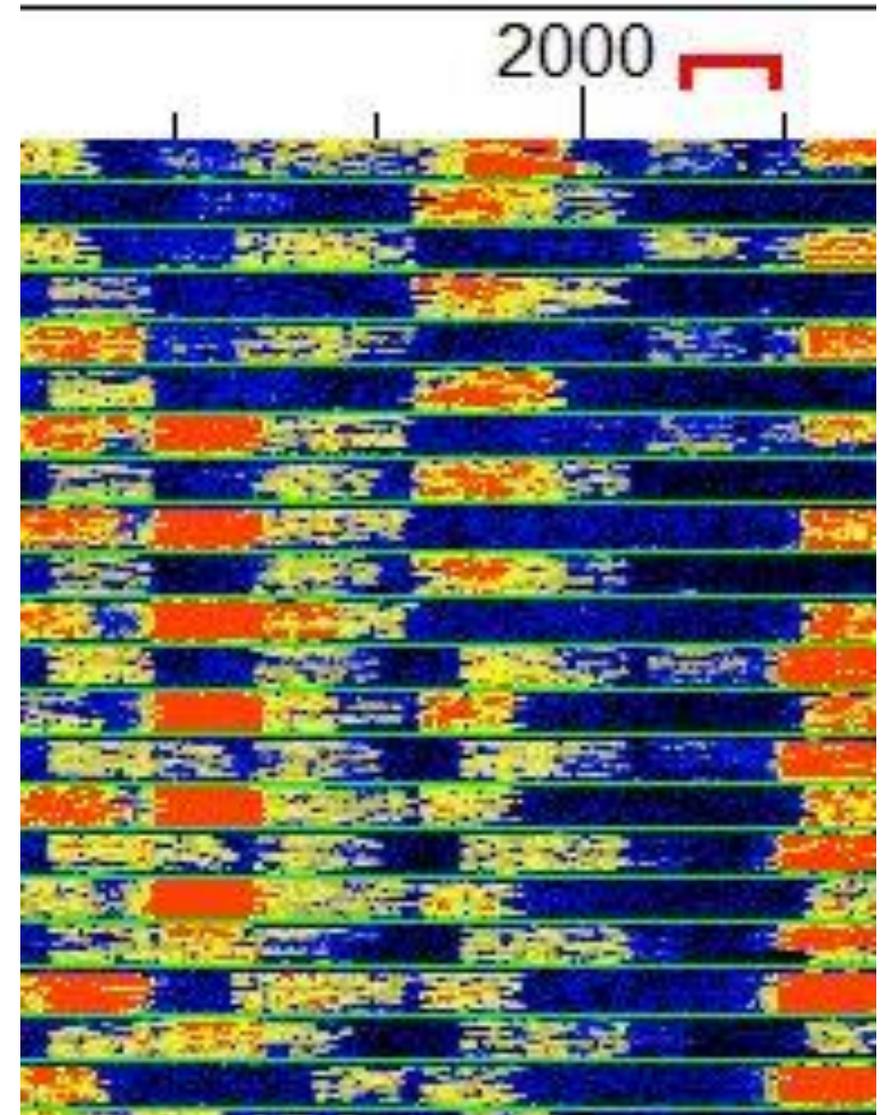


FT8 – Regular and Fox/Hound

Tips and Tricks for DX QSOs

Colin - N5GG

5/21/24

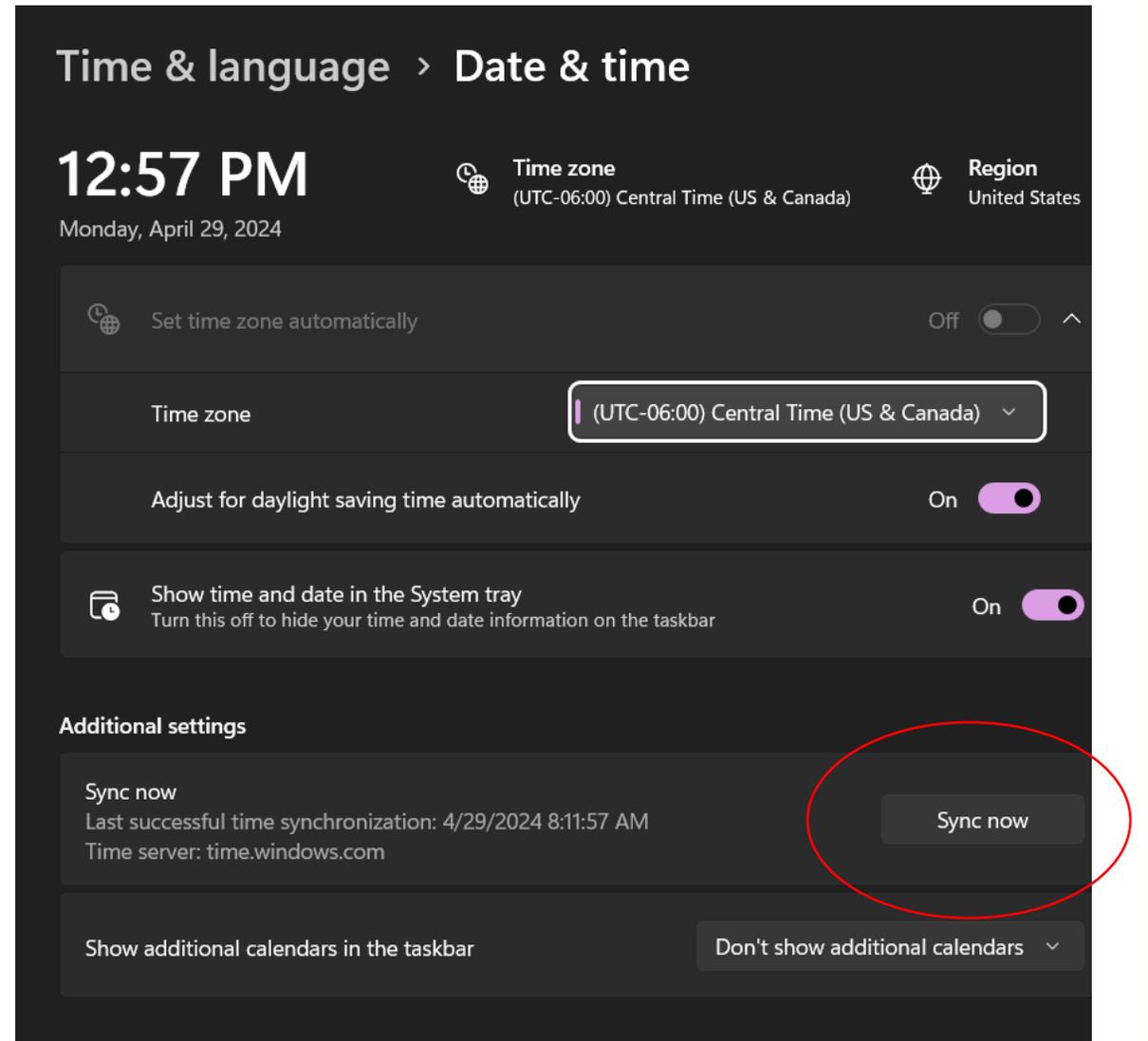


Important and Mandatory Settings for Regular and F/H FT8



Precise PC Clock Setting

- Since FT8 is a time dependent mode, with even and odd tx/rx slots, it is extremely important to have the PC clock set to the exact time with a max tolerance of about +/- 0.5s.
- That should allow for good decoding and in-synch transmissions

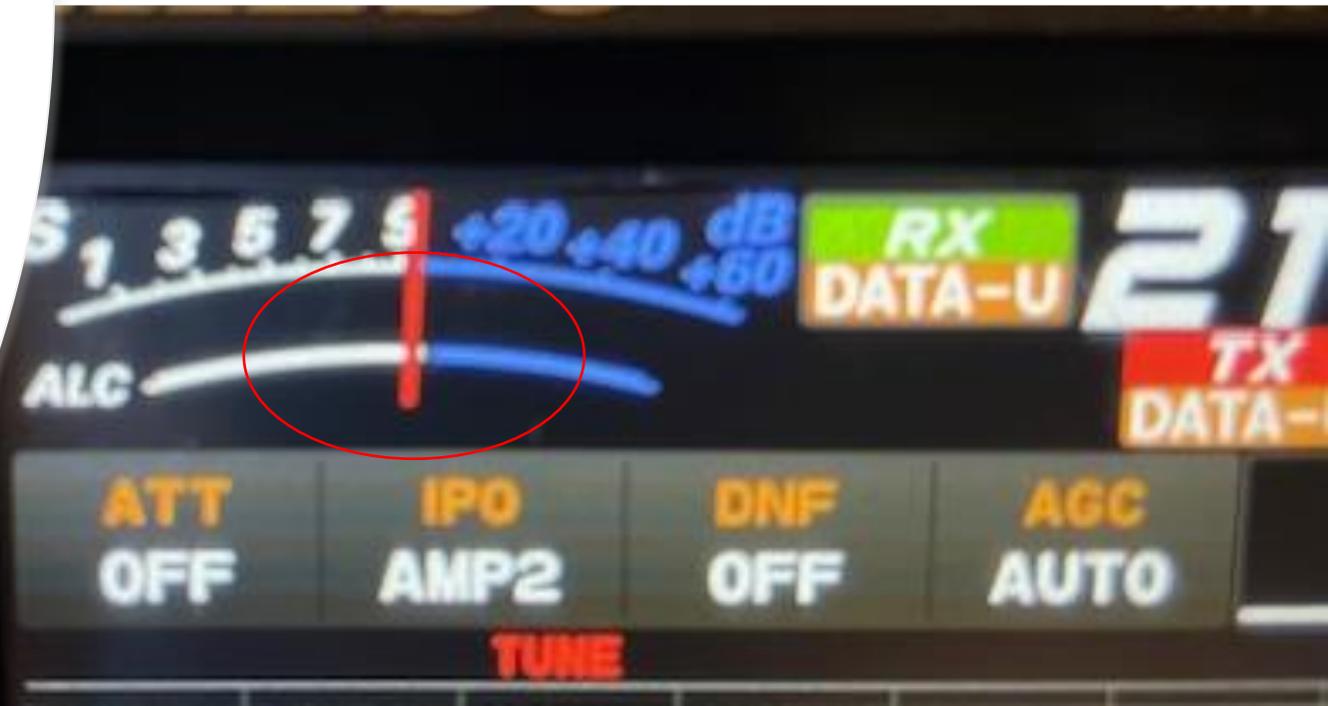


Transmitter PWR and ALC Level

Each Transceiver has a BEST setting for ALC for FT8...

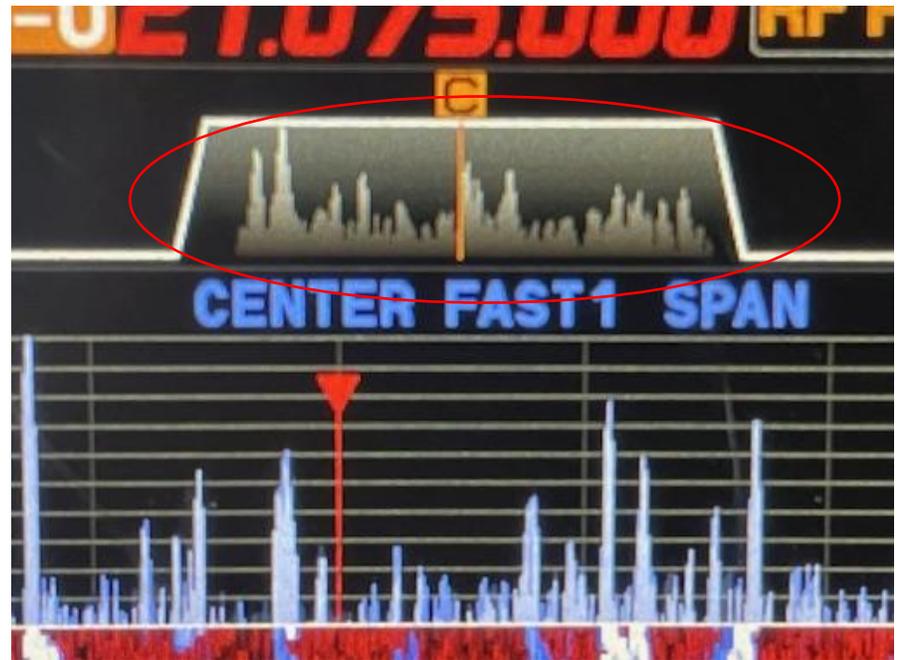
- Yaesu FT-710 – right at white to blue transition
- ICOM 7300 – less than ¼ ALC movement

CHECK your user manual!!!



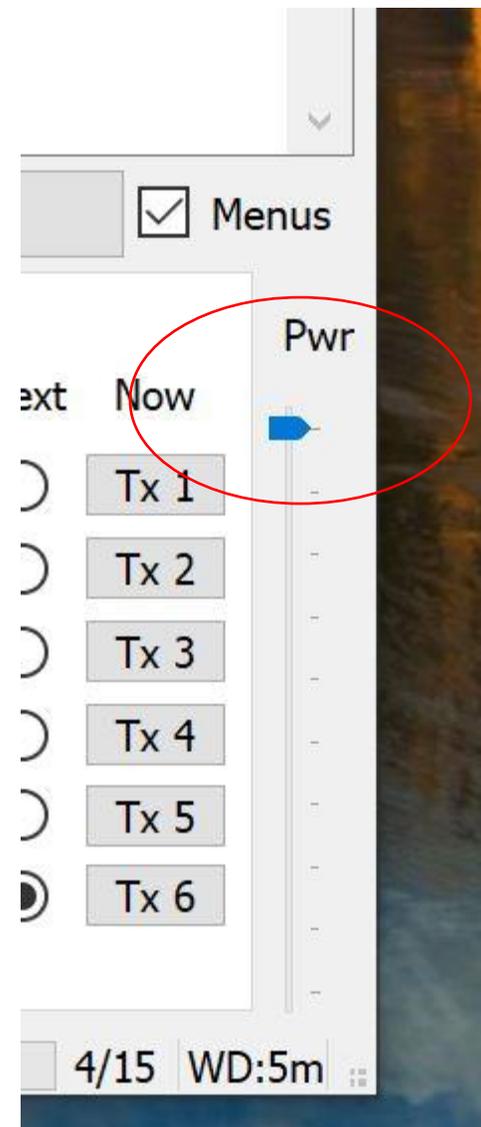
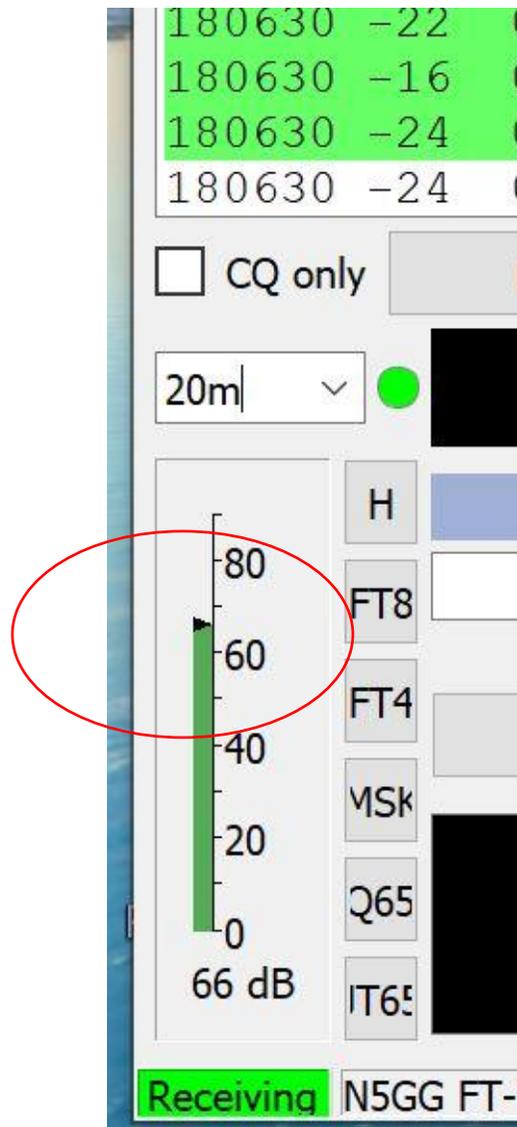
Audio Filter – 3000 Hz or wider

RX Audio Filter and RF Gain



RF Gain – WIDE open

Receive and Transmit Audio Levels



WSJT-X
Software
Setting

Regular FT8



General Tab

Settings

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

Highlight DX Call in message Highlight DX Grid in message

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 Tx watchdog:

CW ID after 73 Periodic CW ID Interval:

Radio Tab

Settings

General Radio Audio Tx Macros Reporting Frequencies Colors Advanced

Rig: Yaesu FT-710 Poll Interval: 1 s

CAT Control

Serial Port: COM4

Serial Port Parameters

Baud Rate: 38400

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: COM3

Transmit Audio Source

Rear/Data Front/Mic

Mode

None USB Data/Pkt

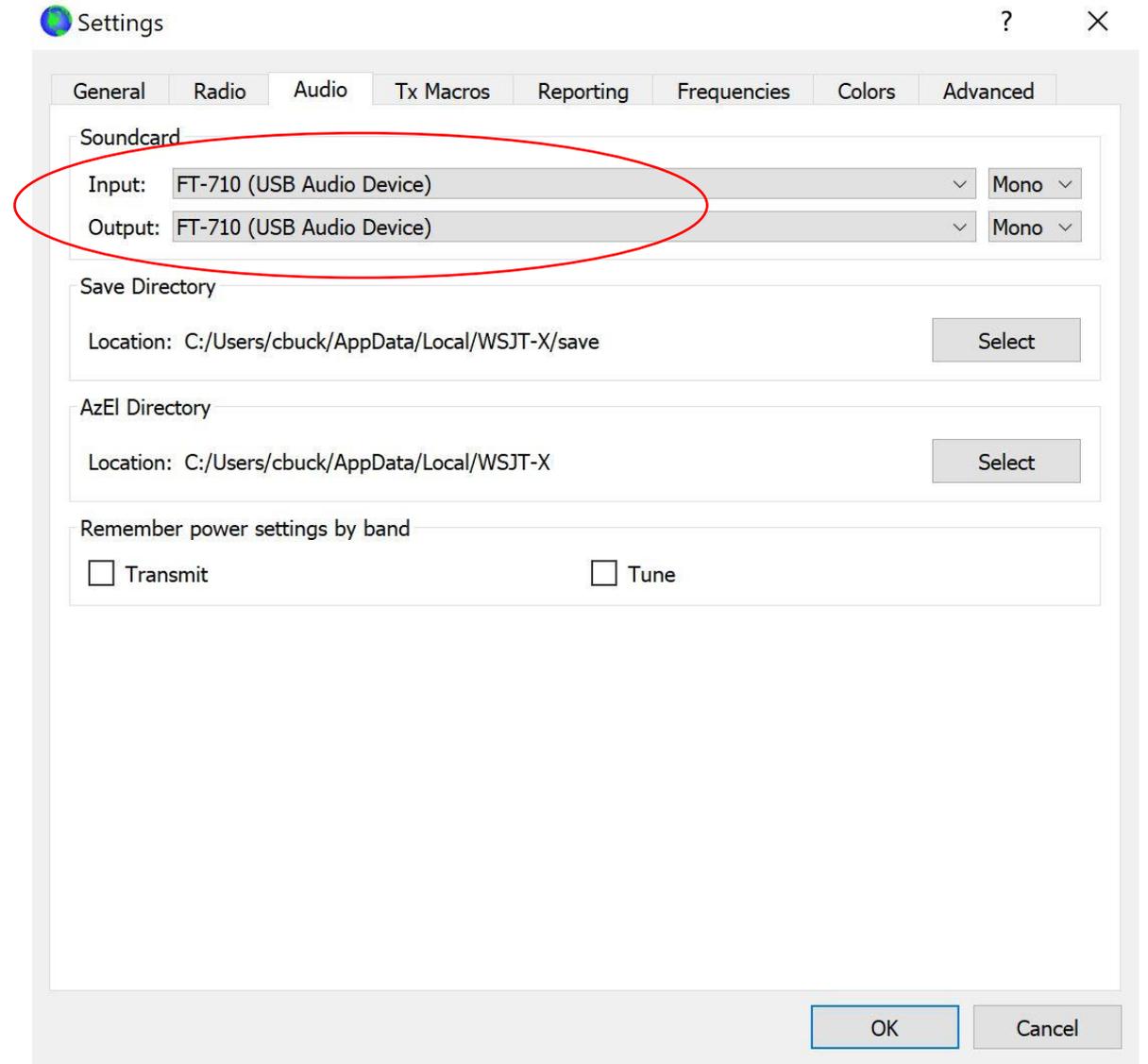
Split Operation

None Rig Fake It

Test CAT Test PTT

OK Cancel

Audio Tab



Reporting Tab

Settings

General Radio Audio Tx Macros Reporting Frequencies Colors Advanced

Logging

Prompt me to log QSO Op Call: N5GG

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: 2237 Notify on accepted UDP request

Outgoing interfaces: loopback_0 Accepted UDP request restores window

Multicast TTL: 1

Secondary UDP Server (deprecated)

Enable logged contact ADIF broadcast

Server name or IP address: 127.0.0.1

Server port number: 2333

OK Cancel

Colors Tab

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]
- New Call [f/g unset]
- New Call on Band [f/g unset]
- LoTW User [b/g unset]
- CQ in message [f/g unset]
- Transmitted message [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:

OK Cancel

Advanced Tab

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 FD Exch:

EU VHF Contest FT Roundup FT RU Exch:

WW Digi Contest ARRL Digi Contest

CQ with individual contest name Contest name: PACC

OK Cancel

FT8 – Regular

Working the
Bands



The Interface

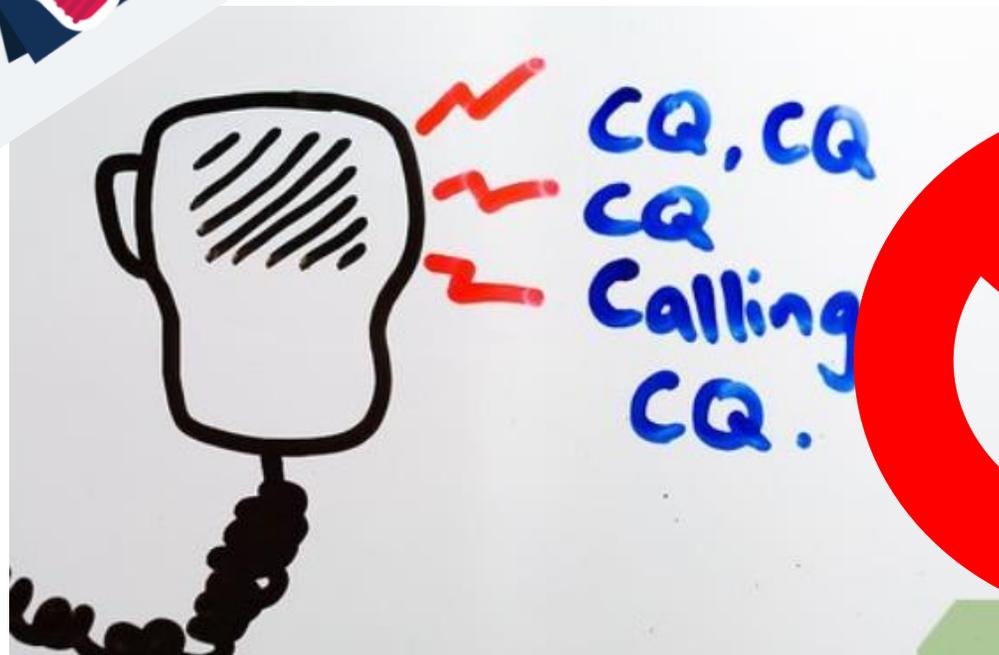
The screenshot displays the WSJT-X v2.6.1 interface. At the top, a waterfall plot shows signal activity from 500 to 3000 Hz. Below the plot are control buttons for 'Bins/Pixel', 'Start 200 Hz', 'Split', 'N Avg', 'Palette', 'Adjust...', 'Flatten', 'Ref Spec', 'Spec 30%', and 'Smooth'. The main window is titled 'WSJT-X v2.6.1 by K1JT et al.' and contains a 'Band Activity' table and an 'Rx Frequency' table.

Band Activity					Rx Frequency				
UTC	dB	DT	Freq	Message	UTC	dB	DT	Freq	Message
181245	-5	0.3	2201	~ WY0X K6RLQ RR73 U.S.A.	180945	-4	0.4	1238	~ CQ KD0XD EN12 U.S.A.
181245	1	-0.1	887	~ CQ W4MAA EM84 U.S.A.	180945	-13	0.4	1246	~ WA9TT KI7PSO DN13
181245	2	0.4	2358	~ KQ4CVX N8BW EN72	181115	-2	0.4	1238	~ CQ KD0XD EN12 U.S.A.
181245	-2	0.3	1779	~ W1JMA KK7QPA DM42	181115	-14	0.4	1246	~ W0ML KI7PSO -06
181245	2	0.4	1328	~ WA9TT WA0LJM 73 U.S.A.	181145	-4	0.4	1238	~ CQ KD0XD EN12 U.S.A.
181245	15	0.4	1948	~ <...> WB9TFH EN53	181215	2	0.4	1238	~ CQ KD0XD EN12 U.S.A.
181245	-11	0.6	2550	~ VE1KEV AE8MI R-10	181245	-5	0.4	1238	~ CQ KD0XD EN12 U.S.A.
181245	5	1.9	1612	~ KA1MXL N5JBV EL29					
181245	2	0.7	1822	~ KD0JXE N7KB R-12					
181245	-12	0.4	1157	~ KQ4CVX KG4CCB EM75					
181245	-5	0.4	1238	~ CQ KD0XD EN12 U.S.A.					
181245	-2	0.3	1351	~ <...> NE9U EN44					
181245	-9	0.6	851	~ <...> KE0SW EN16					
181245	-1	0.4	1277	~ KN6KBS NCON EN32					
181245	-17	1.3	2552	~ NOYJ K2DDD RR73 U.S.A.					
181245	-20	0.3	2415	~ W5MKS KB6JFL +01					
181245	-15	0.5	2238	~ KN6KBS KH2SR CM97					
181245	-19	0.3	889	~ <...> N7GWR DM26					
181245	-19	0.3	1437	~ KF0NYM VE3KZT 73 Canada					
181245	-12	-0.1	1612	~ KA1MXL K4KEO EL87					
181245	-18	0.4	1502	~ CQ KC1UPS FN42 U.S.A.					

At the bottom, the interface shows a frequency display of 14.074 000, a 'Monitor' button, and a 'Generate Std Msgs' section with a list of transmission options (Tx 1 to Tx 6) and a 'CQ N5GG EM13' message.



Tips and Tricks



Unless you are Grid Hunting...

STOP CALLING CQ!!!

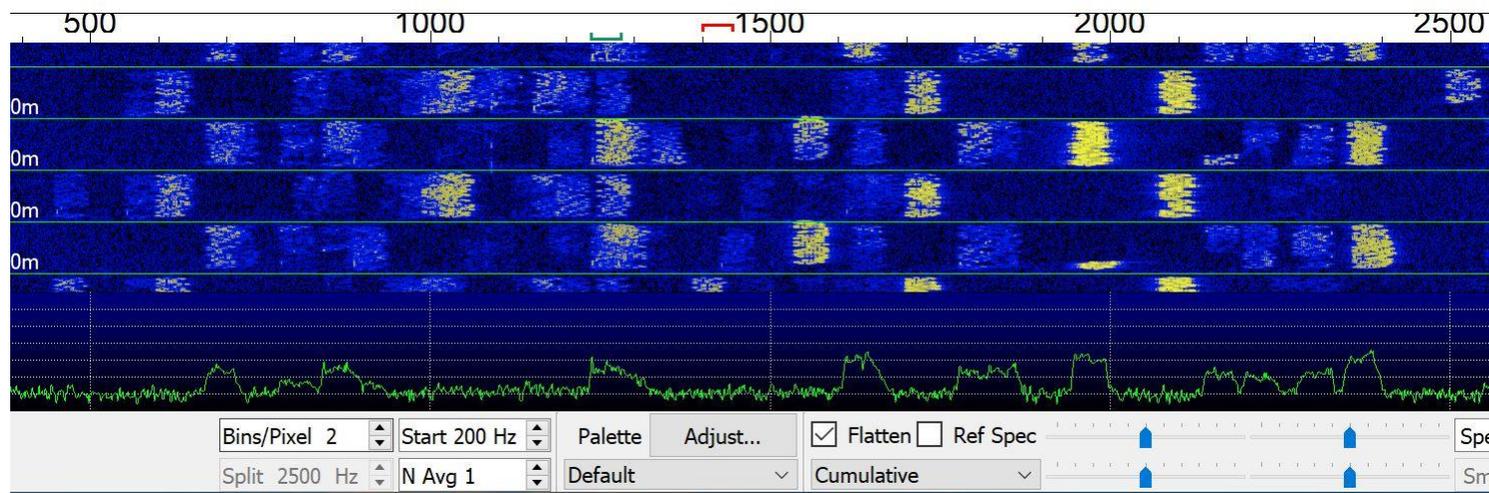
152	4	-0.0	2797	~	CQ KK6TDG CM88	U.S.A.
152	3	-0.6	990	~	NOVVH WA4RH R+08	
152	7	0.3	1414	~	CQ ND6H EL96	U.S.A.
152	1	0.0	735	~	CQ NX4RH FM18	U.S.A.
152	0	0.0	2161	~	CQ WY0V EN12	U.S.A.

Listen, Listen and then Listen again!

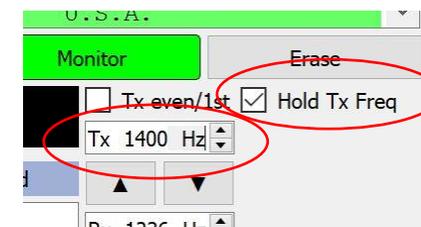


Tips and Tricks

Pick a CLEAN lane
(Multiple of 50 Hz)



Hold your TX lane

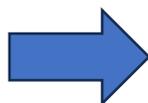




Remember the Color Scheme...

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]
- New Call [f/g unset]
- New Call on Band [f/g unset]
- LoTW User [b/g unset]
- CQ in message [f/g unset]
- Transmitted message [f/g unset]



WSJT-X v2.6.1 by K1JT et al.

File Configurations View Mode Decode Save Tools Help

Band Activity

UTC	dB	DT	Freq	Message
152100	-21	0.1	2010	~ SP5CTY CT3MD 73 Madeira Is.
152100	-18	-0.0	1041	~ CQ AO75IB Spain
152100	-16	1.4	2194	~ SV2ROG SP5LST RR73 Poland
152100	-12	0.0	1459	~ CQ KC1QYD FN41 U.S.A.
152100	-16	0.0	854	~ OH3OJ <AO75NA> R-18
152100	-19	0.1	1191	~ IT9EXH F1EXL R+04
152100	-12	0.0	1338	~ CQ POTA KC3NOB FN20 U.S.A.
----- 17m				
152130	-6	-0.1	322	~ AB0TA 3W9T RR73 Vietnam
152130	-2	-0.1	1944	~ AD0AA KF2GQ EL96
152130	4	-0.0	2797	~ CQ KK6TDG CM88 U.S.A.
152130	13	-0.6	990	~ N0VVH WA4RH R+08
152130	7	0.3	1414	~ CQ ND6H EL96 U.S.A.
152130	1	0.0	735	~ CQ NX4RH FM18 U.S.A.
152130	0	0.0	2161	~ CQ WY0V EN12 U.S.A.
152130	-4	0.1	1783	~ AD0AA KR5EEE EM12
152130	-11	0.0	854	~ <OH3OJ> AO75NA 73 Spain
152130	-14	0.0	2305	~ G0JNH UBOABG R-20
152130	-12	0.1	1191	~ IT9EXH F1EXL 73 France
152130	-12	0.1	2233	~ KJ6HZ UT7UJ -17
152130	-11	0.3	1089	~ GS3PYE R3DHP 73 EU Russia
152130	-8	0.0	1459	~ CQ KC1QYD FN41 U.S.A.
152130	-16	0.1	1676	~ MW0ODQ <AO75GA> -08
152130	-13	0.0	301	~ CQ YO4NF KN44 Romania
152130	-7	0.1	1977	~ KG7UL JJ1BMB -03
152130	-11	0.0	1396	~ CQ ON5AG JO20 Belgium
152130	-15	0.1	2009	~ CQ CT3MD IM13 Madeira Is.



Tips and Tricks

Use the Call Highlight

WSJT-X v2.6.1 by KI1J et al.

File Configurations View Mode Decode Save Tools Help

Band Activity						Rx Frequency					
UTC	dB	DT	Freq	Message		UTC	dB	DT	Freq	Message	
134300	6	0.6	1876	~ KE7MVQ KQ4EPK 73	U.S.A.	134115	2	0.2	631	~ 3W9T AB9JL EN90	
134300	13	0.2	999	~ KH6XX W8BS EM98		134130	-2	0.1	1502	~ KG7UL 3G0YA RR73	Easter Is.
134300	-4	0.1	1460	~ CQ KC1QYD FN41	U.S.A.	134145	Tx		1950	~ 3G0YA N5GG EM13	
134300	-5	-0.4	916	~ KH6XX KD2PTV FN30		134200	1	0.1	1502	~ WT4R 3G0YA +08	
134300	-5	1.2	695	~ CQ VT W1SRR EL98	U.S.A.	134215	Tx		1950	~ 3G0YA N5GG EM13	
134300	-14	0.1	323	~ VE2IK 3W9T RR73	Vietnam	134230	4	0.1	1502	~ WT4R 3G0YA RR73	Easter Is.
134300	-3	0.2	1033	~ IT9EXH PA3CPS JO32		134300	3	0.1	1502	~ KI5HXK 3G0YA +03	
----- 17m -----						134315	Tx		1950	~ 3G0YA N5GG EM13	
134330	0	0.6	2256	~ YB1IQE KQ4EPK R-13		134330	2	0.1	1502	~ KI5HXK 3G0YA RR73	Easter Is.
134330	0	0.1	738	~ 3B8GL NX4RH FM18		134345	Tx		1950	~ 3G0YA N5GG EM13	
134330	15	0.1	2484	~ CQ VE3M2D EN82	Canada						
134330	1	0.1	1875	~ KE7MVQ AC9HP EM69							
134330	6	0.2	999	~ KH6XX W8BS EM98							
134330	-6	-0.4	915	~ KH6XX KD2PTV FN30							
134330	-3	0.1	1459	~ CQ KC1QYD FN41	U.S.A.						
134330	-9	0.3	322	~ IY0GM RJ3T +00							
134330	6	0.2	1682	~ KG7UL KB1EFS -19							
134330	-8	0.2	830	~ CQ K6VHE/HR9	Honduras						
134330	2	1.2	695	~ CQ VT W1SRR EL98	U.S.A.						
134330	9	0.2	1545	~ CQ DX VE6CV DN39	Canada						
134330	-9	0.1	369	~ LX1HD W3EWL FM19							
134330	-12	1.4	1200	~ PP5XA JT1CG RR73	Mongolia						
134330	-19	0.2	1112	~ YB0AOM US2YW 73	Ukraine						
134330	2	0.1	1502	~ KI5HXK 3G0YA RR73	Easter Is.						
134330	-9	0.2	1032	~ IT9EXH PA3CPS JO32							
134330	-9	0.2	879	~ CQ WB3JUV FM29	U.S.A.						
134330	-14	0.1	323	~ CQ 3W9T OK33	Vietnam						

CQ only Log QSO Stop Menu

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

H Auto Seq CQ: None

FT8 Next Now Pwr

FT4 Tx 1

MSK Tx 2

Q65 Tx 3

JT65 Tx 4

Tx 5

Tx 6

Receiving N5GG FT-DX10 FT8 Last Tx: 3G0YA N5GG EM13 19 6/15 WD:5m

5	-0.1	627	~	KO4ATB	3G0YA	-08	
Tx		2101	~	3G0YA	N5GG	EM13	
0	0.8	627	~	KO4ATB	3G0YA	RR73	Easter Is.
Tx		2101	~	3G0YA	N5GG	EM13	
4	-0.2	627	~	N5GG	3G0YA	+07	
Tx		2101	~	3G0YA	N5GG	R+04	
2	-0.1	627	~	N5GG	3G0YA	RR73	Easter Is.
Tx		2101	~	3G0YA	N5GG	73	
1	-0.2	628	~	KD5RBU	3G0YA	+10	

Work the DX

140715	Tx		1950	~	3W9T N5GG EM13	
140700	-14	0.5	1200	~	CQ JT1CO 0020	Mongolia
140716	Tx		1950	~	JT1CO N5GG EM13	
140730	-14	0.5	1200	~	SP7NC JT1CO -07	
140745	Tx		1950	~	JT1CO N5GG EM13	
140800	-11	1.5	1200	~	SP7NC JT1CO RR73	Mongolia
140815	Tx		1950	~	JT1CO N5GG EM13	
140830	-13	0.5	1200	~	N5GG JT1CO -09	
140845	Tx		1950	~	JT1CO N5GG R-13	
140900	-8	0.5	1201	~	N5GG JT1CO RR73	Mongolia
140915	Tx		1950	~	JT1CO N5GG 73	
140930	-12	0.5	1200	~	JT1CO N5GG -12	

...and Another One...

Rack them up...

145230	-8	0.0	322	~	CQ 3W9I OK33	Vietnam
145230	8	0.2	830	~	CQ K6VHF/HR9	Honduras
145245	Tx		1501	~	<K6VHF/HR9> N5GG EM13	
145300	2	0.2	830	~	N5GG <K6VHF/HR9> +07	
145315	Tx		1501	~	<K6VHF/HR9> N5GG R+02	
145330	7	0.2	830	~	<N5GG> K6VHF/HR9 RR73	Honduras
145345	Tx		1501	~	K6VHF/HR9 <N5GG> 73	
145400	10	0.1	829	~	CQ K6VHF/HR9	Honduras

150630	-18	-0.2	2580	~	PP5HR PJ4TB 73	Bonaire
150647	Tx		2050	~	PJ4TB N5GG EM13	
150700	-17	-0.2	2580	~	ZS5GJK PJ4TB FK52	
150715	Tx		2050	~	PJ4TB N5GG EM13	
150730	-16	-0.2	2579	~	ZS5GJK PJ4TB FK52	
150745	Tx		2050	~	PJ4TB N5GG EM13	

UTC	dB	DT	Freq	Message	
165730	-6	0.1	1777	~ WB6MPH OA4DOS -09	
165746	Tx		1101	~ OA4DOS N5GG EM13	
165800	-9	0.1	1778	~ N5GG OA4DOS -10	
165815	Tx		1101	~ OA4DOS N5GG R-09	
165830	2	0.1	1778	~ N5GG OA4DOS RR73	Peru
165845	Tx		1101	~ OA4DOS N5GG 73	

UTC	dB	DT	Freq	Message	
203145	7	0.3	213	~ N5GG HS0ZOY -12	
203200	Tx		2554	~ HS0ZOY N5GG R+07	
203215	2	0.1	213	~ N5GG HS0ZOY RR73	Thailand
203230	Tx		2554	~ HS0ZOY N5GG 73	
203245	-4	0.5	213	~ CQ HS0ZOY OK14	Thailand

					N5GG PJ4TB -14		
					PJ4TB N5GG R-17		
					N5GG PJ4TB RR73	Bonaire	
					PJ4TB N5GG 73		
					ZS5GJK PJ4TB FK52		
					ZS5GJK PJ4TB FK52		
						13	
					R73	Dominica	
						13	
						2	
						11	
						73	Dominica

205300	14	0.2	2024	~	CQ YN1Y EK62	Nicaragua
205315	Tx		2300	~	YN1Y N5GG EM13	
205330	6	0.2	2024	~	N5GG YN1Y +06	
205345	Tx		2300	~	YN1Y N5GG R+06	
205400	1	0.2	2025	~	N5GG YN1Y RRR	
205415	Tx		2300	~	YN1Y N5GG 73	
205430	10	0.2	2024	~	N5GG YN1Y 73	Nicaragua
205530	-4	0.2	2024	~	J66BF YN1Y -17	

235845	Tx		2550	~	A61QQ N5GG EM13	
235900	-17	0.3	2549	~	N5GG A61QQ -18	
235915	Tx		2550	~	A61QQ N5GG R-17	
235930	-21	0.3	2550	~	N5GG A61QQ RR73	United Arab Emirates
235945	Tx		2550	~	A61QQ N5GG 73	

					CQ VK2LAW QF56	Australia
					VK2LAW N5GG EM13	
					N5GG VK2LAW -13	
					VK2LAW N5GG R-15	
					VK2LAW N5GG R-15	
131415	Tx		2400	~	VK2LAW N5GG R-15	
131430	-21	0.2	1706	~	N5GG VK2LAW RR73	Australia
131445	Tx		2400	~	VK2LAW N5GG 73	

230230	-13	0.3	1690	~	KD1AB SU3YM RR73	Egypt
230245	Tx		650	~	SU3YM N5GG EM13	
230300	-13	0.0	1689	~	N5GG SU3YM -17	
230315	Tx		650	~	SU3YM N5GG R-13	
230330	-19	0.2	1688	~	N5GG SU3YM RR73	Egypt
230345	Tx		650	~	SU3YM N5GG 73	
230400	-18	0.6	1689	~	NE9U SU3YM -09	

UTC	dB	DT	Freq	Message		
202030	-15	0.1	1214	~	EALAHY CP7DX RR73	Bolivia
202045	Tx		1500	~	CP7DX N5GG EM13	
202100	-13	0.1	1154	~	N5GG CP7DX -12	
202115	Tx		1500	~	CP7DX N5GG R-13	
202130	-9	0.1	1154	~	N5GG CP7DX RR73	Bolivia
202145	Tx		1500	~	CP7DX N5GG 73	
202200	15	0.1	1154	~	CP7DX N5GG RR73	Bolivia



Don't be Monotinic...

UTC	dB	DT	Freq	Message
202030	-15	0.1	1214	EA1AHY CP7DX RR73 Bolivia
202045	Tx		1500	CP7DX N5GG EM13
202100	-13	0.1	1154	N5GG CP7DX -12
202115	Tx		1500	CP7DX N5GG R-13
202130	-9	0.1	1154	N5GG CP7DX RR73 Bolivia
202145	Tx		1500	CP7DX N5GG 73



Settings | Upload | OQRS | Donat

Club Log: Club Log Live Stream: CP7DX

clublog.org/livestream/CP7DX

CP7DX 20:12:25 18502 QSOs Rate: 4.8 QSOs/min

160 80 60 40 30 20 17 15 12 10 6 4 2 70

Phone CW Data

30:	10M	28.460	SSB	N3NTJ
29:	15M	21.292	SSB	K00L
28:	10M	28.460	SSB	PA7PA
27:	10M	28.460	SSB	KE6HDV
26:	15M	21.292	SSB	IU1NKS
25:	10M	28.460	SSB	K1YMW
24:	10M	28.460	SSB	W3KXR
23:	15M	21.292	SSB	IK6LBT
22:	10M	28.460	SSB	WB5SYT
21:	10M	28.460	SSB	WB1DXD
20:	10M	28.460	SSB	W4HJ
19:	15M	21.292	SSB	WB8TLI
18:	10M	28.460	SSB	W4GMT
17:	15M	21.292	SSB	PY2GG
16:	10M	28.460	SSB	LU7WSH
15:	15M	21.292	SSB	OE8TTR
14:	10M	28.460	SSB	PY1TTN
13:	15M	21.292	SSB	9A1WW
12:	10M	28.460	SSB	N54C
11:	10M	28.460	SSB	K2UQT
10:	15M	21.292	SSB	WB1DXD
09:	10M	28.460	SSB	KC1BBU
08:	10M	28.460	SSB	F4HJO
07:	15M	21.292	SSB	LU5BE
06:	10M	28.460	SSB	K8NYM
05:	10M	28.460	SSB	N2MEE
04:	15M	21.292	SSB	W1GC
03:	15M	21.292	SSB	K9AU
02:	10M	28.460	SSB	I1NNU
01:	15M	21.292	SSB	N5GG

First QSO: 2022-09-25 12:55 Last QSO: < 10 mins Map pins: 30 Update rate: 3s Heartbeat: 20:12:24

Log Search DX Spots Live Stream by Club Log Documentation | Wrong locator?

Active Live Streams

The following Live Streams have been active recently. The ranked listing is for the last 8 hours. The % FT mode in column headings are clickable to sort.

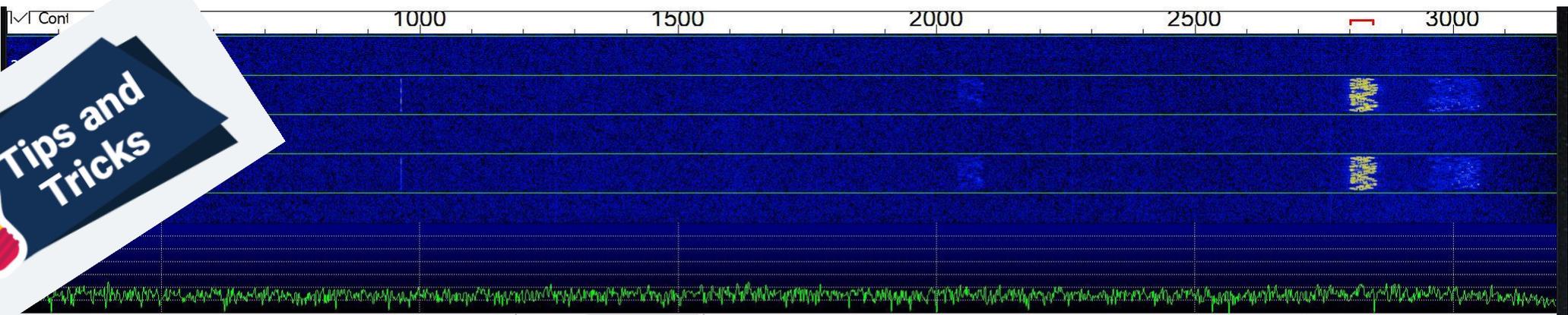
Ranked by DXCC most wanted

Callsign	Location	Rank	Last QSO	% FT	Live Stream
C21TS	NAURU	74	12:13	100%	https://clublog.org
ZC4GW	UK BASES ON CYPRUS	141	06:42	0%	https://clublog.org
VK9DX	NORFOLK ISLAND	142	10:03	100%	https://clublog.org
V85NPV	BRUNEI	151	11:57	0%	https://clublog.org
8Q7KB	MALDIVES	154	12:10	100%	https://clublog.org
J88BTI	SAINT VINCENT	170	11:59	96%	https://clublog.org
5W1SA	SAMOA	181	12:06	100%	https://clublog.org
CP7DX	BOLIVIA	186	12:14	75%	https://clublog.org
XV9Q	VIET NAM	192	07:28	100%	https://clublog.org
9M8HAZ	EAST MALAYSIA	197	11:38	100%	https://clublog.org

- Your Log
- DXCC Charts
- Satellite Charts
- Timelines
- Grid Squares
- QSL Charts
- Zone Charts
- Log Inspector
- Log Matching
- League Tables
- DXCC Leagues
- Satellite Leagues
- Zone Leagues
- Club Leagues
- CDXC Challenges
- Super League



Tips and Tricks



Bins/Pixel 2 Start 200 Hz Palette Adjust... Flatten Ref Spec Spec 30 %
 Split 2500 Hz N Avg 1 Default Cumulative Smooth 1

WSJT-X v2.6.1 by K1JT et al.

File Configurations View Mode Decode Save Tools Help

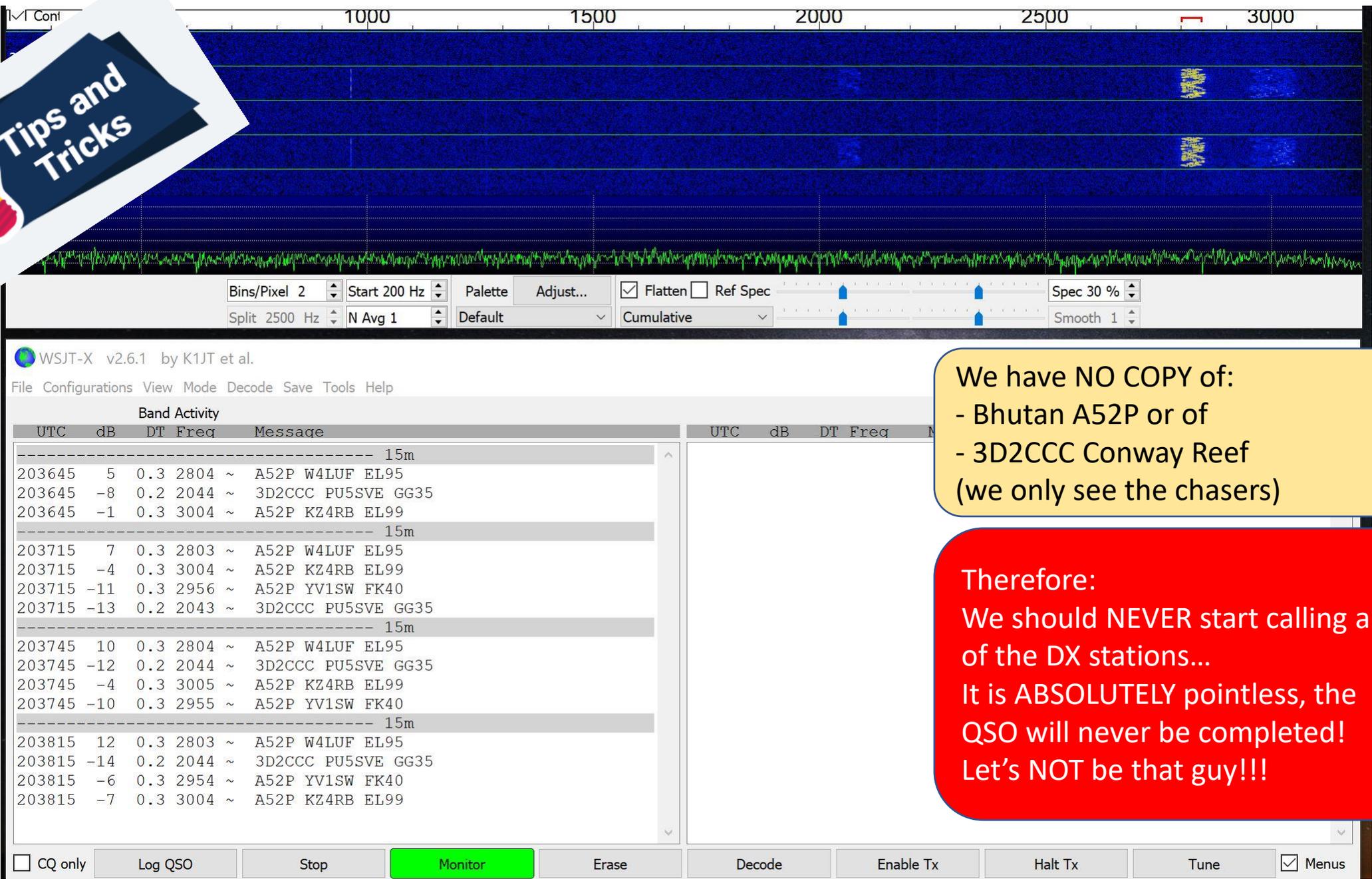
Band Activity					Rx Frequency				
UTC	dB	DT	Freq	Message	UTC	dB	DT	Freq	Message
----- 15m									
203645	5	0.3	2804	~ A52P W4LUF EL95					
203645	-8	0.2	2044	~ 3D2CCC PU5SVE GG35					
203645	-1	0.3	3004	~ A52P KZ4RB EL99					
----- 15m									
203715	7	0.3	2803	~ A52P W4LUF EL95					
203715	-4	0.3	3004	~ A52P KZ4RB EL99					
203715	-11	0.3	2956	~ A52P YV1SW FK40					
203715	-13	0.2	2043	~ 3D2CCC PU5SVE GG35					
----- 15m									
203745	10	0.3	2804	~ A52P W4LUF EL95					
203745	-12	0.2	2044	~ 3D2CCC PU5SVE GG35					
203745	-4	0.3	3005	~ A52P KZ4RB EL99					
203745	-10	0.3	2955	~ A52P YV1SW FK40					
----- 15m									
203815	12	0.3	2803	~ A52P W4LUF EL95					
203815	-14	0.2	2044	~ 3D2CCC PU5SVE GG35					
203815	-6	0.3	2954	~ A52P YV1SW FK40					
203815	-7	0.3	3004	~ A52P KZ4RB EL99					

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

What is wrong here???



Tips and Tricks



We have NO COPY of:

- Bhutan A52P or of
- 3D2CCC Conway Reef

(we only see the chasers)

Therefore:

We should NEVER start calling any of the DX stations...

It is ABSOLUTELY pointless, the QSO will never be completed!

Let's NOT be that guy!!!

SNR / Filters

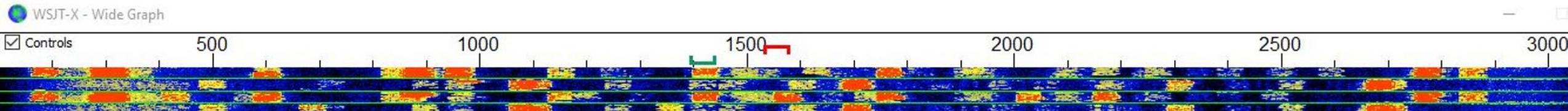
WIDE FILTERING



Tips and Tricks

DT	Freq	Message	UTC	dB	DT	Freq	Message
-9	0.1 1496	~ 8Q7KB KC3PCS FN20	234630	-10	0.2 1394	~	CQ 7Q6M KH67 Malawi
015	-20 0.0 953	~ K6GF KB8QD RR73 U.S.A.	234645	5	0.1 1402	~	8Q7KB AD2L FN11
234815	-6 0.0 819	~ 8Q7KB NA9J EL86	234700	-10	0.2 1395	~	CQ 7Q6M KH67 Malawi
234815	-11 0.0 1478	~ SU3YM KC1THU FN31	234715	2	0.1 1402	~	8Q7KB AD2L FN11
234815	-18 0.5 2485	~ K9EL PY2DPM R+05	234730	-12	1.6 1394	~	CQ 7Q6M KH67 Malawi
234815	-21 0.3 1229	~ 8Q7KB K5LLF -10	234745	-1	0.1 1402	~	8Q7KB AD2L FN11
234815	-24 0.0 1073	~ KL1Y WB8UBR EM79	234800	-14	1.5 1394	~	CQ 7Q6M KH67 Malawi
----- 17m							
234830	-11 0.2 1395	~ CQ 7Q6M KH67 Malawi	234815	4	0.0 1402	~	8Q7KB AD2L FN11
234830	-6 0.1 2687	~ CN8NY KC3UEK FN00	234830	-11	0.2 1395	~	CQ 7Q6M KH67 Malawi
234830	-2 0.3 1334	~ CQ K6RRS DN18 U.S.A.					
234830	13 0.0 954	~ KB8QD K6GF 73 U.S.A.					
234830	14 0.6 1690	~ KE2DFS AI4FR EL88					
234830	2 0.1 1058	~ ES1KK WA4AAV FM05					
234830	-11 0.3 2528	~ CQ R7DX KN84 EU Russia					
234830	-2 0.0 2289	~ SP7NC N3QE -17					
234830	-10 0.0 1238	~ CQ W5XO EM10 U.S.A.					
234830	-14 0.1 617	~ 9V1YC HK3J -08					
234830	-12 0.0 2645	~ EA3ELW AD2CM 73 U.S.A.					

With the Audio Filter at 3.2kHz:
Malawi is being detected at around -12 dB SNR



SNR / Filters

NARROW FILTERING

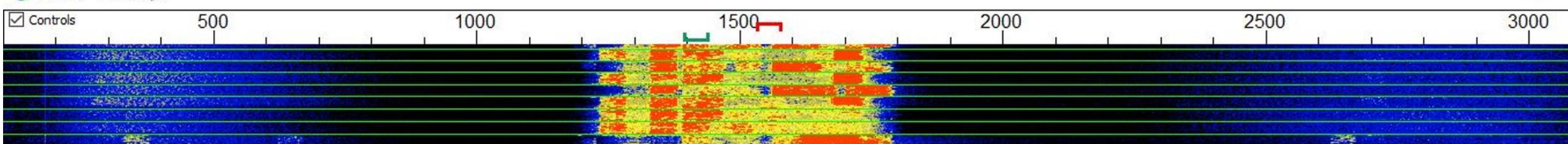


Tips and Tricks

Band Activity						Rx Frequency		
UTC	dB	DT	Freq	Message				
234500	20	0.3	1684	~ VO2ET KO4LZZ FM05				
234500	7	0.1	1238	~ CQ DX W5XO EM10 U.S.A.				
234500	4	0.3	1334	~ CQ K6RRS DN18 U.S.A.				
234500	11	0.2	1422	~ CQ KC6CHL DM04 U.S.A.				
234500	6	0.3	1394	~ CQ 7Q6M KH67 Malawi				

With the Audio Filter at 400 Hz:
Malawi is being detected at around
+6dB SNR

WSJT-X - Wide Graph



Be VERY careful when using NARROW FILTERING... Remember that you will be decoding ONLY the stations within the BW of the filter setting!

To be used only in extreme cases when a STRONG station needs to be "notched" out to help decodability of the DX

FT8 – Fox and Hound



Why was F/H Introduced?

RARE DX using FT8 mode (typical scenario):

- Rare DX wants to operate FT8 on 20m
- Rare DX tunes to 14074 kHz
- Selects a clean lane
- Starts calling CQ

- 2 minutes later absolute chaos ensues because EVERY chaser is now trying to work the rare DX and everyone is stomping on everyone else's transmission, including the DX's frequency!!!

Result:

DX station is frustrated
QSO rates plummet
Chasers are frustrated

let's turn it all off and go watch TV...



What is FT-8 F/H

FT8 – F/H is a variation of the regular FT8 scheme that separates the chasers from the rare DX station and allows for a more orderly and faster QSO flow.

F/H aims at addressing and minimizing the issues in the previous scenario

Characteristics of F/H:

- DX transmission frequency is in the lower 900 Hz of the FT-8 audio passband (300 to 900 Hz)
- Chasers CALL the DX above the 1kHz marker (1kHz to 3kHz)
- DX station works with a queue of chasers
- Objective of the DX station is to keep the queue as full as possible
- Objective of the chasers is to be added to the queue
- When chasers are on the top of the DX station's queue, DX sends the chaser's report (The software detects that the DX answered to the chaser and that moves the chaser's original transmitter lane right to the DX transmit lane)

The idea is that ONLY chasers that received the chaser's report will be on that frequency, increasing the DX's station decoding probability of the chaser station's transmission.

Another new aspect is that the DX station can operate with more than 1 stream (TX lane) at a time. That increases the QSO rate for the DX station. In ideal conditions 400+ Qs/hr is possible. Max is 5 simultaneous streams.

FT-8 F/H Prerequisites

Please note these restrictions and prerequisites:

FT8 F/H (also known as Dxpedition mode) is intended for use by rare-entity DXpeditions and other unusual circumstances in which sustained QSO rates well above 100/hour are expected. Do not use the multi-signal capability if you do not satisfy this requirement.

F/H Mode must not be used in the conventional FT8 sub-bands. If you are contemplating operation as Fox in DXpedition Mode, find a suitable dial frequency consistent with regional band plans and publicize it for the operators you hope to work. Remember that on-the-air signal frequencies will be higher than the dial frequency by up to 4 kHz.

Everyone, including Fox (DX) and all Hounds (Chasers) trying to work Fox, must use **WSJT-X Version 1.9.0 or later.**

Everyone should use **CAT control with Split Operation, either Rig or Fake It**

Every chaser needs to **activate F/H mode in WSJT-X** prior to calling the DX station using F/H

Here is a great detailed document covering the F/H mode:
https://wsjt.sourceforge.io/FT8_DXpedition_Mode.pdf
User Guide / Joe Taylor, K1JT — May 16, 2018

Quoting from K1JT's documentation:

“In FT8 DXpedition mode, QSOs between the DXpedition (“Fox”) and calling stations (“Hounds”) can be completed with as little as one Fox transmission per QSO. Moreover, authorized Foxes can transmit up to five signals simultaneously, thereby allowing QSO rates up to about 500 per hour in ideal conditions.”

FT8 FH spectrum

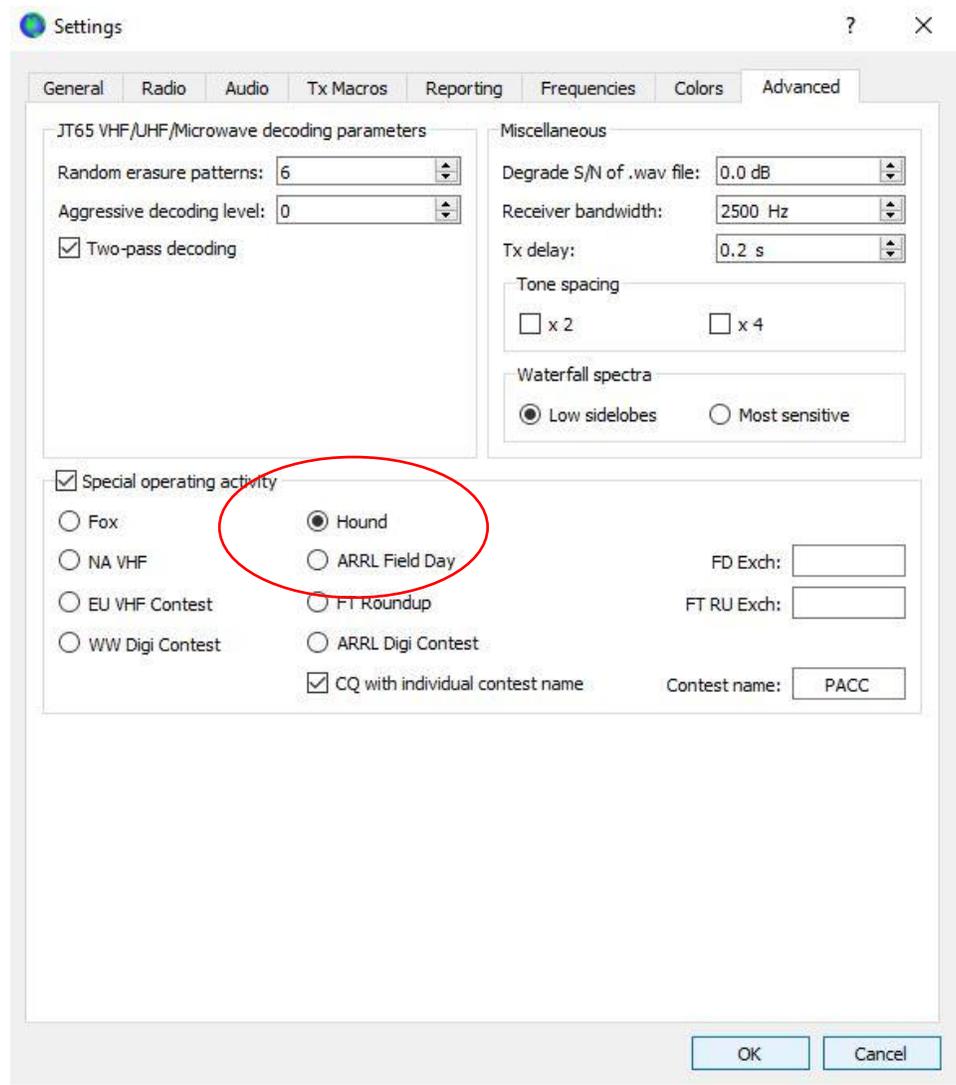
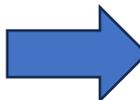
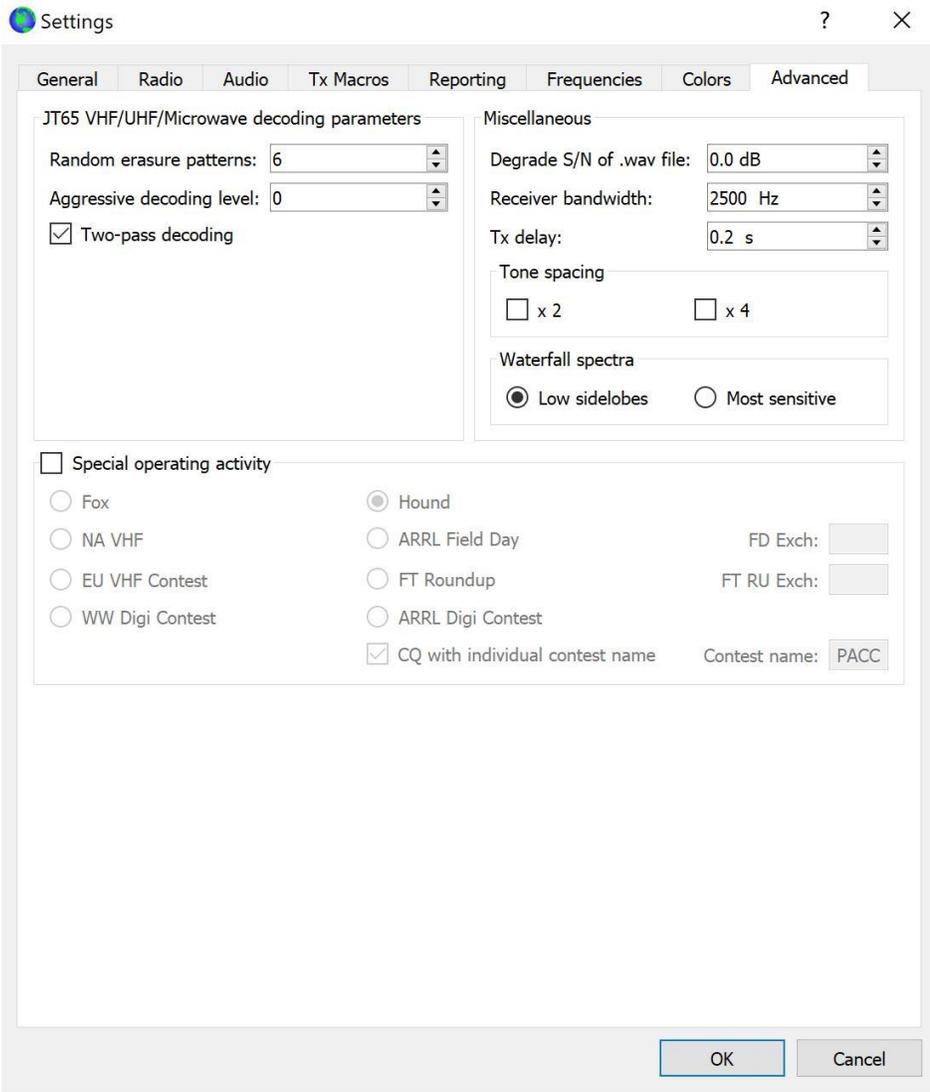
DX station and chasers being worked

Chasers trying to get on the queue



DX using 3 simultaneous streams

Activate F/H mode via Settings Tab



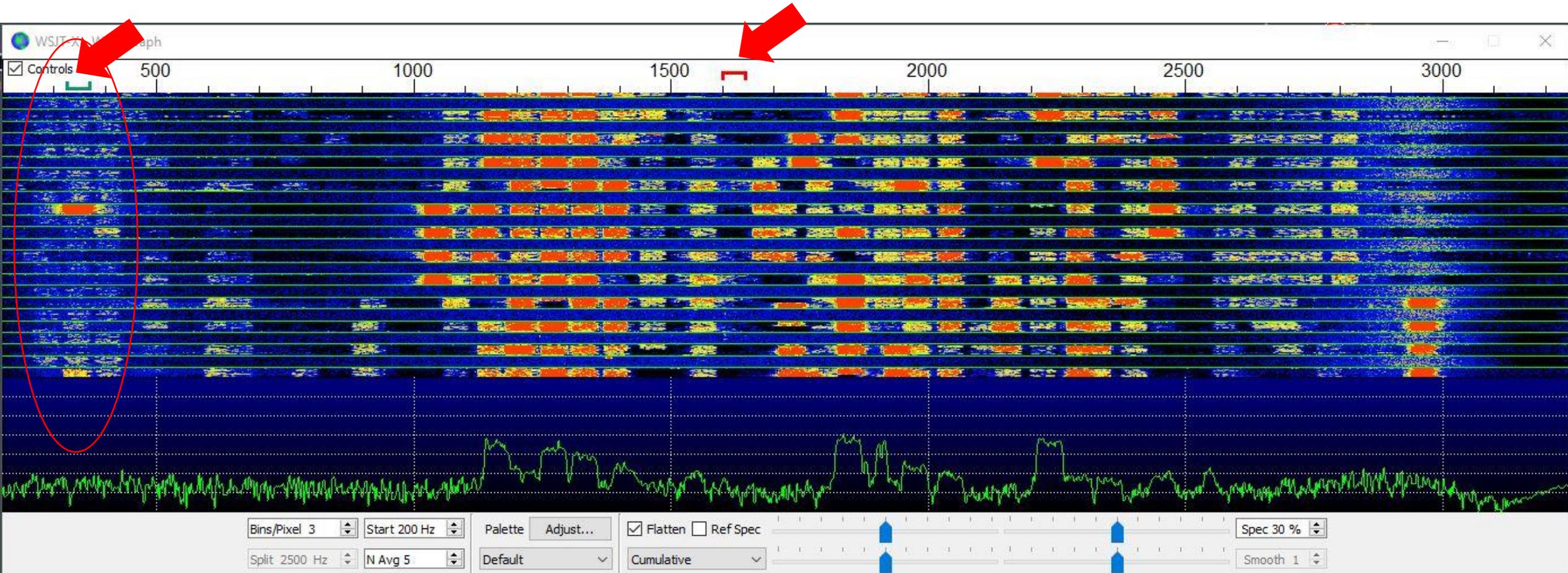


Activate F/H mode
Via main screen

A screenshot of a radio software interface. At the top, there are buttons for "Log QSO", "Stop", "Monitor" (highlighted in green), and "Erase". Below these, a frequency display shows "18.100 000" in yellow on a black background. To the left of the frequency is a vertical signal strength meter with a scale from 0 to 80 dB and a green bar indicating the current level. A red circle highlights a button labeled "H" in a red box. Below the frequency display are fields for "DX Call" (containing "3W9T") and "DX Grid". There are also buttons for "FT8", "FT4", "MSK", "Q65", and "JT65". A "Lookup" button and an "Add" button are also present. On the right side, there are several settings: "Tx even/1st" (checkbox), "Tx 2050 Hz" (dropdown), "Rx 322 Hz" (dropdown), "Report -8" (dropdown), "Rx All Freqs" (checkbox), and "Auto Seq" (checkbox). A red button labeled "Hound" is located at the bottom right. At the bottom of the interface, there is a status bar with "Receiving" (green), "N5GG FT-DX10", "FT8" (pink), and "25".

Select one of the DX lanes for RX

Find a clean lane ABOVE 1kHz



Pick YOUR lanes



Fill the DX call
Generate Standard Messages

Log QSO Stop Monitor Erase Decode Enable Tx Halt Tx Tune Menus

10m 28.070 000 Tx even/1st
Tx 2800 Hz

H DX Call TX7W DX Grid Tx 2800 Hz
▲ ▼

FT8 Rx 400 Hz
▼ ▲

FT4 Lookup Add Report -24
▼ ▲

MSk Rx All Freqs
▼ ▲

Q65 2024 Apr 30
00:59:26 Auto Seq **Hound**

1 Generate Std Msgs Next Now
2 TX7W N5GG EM13 Tx 1
TX7W N5GG -24 Tx 2
TX7W N5GG R-24 Tx 3
TX7W N5GG RR73 Tx 4
TX7W N5GG 73 Tx 5
CQ PACC N5GG EM13 Tx 6

Pwr



Check List

“Hound Checklist”

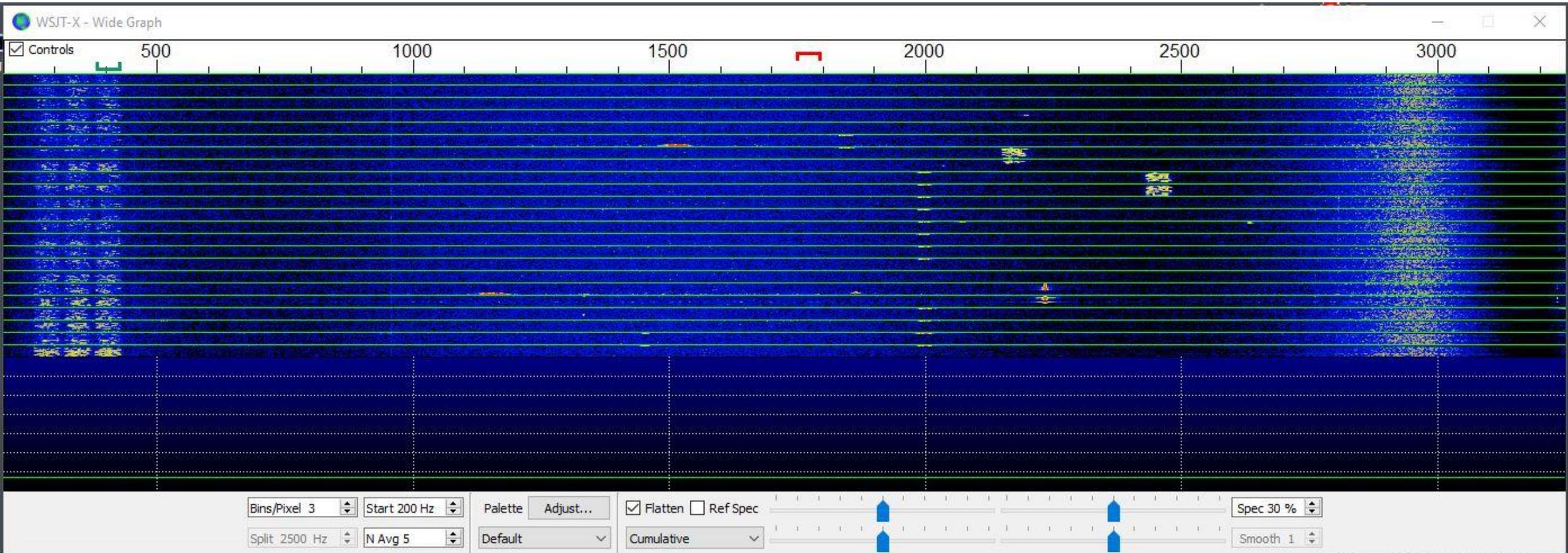
- Verify you can hear the Fox
- Properly enabled Hound Mode
- Entered Fox’s Freq in Table
- Enter Fox callsign into Call field and click Gen Msgs button
- Set Tx Freq > 1000 Hz
- Select the Tx 1 Field

THEN: click on the Enable TX button and start calling the DX (fox)

Try to get on the DX queue

					Rx Frequency
UTC	dB	DT	Freq	Message	
170000	13	-0.1	329 ~	WA9JBQ TX7W -14	
170015	Tx		1101 ~	TX7W N5GG EM13	
170030	10	-0.1	329 ~	WA9JBQ RR73; VE3YXO <TX7W> -20	
170045	Tx		1101 ~	TX7W N5GG EM13	
170100	5	-0.1	329 ~	VE3YXO TX7W -19	
170115	Tx		1101 ~	TX7W N5GG EM13	
170130	-1	-0.1	329 ~	VE3YXO TX7W RR73	
170145	Tx		1101 ~	TX7W N5GG EM13	
170200	0	-0.1	329 ~	WA9JBQ RR73; W7TEC <TX7W> -08	
170218	Tx		1101 ~	TX7W N5GG EM13	
170230	0	-0.1	329 ~	W7TEC TX7W -08	
170245	Tx		1101 ~	TX7W N5GG EM13	
170300	1	-0.1	329 ~	W7TEC TX7W RR73	
170315	Tx		1101 ~	TX7W N5GG EM13	
170330	2	-0.1	329 ~	WA9JBQ RR73; K0AY <TX7W> -02	

This is the waterfall when you are calling the DX (you see only the DX slot)



DX using 3 simultaneous streams

Not much happening here... this is the DX slot and he is below 1kHz

This is what the DX station sees
(Their settings is configured as a FOX)

Stations calling DXpedition VK9LAA						
Call	Grid	dB	Freq	Dist	Age	Continent
WP4JLU	FK68	-7	1427	15205	0	NA
KG8P	EN81	-12	1689	14481	0	NA
W9ROG	EN62	-13	1194	14175	0	NA
KD8MRL	EN50	-24	1804	13965	0	NA
AI5DZ	EM12	-17	2541	13014	0	NA
AJ6LG	CM97	-13	2343	11285	0	NA
JM8FEI	QN03	-3	2614	8514	0	AS
JA8XQI	QN03	-4	1113	8514	0	AS
JA2UBD	PM85	6	1056	7773	1	AS
JE2WNL	PM95	11	1240	7714	0	AS
JE2AVU	PM95	11	1872	7714	3	AS
JF1DKB	QM05	16	1552	7660	0	AS
YC1JEL	OI33	-9	1891	6065	0	OC

Assuming the Fox can hear you, you will appear in the Stations Calling Window

This window is sorted by strongest signal by default, although the Fox may sort by Distance (as shown here)

YOUR goal is to make it onto this list and then to be MANUALLY selected by the FOX to join his queue!

This is the FOX's Queue and Progress Window

Queue		In Progress	
WB5JJJ	-17	NA2AA	1
HK4EI	-09	CE3DOH	1
KA9J	-13		
W9LN	-20		
K2LYV	-08		
VE3NI	-11		
W2NWU	-16		
N7TW	-06		

The Fox double clicks a callsign in the Stations Calling window, which moves that callsign to the bottom of the Queue. The Queue has 10 positions. The Fox may select any callsign in any order from the Stations Calling Window to move to the Queue.

Each station “bubbles up” through the Queue until he is on the top (which creates new space at the bottom of the queue)

That station then moves to the In Progress Window

New Feature: The Fox can move any station to the top of the Queue, just for club members and buddies!

Fox's entire screen
 K7AR – Al Rovner running FT8 FOX
 during the **Dxpedition to VK9LAA**
Lord Howe Is. - 2023

VK9LAA



Robert "Bob" Norin

Lord Howe Island
 Australia

QSL: OQRS, LOTW, or via W7YAQ

WSJT-X v2.7.0-rc2 by K1JT et al.

File Configurations View Mode Decode Save Tools Help

Stations calling DXpedition VK9LAA

Call	Grid	dB	Freq	Dist	Age	Continent
WP4JLU	FK68	-7	1427	15205	0	NA
KG8P	EN81	-12	1689	14481	0	NA
W9ROG	EN62	-13	1194	14175	0	NA
KD8MRL	EN50	-24	1804	13965	0	NA
AI5DZ	EM12	-17	2541	13014	0	NA
AJ6LG	CM97	-13	2343	11285	0	NA
JM8FEI	QN03	-3	2614	8514	0	AS
JA8XQI	QN03	-4	1113	8514	0	AS
JA2UBD	PM85	6	1056	7773	1	AS
JE2WNL	PM95	11	1240	7714	0	AS
JE2AVU	PM95	11	1872	7714	3	AS
JF1DKB	QM05	16	1552	7660	0	AS
YC1JEL	OI33	-9	1891	6065	0	OC

Rx Frequency

UTC	dB	DT	Freq	Message
003445	-7	0.2	602	~ VK9LAA K6XJ R-07
003445	-18	0.2	299	~ VK9LAA K4G0 R-24
003500	Tx		600	@ K6XJ RR73; KK9M <VK9LAA> -13
003515	-15	0.4	1871	~ VK9LAA KK9M R-16
003530	Tx		600	@ KK9M RR73; N4TZ <VK9LAA> -12
003600	Tx		600	@ N4TZ VK9LAA -12
003615	-14	0.2	1332	~ VK9LAA N4TZ R+11
003630	Tx		600	@ N4TZ RR73; K5VRX <VK9LAA> -10
003645	-15	0.2	1075	~ VK9LAA K5VRX R-13
003700	Tx		600	@ K5VRX RR73; WT8E <VK9LAA> -17
003730	Tx		600	@ WT8E VK9LAA -17
003745	-14	0.2	598	~ VK9LAA WT8E R-23
003800	Tx		600	@ WT8E RR73; K9ORN <VK9LAA> -13
003830	Tx		600	@ K9ORN VK9LAA -13
003845	-6	0.3	1927	~ VK9LAA K9ORN R-15
003900	Tx		600	@ K9ORN RR73; NA2AA <VK9LAA> -24
003915	-18	0.2	2297	~ VK9LAA NA2AA R-16
003930	Tx		600	@ NA2AA RR73; CE3DOH <VK9LAA> -10

Log QSO Stop Monitor Erase Decode **Enable Tx** Halt Tx Tune Menus

15m **S** **21.079 000** Tx even/1st Hold Tx Freq
 Tx 600 Hz Rx 600 Hz Report -15 Auto Seq

H DX Call DX Grid
 FT8 AI9Q
 FT4
 MSK
 Q65
 JT65

Lookup Add

2023 Oct 03
00:39:35

Fox

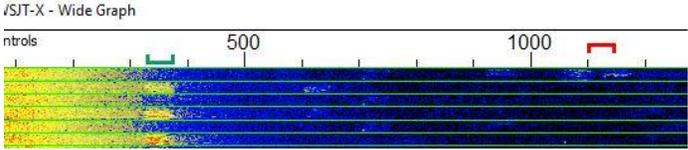
Queue In Progress
 1 WB5JJJ -17 NA2AA 1
 2 HK4EI -09 CE3DOH 1
 KA9J -13
 W9LN -20
 K2LYV -08
 VE3NI -11
 W2NWX -16
 N7TW -06

Distance N List 15 Max dB 70 N Slots 1 CQ More CQs Reset

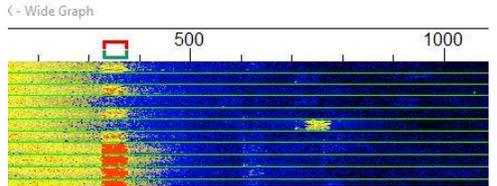
NA2AA RR73; CE3DOH <VK9LAA> -10 FT8 Last Tx: 23 5/15 WD:35m

Eventually you will get on the queue
and work the DX
Note: the whole QSO is only 2
exchanges per side

N5GG is listening for TX7W on 329 Hz
And is trying to call him on 1101 Hz
Over
And
Over and over and over...
Until...



N5GG calls on 1101 Hz
TX7W replies on 329 Hz
N5GG changes to 329 Hz and sends report
TX7W finishes with RR73 and works next in queue



Rx Frequency				
UTC	dB	DT	Freq	Message
170000	13	-0.1	329	~ WA9JBQ TX7W -14
170015	Tx		1101	~ TX7W N5GG EM13
170030	10	-0.1	329	~ WA9JBQ RR73; VE3YXO <TX7W> -20
170045	Tx		1101	~ TX7W N5GG EM13
170100	5	-0.1	329	~ VE3YXO TX7W -19
170115	Tx		1101	~ TX7W N5GG EM13
170130	-1	-0.1	329	~ VE3YXO TX7W RR73
170145	Tx		1101	~ TX7W N5GG EM13
170200	0	-0.1	329	~ WA9JBQ RR73; W7TEC <TX7W> -08
170218	Tx		1101	~ TX7W N5GG EM13
170230	0	-0.1	329	~ W7TEC TX7W -08
170245	Tx		1101	~ TX7W N5GG EM13
170300	1	-0.1	329	~ W7TEC TX7W RR73
170315	Tx		1101	~ TX7W N5GG EM13
170330	2	-0.1	329	~ WA9JBQ RR73; K0AY <TX7W> -02
170345	Tx		1101	~ TX7W N5GG EM13
170400	0	-0.1	329	~ K0AY RR73; N5GG <TX7W> +06
170415	Tx		329	~ TX7W N5GG R+00
170430	-8	-0.1	329	~ N5GG RR73; W7HRF <TX7W> +02
170500	-10	-0.1	329	~ W7HRF RR73; W7ACM <TX7W> -06
170530	-9	-0.1	329	~ W7ACM TX7W -05
170600	-10	-0.1	329	~ YY5RVC TX7W -01
170630	-13	-0.1	329	~ YY5RVC TX7W -01
170700	-2	-0.0	329	~ W0QL TX7W +04

Whole QSO



What happens when a chaser (**Hound**) moves from the **Queue** to the **In Progress** state?

- A Hound has 5 opportunities to complete a successful QSO
- For the first 3 cycles, the Fox sends a Report and expects a Reply Report
- If a Reply Report is received during the first 3 attempts, the Fox sends the Hound an RR73 message and logs the QSO
- If no Reply Report is received after 3 attempts, the Fox will contact the next station in the Queue
- Even though the Fox is contacting the next station, he will listen for 2 additional cycles for the first Hound's Reply Report. This is called the Grace Period.



What happens if the Hound loses or fails all 5 opportunities for a QSO?



If the QSO was NOT completed...

- The Fox will not make any other attempts to call or listen for the Hound
- The Hound has forfeited this opportunity for a QSO
- What should the Hound do in this case?
- Reset and go back to the Hound Checklist
 - Set Tx Freq > 1000 Hz
 - Select Tx 1 field to transmit
 - Select Enable Tx to call the Fox for a second attempt
- (Hopefully) the Hound will re-appear in the Stations Calling Window and go back through the process again

Start OVER!!!



What should the chaser
(Hound) NOT DO???

- Do not keep sending the Fox a Report
- The Fox will not reply. This attempt for a QSO has failed
- The Hound must Reset as previously stated (because the Fox likely moved your Tx Freq below 1000 Hz on the first attempt)
- Operating as a Fox, I have seen stations keep sending their report for over an hour. The Fox will not reply to this.

Another Example of a successful F/H QSO

WSJT-X v2.6.1 by K1JT et al.

File Configurations View Mode Decode Save Tools Help

Band Activity

UTC	dB	DT	Freq	Message
----- 17m				
142830	9	0.2	484	~ OV1PH 3G0YA -07
142830	7	0.2	544	~ DF9PG 3G0YA +01
----- 17m				
142900	0	0.1	485	~ OV1PH 3G0YA -06
142900	-1	0.1	545	~ DF9PG 3G0YA RR73 Easter Is.
----- 17m				
142930	-2	-0.1	545	~ IOBYR 3G0YA -08
142930	-1	-0.1	485	~ OV1PH 3G0YA -06
142930	-2	-0.1	605	~ N5GG 3G0YA +18
----- 17m				
143000	-1	-0.1	544	~ IOBYR RR73; KALQBO <3G0YA> +02
143000	1	-0.1	484	~ OV1PH 3G0YA -06
143000	0	-0.1	605	~ N5GG RR73; F4HRU <3G0YA> -12

Rx Frequency

UTC	dB	DT	Freq	Message
142900	-1	0.1	545	~ DF9PG 3G0YA RR73 Easter Is.
142915	Tx		1100	~ 3G0YA N5GG EM13
142930	-2	-0.1	545	~ IOBYR 3G0YA -08
142930	-2	-0.1	605	~ N5GG 3G0YA +18
142945	Tx		605	~ 3G0YA N5GG R-02
143000	-1	-0.1	544	~ IOBYR RR73; KALQBO <3G0YA> +02
143000	0	-0.1	605	~ N5GG RR73; F4HRU <3G0YA> -12

Log Search

This form allows you to check if you are "in the log". It only works for registered C

Log to search:

94,256 QSOs logged between 2024-04-18 16:18Z and 2024-04-28 14:30Z

Callsign to check:

Show contacts

Band	CW	FT8
40	1	1
20	1	1
17	1	1
15	1	2
12	1	1
10	1	1

Note: 3G0YA is also using the Club Log expedition charts

WSJT-X - Wide Graph

Controls 500 1000 1500 2000 2500 3000

Log QSO Stop Monitor Erase Decode

17m 18.095 000

H DX Call DX Grid

FT8 3G0YA

FT4

MSK

Q65

JT65

2024 Apr 28 14:30:34

Receiving N5GG FT-DX10 FT8 Last Tx: 3G0YA N5GG R-02 0

Tx even/ist Tx 605 Hz

Rx 545 Hz

Report -2

Rx All Freqs Auto Seq

Hound

Bins/Pixel 3 Start 200 Hz Palette Adjust... Flatten Ref Spec Spec 30 %

Split 2500 Hz N Avg 5 Default Cumulative Smooth 1

And Another One

Clipperton on 160m

102100	-6	1.2	600	~	W3XY RR73; JH8JWF <TX5S> -22
102215	Tx		1200	~	TX5S N5GG EM13
102230	-3	1.2	600	~	N4PYI RR73; N5GG <TX5S> -12
102245	Tx		600	~	TX5S N5GG R-03
102300	-4	1.2	600	~	N5GG RR73; W0ELT <TX5S> -16
102330	-2	1.2	600	~	W0ELT TX5S RR73
102400	-5	1.2	600	~	W4GM TX5S -19

Examples of QSO's from FOX's perspective



FOX's view - Perfect QSO

Active RPRT 1

Reply with RPRT

RR73 – QSO OK

234330	Tx	600	@	K4UWC	VK9LAA	-13
234345	-7	-0.0	600	~	VK9LAA	K4UWC R-14
234400	Tx	600	@	K4UWC	RR73; KM4VJW <VK9LAA>	-18

FOX's view – QSO completed within the GRACE Period

Active RPRT 1

Active RPRT 2

Active RPRT 3

Grace Period 1

Station sends RPRT

RR73 – QSO OK

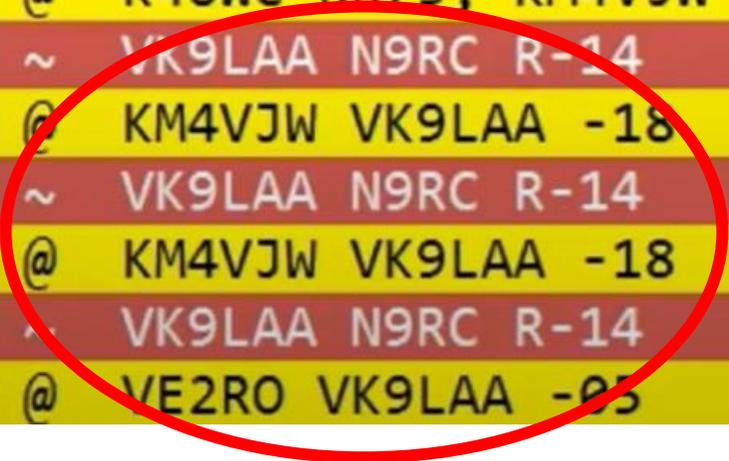
223000	Tx		600	@	NE7D	VK9LAA	-09
223030	Tx		600	@	NE7D	VK9LAA	-09
223045	-17	0.3	299	~	VK9LAA	AI9Q	R-15
223100	Tx		600	@	NE7D	VK9LAA	-09
223130	Tx		600	@	W3BNN	VK9LAA	-22
223145	-22	0.3	298	~	VK9LAA	AI9Q	R-15
223145	-14	0.2	1901	~	VK9LAA	NE7D	R+03
223200	Tx		600	@	NE7D	RR73; W3BNN <VK9LAA>	-22
223215	-9	0.3	600	~	VK9LAA	W3BNN	R-15

NE7D Reply Report received during 2-cycle Grace Period

FOX's view – FAILED QSO

	234015	-3	0.0	600	~	VK9LAA JA7DFE R+01
	234030			600	@	JA7DFE RR73; JH1NHK <VK9LAA> -01
	234100			600	@	JH1NHK VK9LAA -01
	234130			600	@	JH1NHK VK9LAA -01
Active RPRT 1	234200			600	@	N9RC VK9LAA -11
Active RPRT 2	234230			600	@	N9RC VK9LAA -11
Active RPRT 3	234300			600	@	N9RC VK9LAA -11
Grace Period 1, moved to new station				600	@	K4UWC VK9LAA -13
	234345	-7	-0.0	600	~	VK9LAA K4UWC R-14
Grace Period 2, moved to another one				600	@	K4UWC RR73; KM4VJW <VK9LAA> -18
QSO FAILS – RPRT arrives AFTER 5 cycles		-23	0.1	2456	~	VK9LAA N9RC R-14
	234430			600	@	KM4VJW VK9LAA -18
	234445	-19	0.1	2456	~	VK9LAA N9RC R-14
	234500			600	@	KM4VJW VK9LAA -18
All further N9RC reports are ignored		-5	-18	0.1	2456	VK9LAA N9RC R-14
	234530			600	@	VE2RO VK9LAA -05

N9RC VK9LAA -11
 N9RC VK9LAA -11
 N9RC VK9LAA -11



Watch the whole video on YouTube:
FT8 DXpedition mode for working Fox and Hound

<https://www.youtube.com/watch?v=Z92XWSK-ASA>



**Tips and
Tricks**

Introduction to WSJT's DXpedition Mode or “I’ve always wanted to be a Fox”

By Al Rovner, K7AR



Al Rovner K7AR

What about those
non-standard
frequencies for
FT8?



Places to dig for information

 DX-World
<https://www.dx-world.net>

[DX-World | The World's Biggest and Best DX News Service for ...](#)

WEB **DX-World** is a website that provides news, updates and bulletins about amateur radio DXpeditions and IOTA activities around the world. Find out the latest information about ...

Estimated Reading Time: 2 mins



VP9/KG9EE – Bermuda
Apr 30, 2024

Tom, KG9EE is currently active from Bermuda as VP9/KG9EE until May 16th. Running mainly 20m FT8. Logs will be uploaded to LoTW. QSL is shown.

[Read More](#)



OJ0T – Market Reef DXpedition
Apr 30, 2024

[UPDATE] - We are now QRV on 6m, and have already made a few QSOs. 4m is available upon request – let us know if you want to try! 160m dipole is deployed and will be put to use tonight. 10m and 12m to NA is a priority, we frequently check for openings. More than...

[Read More](#)



7E4M – Mendanau Island, OC-144
Apr 30, 2024

Irfan, YE4I got in touch to say that the Belitung DXpedition Team operating as 7E4M plan to be active from Mendanau Island OC-144 on September 14-16, 2024. QRV on 40-10m all modes • VHF/UHF Satellite, FM/SSTV.

[Read More](#)



J88PI – Grenadines
Apr 30, 2024

Brian GW4DVB will again be active as J88PI from Palm Island, St Vincent, NA-025 during September 12-21, 2024. QRV 40-6m; 100w, CW, SSB & FT8. QSL via Hf. Full info here.

[Read More](#)

 DX News
<https://dxnews.com>

[DX - News - HAM Radio - Amateur Radio - DX News](#)

WEB Feb 16, 2020 · **DX News** is a website for radio amateurs who are interested in DX and radiosport. It features news, articles, videos, images and a forum about upcoming and ...

Latest Articles



PZ5TW Suriname
2024-04-30 18:01:24

Ren, PY8WW will be active as PZ5TW from Suriname, 29 April - 4 May 2024.

★★★★★ 7430 2 [More...](#)



6O3T Somalia
2024-04-30 15:35:22

Looking for young radio operators for our next DXpedition!

★★★★★ 7092 2 [More...](#)

Finding those elusive DXpedition Band Plans

E6SP



E6SP NIUE - BAND PLAN APRIL 2024

	FT8		FT4
160m	1,840		
80m	3,573		
60m	5,357		
40m	7,074 7,056	F/H	7,047.5
30m	10,136 10,131	F/H	10,140
20m	14,074 14,090	F/H	14,080
17m	18,100 18,105	F/H	18,104
15m	21,074 21,095	F/H	21,140
12m	24,915 24,925	F/H	24,919
10m	28,074 28,095	F/H	28,180



Band-Plan					
All frequencies are +/- QRM					
	TT8RR			TT8XX	TT8TT
Band	CW	SSB	RTTY	FT8	QO100
6m	50.097	50.150	-----	50.313	
10m	28.030	28.470	28.085	28.091	
12m	24.890	24.950	24.925	24.911	
15m	21.030	21.310	21.085	21.091	
17m	18.068	18.130	18.105	18.095	
20m	14.030	14.240	14.084	14.084	
30m	10.115	-----	10.145	10.131	
40m	7.025	7.090	7.040	7.056	
60m	5.352	5.360	-----	5.357	
80m	3.527	3.775	-----	3.567	



Band	FT8	FT4
1.8 MHz	1.840*	1.840
3.5 MHz	3.570 and 3.573	3.570
5.3 MHz	5.357*	5.357*
7 MHz	7.079 and 7.074	7.047.5
10 MHz	10.131 and 10136	10.140
14 MHz	14.090 and 14.074	14.080
18 MHz	18.096 and 18.100	18.104
21 MHz	21.091 and 21.074	21.140
24 MHz	24.925 and 24.915	24.919
28 MHz	28.091 and 28.074	28.180
50 MHz	50.313*	50.318*

Wrapping Up!



The chaser's responsibilities in FT8 F/H mode

- You have properly enabled Hound Mode in Settings
- You have verified you can hear the Fox
- You have followed the Hound Checklist - Entered Fox Freq in Table; set Tx Freq > 1000 etc
- You understand how to initiate a second QSO if the first one was not acknowledged
- Above all - have patience. Once in the Queue it can take a couple minutes or more to receive a reply from the Fox

The DX's (Fox's) responsibilities in FT8 F/H mode

- Properly enable Fox mode
- Do not call CQ on standard FT8 freqs such as 14.074
- Move stations from Stations Calling window to the Queue
- Keep the Queue as full as possible
- Manage N Slots (streams) to maximize QSO count but be aware that the power output drops with each stream added
- Equitably work areas of the World that are calling

And sometimes you just don't get thru the QRM wall... and that's OK!
Just try again another day!



WSJT-X v2.6.1 by K1JT et al.

File Configurations View Mode Decode Save Tools Help

Band Activity					Rx Frequency				
UTC	dB	DT	Freq	Message	UTC	dB	DT	Freq	Message
130400	-12	-0.0	325	~ JE1NQQ 3D2CCC -10	130400	-12	-0.0	325	~ JE1NQQ 3D2CCC -10
130400	-11	-0.0	385	~ JA1SVP 3D2CCC RR73 Fiji	130415	Tx	1050	~ 3D2CCC N5GG EM13	
130400	-11	-0.0	265	~ JA4OTK 3D2CCC -06	130430	-14	0.0	323	~ UA6A 3D2CCC -02
130400	0.0	323	~ UA6A 3D2CCC -02	130445	Tx	1050	~ 3D2CCC N5GG EM13		
130400	0.0	264	~ JE1NQQ 3D2CCC -08	130500	-13	0.0	323	~ UA6A 3D2CCC RR73 Fiji	
130400	0.0	383	~ YL3KW 3D2CCC -11	130515	Tx	1050	~ 3D2CCC N5GG EM13		
130400	0.0	323	~ UA6A 3D2CCC RR73 Fiji	130530	-15	-0.0	323	~ F6GCP 3D2CCC -13	
130400	-0.0	384	~ YL3KW 3D2CCC RR73 Fiji	130545	Tx	1050	~ 3D2CCC N5GG EM13		
130400	-0.0	264	~ JE1NQQ 3D2CCC RR73 Fiji	130600	-15	-0.0	324	~ F6GCP 3D2CCC RR73 Fiji	
130500	-15	-0.0	323	~ F6GCP 3D2CCC -13	130615	Tx	1050	~ 3D2CCC N5GG EM13	
130530	-13	-0.0	264	~ VK3EW 3D2CCC -05					
130530	-14	-0.0	382	~ JA1MLY 3D2CCC +14					
130600	-15	-0.0	324	~ F6GCP 3D2CCC RR73 Fiji					
130600	-14	-0.0	263	~ VK3EW 3D2CCC RR73 Fiji					
130600	-15	-0.0	384	~ JA1MLY 3D2CCC RR73 Fiji					

Log QSO Stop Monitor Erase Decode Enable Tx Halt Tx Tune Menus

20m **S** 14.090 000 Tx even/1st
Tx 1050 Hz
H DX Call DX Grid
FT8 3D2CCC Rx 325 Hz
FT4 Lookup Add Report -11
MSK Q65 2024 Apr 28
JT65 JT65 13:06:33 Rx All Freqs Auto Seq **Hound**

Generate Std Msgs Next Now Pwr
3D2CCC N5GG EM13 Tx 1
3D2CCC N5GG -11 Tx 2
3D2CCC N5GG R-11 Tx 3
3D2CCC N5GG RR73 Tx 4
3D2CCC N5GG 73 Tx 5
CQ PACC N5GG EM13 Tx 6

Receiving N5GG FT-DX10 FT8 Last Tx: 3D2CCC N5GG EM13 3 3/15 WD:4m

4 days later... you log it!



Rx Frequency							
UTC	dB	DT	Freq	Message			
152000	-15	2.3	327	~	CQ 3D2CCC RG78		Fiji
152016	Tx		1701	~	3D2CCC N5GG EM13		
152048	Tx		1701	~	3D2CCC N5GG EM13		
152100	-15	2.4	326	~	N5GG 3D2CCC -12		
152115	Tx		326	~	3D2CCC N5GG R-15		
152130	-13	2.3	326	~	N5GG 3D2CCC RR73		Fiji
152200	-13	2.3	326	~	KD6UY 3D2CCC -15		
152230	-14	2.3	327	~	KD6UY 3D2CCC RR73		Fiji
152300	-14	2.3	326	~	CQ 3D2CCC RG78		Fiji
152330	-15	2.3	326	~	CQ 3D2CCC RG78		Fiji



Tips and Tricks

Rx Frequency		Message
		KB6ZA AI4UC -20
		CQ N7TTA DM42 U.S.A.
		CQ N7TTA DM42 U.S.A.
		KB6ZA AI4UC RR73 U.S.A.
		JA8TSN BX2AMC RR73 Taiwan
		BX2AMC N5GG EM13
		BX2AMC N5GG EM13
		BX2AMC N5GG EM13
		CQ FK8HM RG37 New Caledonia
		FK8HM N5GG EM13
		N5GG FK8HM -15
		CQ KM6TFY DM05 U.S.A.
		FK8HM N5GG R-09
		N5GG FK8HM RR73 New Caledonia
		FK8HM N5GG 73
		CQ FK8HM RG37 New Caledonia

Rx Frequency		Message
		IK8TMF PU0FDN RR73 Fernando de Noronha
		PU0FDN N5GG EM13
		PU0FDN N5GG EM13
		PU0FDN N5GG EM13
		PU0FDN N5GG EM13
		PU0FDN N5GG EM13
		CQ YV5DRN FK60 Venezuela
		YV5DRN N5GG EM13
		N5GG YV5DRN -20
		YV5DRN N5GG R-04
		N5GG YV5DRN -20
		YV5DRN N5GG R-04
		N5GG YV5DRN RR73 Venezuela
		YV5DRN N5GG 73

Sometimes you have to be smart...
One not answering? Work another one...

73 de N5GG

dah dah dit dit dit
dit dit dit dah dah

