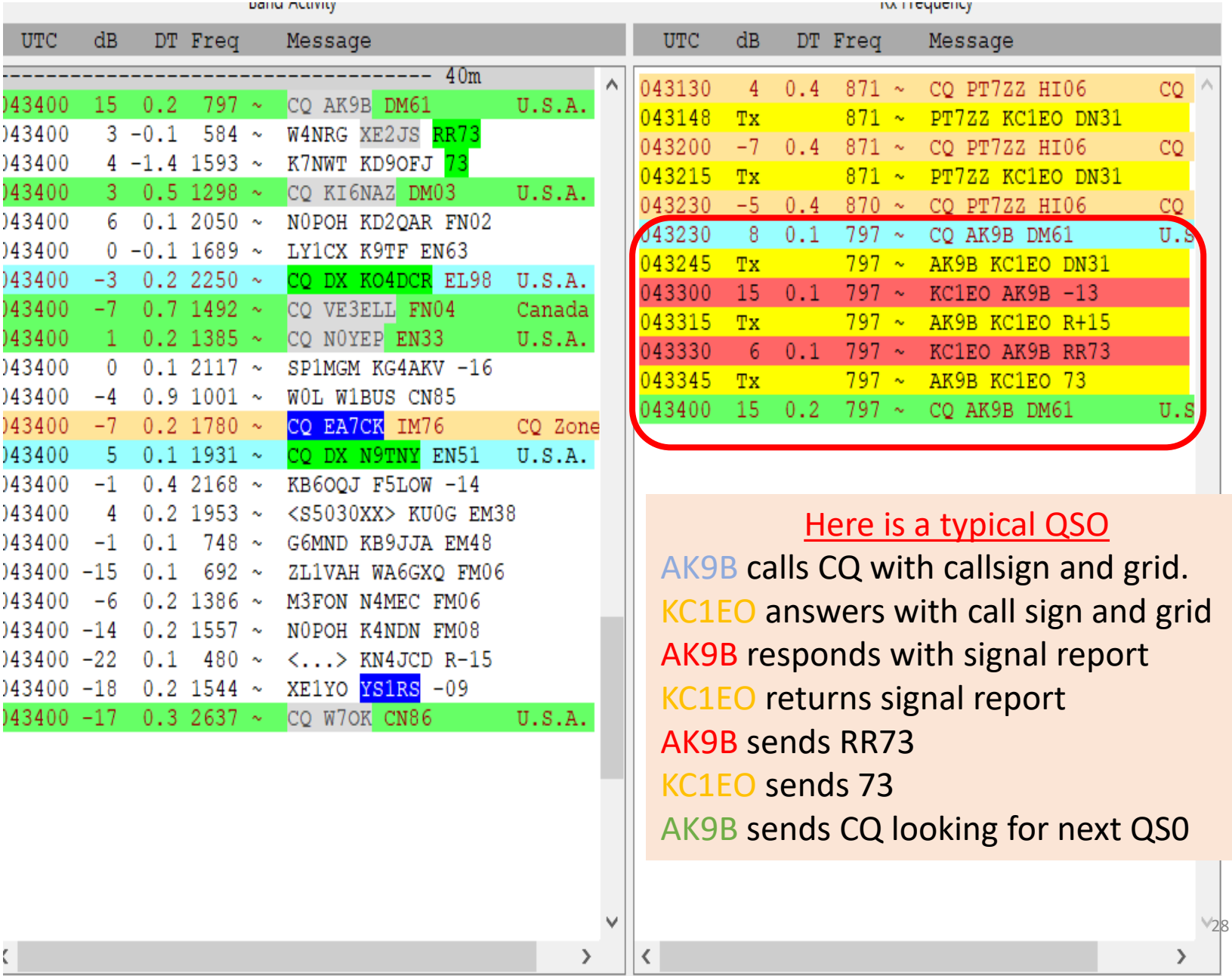


JT Alert

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 process



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)

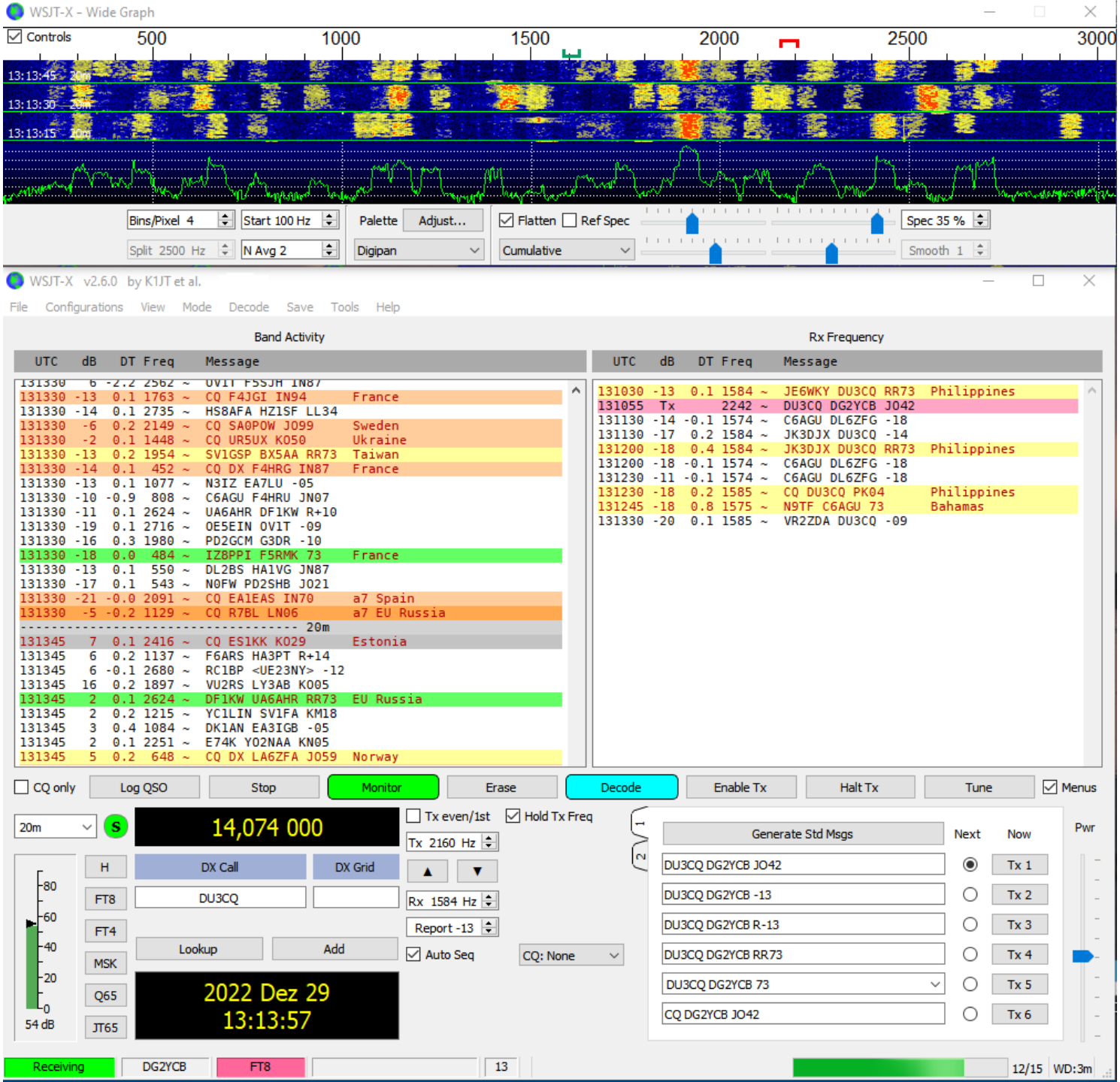
Search and Pounce – Easy Peasy!!! Double click on either the "WSJT-X" call you want to work or "JT-Alert" Callsign box

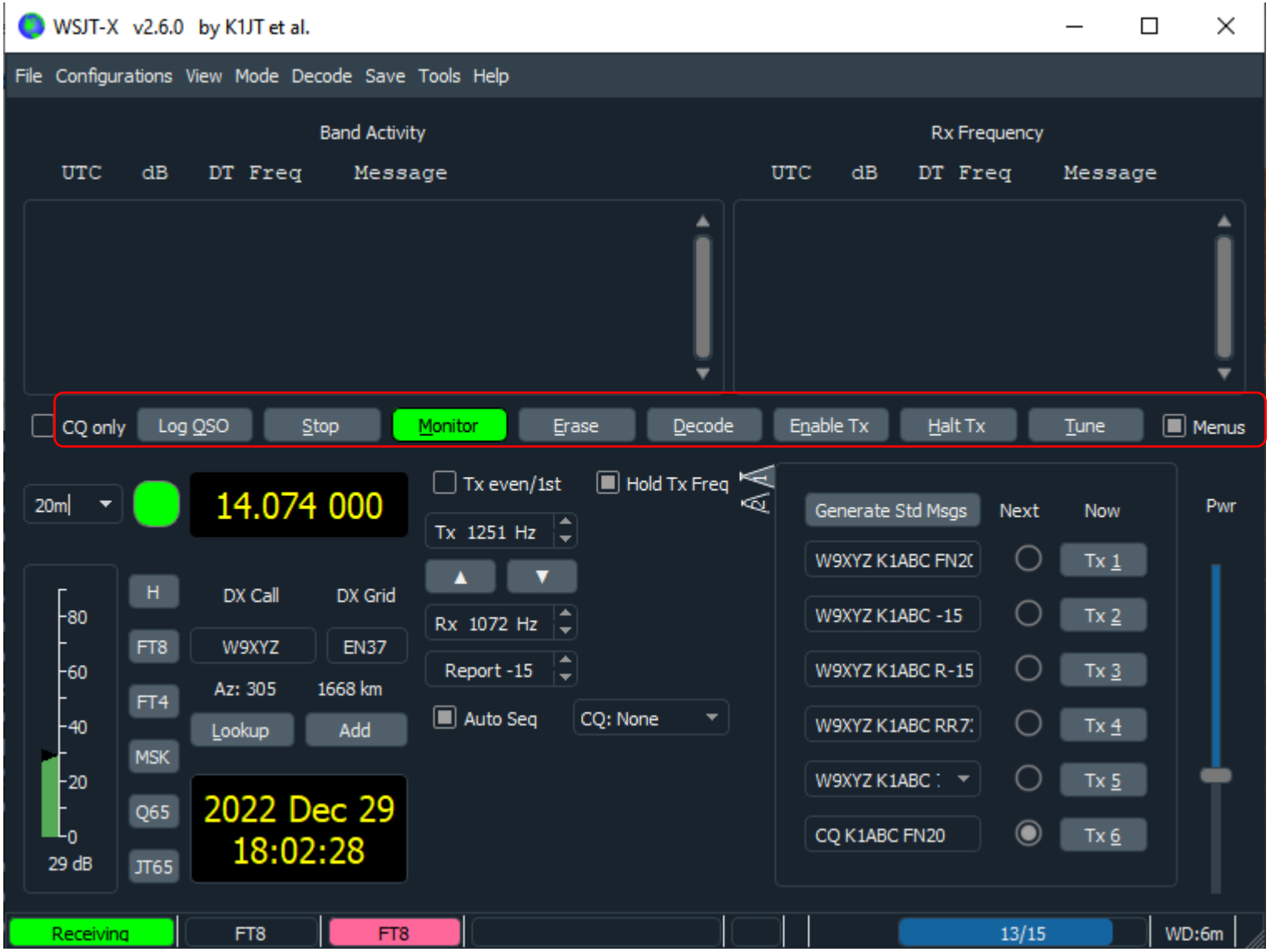
Calling CQ

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
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
Rx Frequency
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


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 hardware (radio) you need to run the program
2 - We've reviewed what hardware (computer) 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…..RTFM - wsjtx-main-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 ???????