

FT8 orientering fra en nystartet radioamatør

WSJT-X v2.0.0-rc2 by K1JT

File Configurations View Mode Decode Save Tools Help

Band Activity

UTC	dB	DT	Freq	Message
224030	-17	1.0	495 ~	A45XR G4HVO IO91
224030	-16	1.1	583 ~	CQ YT1TX KN04 Serbia
224030	-24	1.0	820 ~	EA8KG OZ1DSD RR73
224030	-16	1.1	1005 ~	TA2LP PA0DOM JO22
224030	-24	1.0	1179 ~	SQ2MTG 2W1ADO IO81
224030	-15	1.0	1301 ~	CQ OZ3K JO45 Denmark
224030	-4	1.0	2251 ~	M6OIZ G7JWY RRR
224030	-16	1.1	633 ~	5P6MJ ES4RLH KO39
224100	-24	1.3	1367 ~	DL3MB XP3A R-10
224100	-19	1.1	583 ~	CQ YT1TX KN04 Serbia
224100	-23	1.1	760 ~	5P6MJ ES4RLH KO39
224100	-14	1.5	1005 ~	TA2LP PA0DOM JO22
224100	-15	1.0	1300 ~	CT1BWU OZ3K -02
224100	-11	1.1	2251 ~	M6OIZ G7JWY RRR
224130	-14	1.3	760 ~	5P6MJ ES4RLH R-13
224130	-12	1.0	444 ~	DL3MB SP2EWQ +09
224130	-15	1.0	489 ~	A45XR G4HVO IO91
224130	-21	1.1	583 ~	CQ YT1TX KN04 Serbia
224130	-24	1.0	821 ~	TA2LP OZ1DSD RR73
224130	-21	1.1	967 ~	DO9JF 2W1ADO IO81
224130	-16	1.0	1300 ~	CT1BWU OZ3K RR73
224130	-24	1.0	1367 ~	DL3MB XP3A 73
224130	-16	1.1	2016 ~	CQ EI4DQ IO51 Ireland
224130	-16	1.0	2251 ~	M6OIZ G7JWY RRR

Rx Frequency

UTC	dB	DT	Freq	Message
223445	-22	1.0	1179 ~	CQ SQ2MTG JO94 Poland
223500	-24	1.0	1179 ~	SQ2MTG PC2F JO22
223515	-24	1.0	1179 ~	CQ SQ2MTG JO94 Poland
223530	-24	1.0	1179 ~	SQ2MTG PC2F JO22
223545	-19	1.0	1179 ~	CQ SQ2MTG JO94 Poland
223645	-21	1.0	1178 ~	M6OIZ SQ2MTG RRR
223715	-19	1.0	1179 ~	M6OIZ SQ2MTG RRR
223730	-20	1.0	1370 ~	CQ XP3A GP44 Greenland
223749	Tx		2284 ~	XP3A 5P6MJ JO54
223815	Tx		2284 ~	XP3A 5P6MJ JO54
223830	-20	1.1	1367 ~	IK2WZV XP3A RRR
223845	Tx		2284 ~	XP3A 5P6MJ JO54
223900	-22	1.4	1368 ~	IK2WZV XP3A RRR
223930	-24	1.0	1367 ~	IK2WZV XP3A RRR
223945	Tx		2187 ~	XP3A 5P6MJ JO54
224000	-21	1.3	1367 ~	IK2WZV XP3A RRR
224000	-18	1.3	637 ~	5P6MJ ES4RLH KO39
224015	Tx		2187 ~	XP3A 5P6MJ JO54
224030	-24	1.0	1367 ~	IK2WZV XP3A 73
224030	-16	1.1	633 ~	5P6MJ ES4RLH KO39
224050	Tx		2187 ~	XP3A 5P6MJ JO54
224054	Tx		2187 ~	ES4RLH 5P6MJ -16
224100	-24	1.3	1367 ~	DL3MB XP3A R-10
224100	-23	1.1	760 ~	5P6MJ ES4RLH KO39
224115	Tx		2187 ~	ES4RLH 5P6MJ -23
224130	-14	1.3	760 ~	5P6MJ ES4RLH R-13
224145	Tx		2187 ~	ES4RLH 5P6MJ RR73

☐ CQ only ☐ Log QSO ☒ Menus

80m ☒ 3.573 000 ☐ Tx even/1st

☒ Hold Tx Freq

☒ Auto Seq ☒ Call 1st

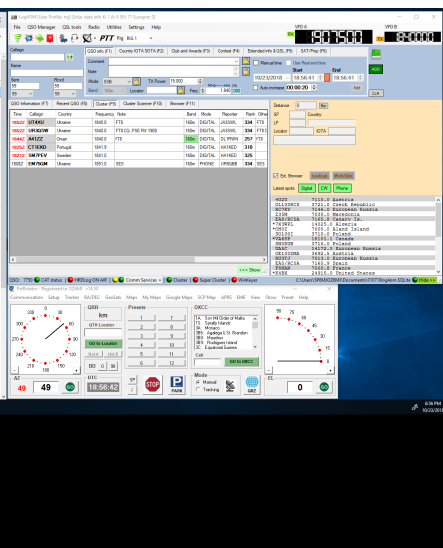
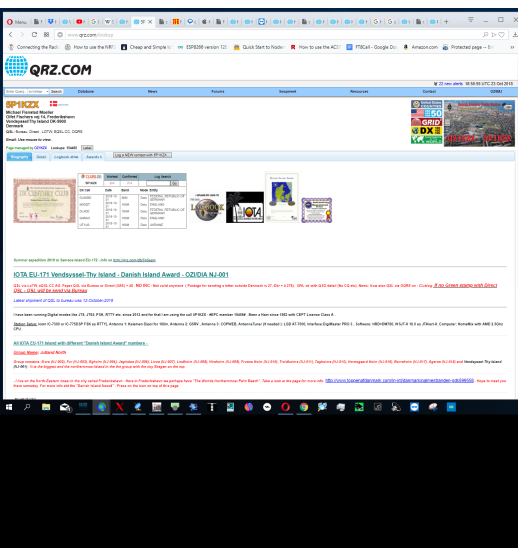
2018 Oct 17 22:42:00

☒ Gen msg

☐ Free msg

Receiving FT8 Last Tx: ES4RLH 5P6MJ RR73 0/15 WD:5m

Tranekær den 17 oktober 2018 [OZ6MJ/5P6MJ](#)



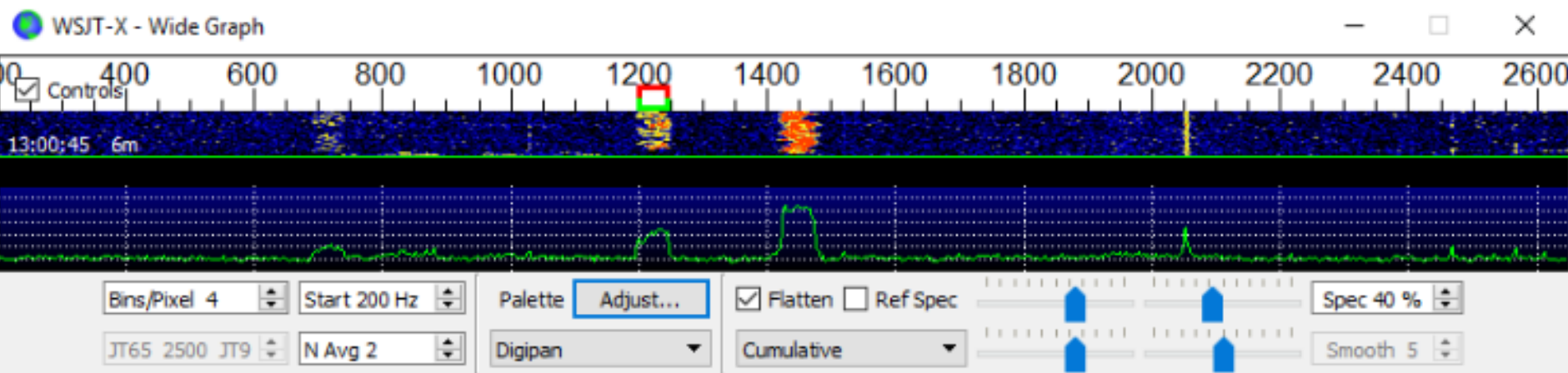
Oversigt:

- Eksempel på en FT8 QSO
- Den daglige QSO
- FT8 Historie
- Important characteristics of FT8
- Hints
- PSK reporter
- Links
- ICOM 7300
- End

Eksempel på en FT8 QSO

"CQ M6PSK JO01"	CQ call from M6PSK
"M6PSK G0QQQ IO81"	G0QQQ replies with their location
"G0QQQ M6PSK -12"	M6PSK responds with a signal report
"M6PSK G0QQQ R-08"	G0QQQ confirms signal report & replies with his own report
"G0QQQ M6PSK RRR"	M6PSK says Reception Report Received
"M6PSK G0QQQ 73"	G0QQQ says Best regards
"G0QQQ M6PSK 73"	M6PSK says Best regards

Signal reports are specified as signal-to-noise ratio (S/N) in dB, using a standard reference noise bandwidth of 2500 Hz. Thus, in the example message above, G0QQQ is telling M6PSK that his signal is 12 dB below the noise power in bandwidth 2500 Hz.



Den daglige QSO

Rx Frequency					
UTC	dB	DT	Freq	Message	
222945	-12	1.1	1178 ~	CQ PA0DOM JO22	Netherlands
223004	Tx		2284 ~	PA0DOM 5P6MJ JO54	
223015	-17	1.2	1177 ~	5P6MJ PA0DOM -07	
223030	Tx		2284 ~	PA0DOM 5P6MJ R-17	
223045	-17	1.1	1177 ~	5P6MJ PA0DOM RR73	
223100	Tx		2284 ~	PA0DOM 5P6MJ 73	
223145	-14	1.1	1177 ~	CQ PA0DOM JO22	Netherlands

Hver linie har 15 sekunders transmissionstid

JTAlertX 2.12.6 5P6MJ [~,80m,LOG4,#1] (Updates!) | Alerts | Settings | View | Sound ON | ? |

160 80 60 40 30 20 17 15 12 10 6

SQ2MTG	A45XR - B4	PA0DOM - B4	DO9JF	CT1BWU	IK2WZV	DO1OJ	SP2V	ON6AT
Poland	Oman	Netherlands	F.R. Germany	Portugal	Italy	F.R. Germany	Poland	Belgium
DG1AS								
F.R. Germany								

PA0DOM Christina Gp JO22ga

QSO B4 Name QTH Grid Comments PWR Time Country Name State CQ ITU Cont. QSL

JT65 Band : 160 80 60 40 30 20 17 15 12 10 6 2 # : FT8 Band : 160 80 60 40 30 20 17 15 12 10 6 2 # : ✓ Wrk

Callsign : 0 : Callsign : ✓ 1 : ✓ Cfm

DXCC : ✓ ✓ ✓ ✓ 5 : DXCC : ✓ ✓ ✓ ✓ ✓ ✓ 42 :

US State : 0 : US State : 0 :

Den daglige QSO (med PAoDOM)



Den daglige QSO

Band Activity					
UTC	dB	DT	Freq	Message	
223300	-23	1.1	583	~	LB8MG YT1TX R-09
223300	-8	1.0	2251	~	OK2HFC G7JWY -17
223300	-3	1.0	2323	~	PA0DOM DL1GME -10
----- 80m					
223315	-18	1.1	503	~	CQ A45XR LL93 Oman
223315	-19	1.4	904	~	CT3MD TA2LP KN40
223315	-20	1.0	966	~	CQ DO9JF JN39 Germany
223315	-17	0.3	1042	~	CU3AT EA5EY R-13
223315	-20	1.5	1118	~	XP3A IK2WZV JN45
223315	-10	1.1	1628	~	XP3A M6OIZ R-12
223315	-15	1.0	1805	~	CQ ON6AT JO10 Belgium
223315	-1	1.0	1952	~	D44TWO SP2V JO94
223315	0	1.0	2097	~	XP3A DG1AS JO53
223315	-10	1.5	2251	~	G7JWY OK2HFC R-18
223315	-6	1.0	2322	~	DL1GME PA0DOM R-02
223315	-24	-0.2	1077	~	E79EA EA8KG IL18
----- 80m					
223330	-21	1.6	1513	~	CQ IU1GLI JN34 Italy
223330	-3	1.0	2250	~	OK2HFC G7JWY -17
223330	-4	1.0	2322	~	PA0DOM DL1GME RRR
----- 80m					
223345	-12	0.9	1368	~	DL4GAG DO1OJ +06
223345	-9	1.1	1628	~	XP3A M6OIZ 73
223345	-4	1.0	1952	~	D44TWO SP2V JO94
223345	2	1.0	2097	~	XP3A DG1AS JO53
223345	-11	1.5	2251	~	G7JWY OK2HFC R-18
223345	-11	1.6	2323	~	DL1GME PA0DOM 73

Historie

Joe Taylor, K1JT

Stan Frankie, K9AN

Bill Somerville, G4WJS

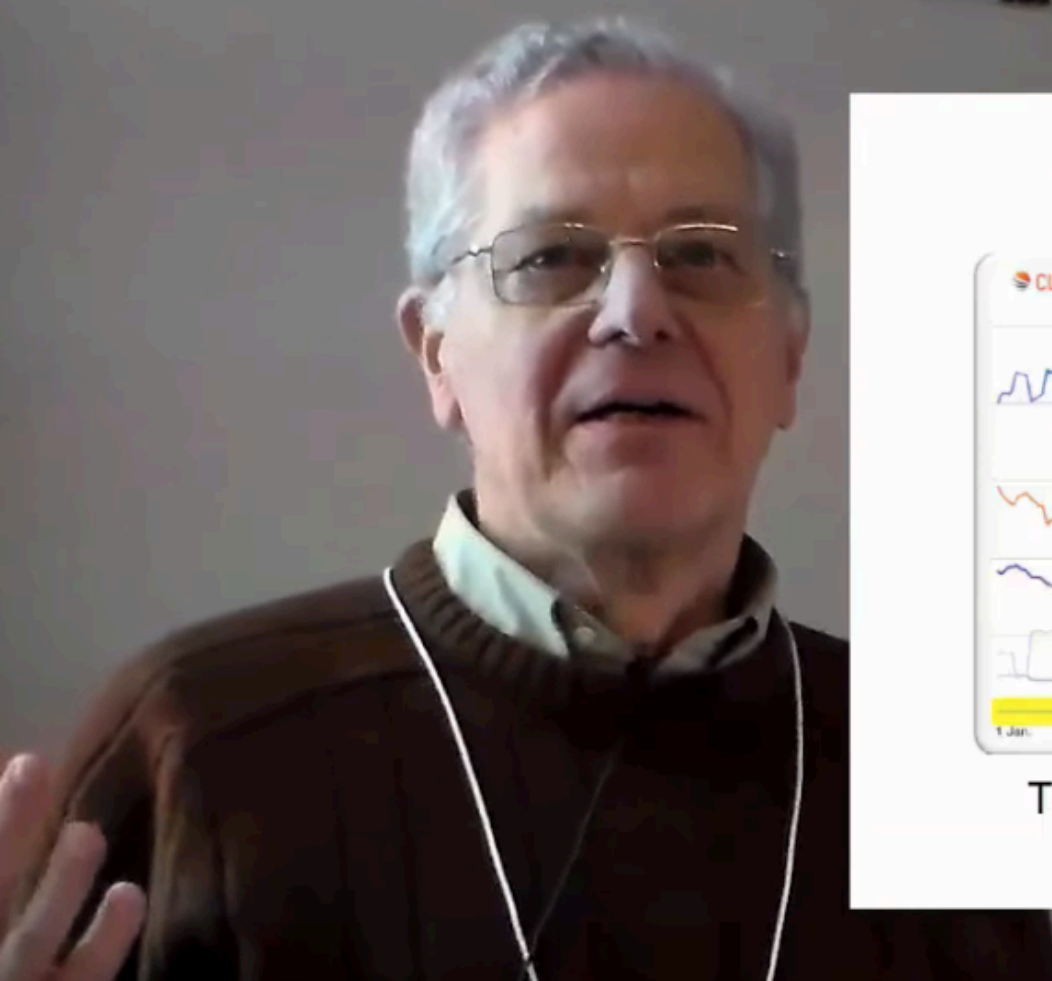
Developed a new mode for WSJT-X

FT8 (Frankie-Taylor design, 8 FSK modulation)

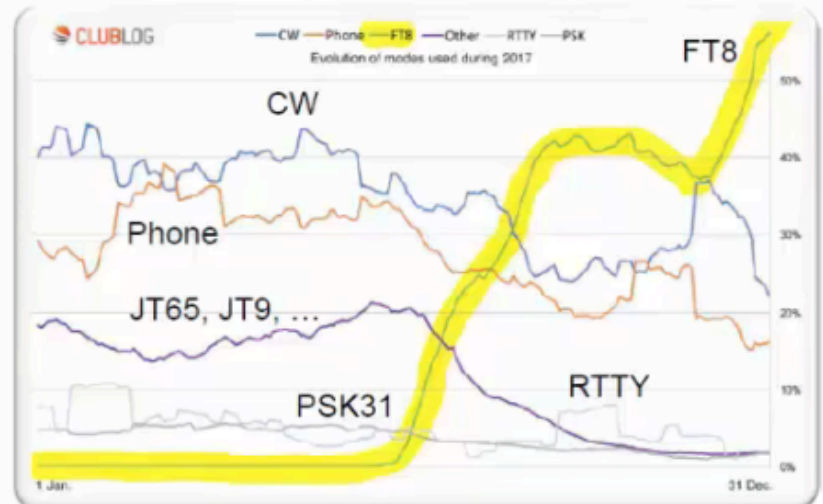
Released on June 29, 2017

Callsign	Station Callsign	QSO date ▲	Start time	Band	Mode	Country	RST sent	RST rcvd
RW9AD	5P6MJ	7/11/2017	14:12:00	40m	JT65	Asiatic Russia	-12	-18
WB8WOB	5P6MJ	7/11/2017	23:12:00	20m	JT9	United States	-15	-16
VE9DX	5P6MJ	7/12/2017	23:17:00	20m	FT8	Canada	-02	-13
KM4MDT	5P6MJ	7/12/2017	23:57:00	30m	FT8	United States	-07	-05
EI9HQ	5P6MJ	7/12/2017	14:09:00	20m	FT8	Ireland	+01	-08
KC2WUF	5P6MJ	7/12/2017	23:51:00	30m	FT8	United States	-06	-16
SV3CIX	5P6MJ	7/12/2017	14:54:00	20m	FT8	Greece	-12	-11
ON7NQ	5P6MJ	7/12/2017	23:54:00	30m	FT8	Belgium	-14	-07
VA3FU	5P6MJ	7/13/2017	00:00:00	30m	FT8	Canada	-07	-17
YO5BRZ	5P6MJ	7/13/2017	14:39:00	30m	FT8	Romania	+01	+06
KA0JZV	5P6MJ	7/13/2017	23:15:00	20m	FT8	United States	+04	-07
ON5DC	5P6MJ	7/13/2017	14:43:00	30m	FT8	Belgium	-03	-11
GW0TKX	5P6MJ	7/13/2017	10:14:00	20m	FT8	Wales	+06	-06
EI7HDB	5P6MJ	7/13/2017	10:22:00	20m	FT8	Ireland	+12	+08
F1MWV	5P6MJ	7/14/2017	08:51:00	30m	FT8	France	+00	-10
W4KBX	5P6MJ	7/14/2017	23:51:00	20m	JT65	United States	-03	-07
OH2FGV	5P6MJ	7/14/2017	14:32:00	20m	FT8	Finland	+11	-04
K2TE	5P6MJ	7/14/2017	23:57:00	20m	JT65	United States	-07	-17
OH8ENQ	5P6MJ	7/14/2017	23:26:00	40m	FT8	Finland	-01	+03
CO8LY	5P6MJ	7/14/2017	23:25:00	40m	FT8	Cuba	-02	-10
YO7CVL	5P6MJ	7/14/2017	09:02:00	15m	FT8	Romania	+01	-11
YO8SEP	5P6MJ	7/14/2017	08:58:00	15m	FT8	Romania	+05	-08
KU0D	5P6MJ	7/14/2017	23:39:00	20m	JT65	United States	-10	-07
VA3RLC	5P6MJ	7/15/2017	00:05:00	20m	JT9	Canada	-08	-03
EA3VM	5P6MJ	7/15/2017	10:29:00	15m	JT65	Spain	-01	-11
OF4NDU	5P6MJ	7/16/2017	22:27:00	80m	FT8	Finland	-15	-05
EA1CGG	5P6MJ	7/17/2017	11:23:00	20m	FT8	Spain	-12	-11
DD5ZZ	5P6MJ	7/18/2017	08:46:00	20m	FT8	Fed. Republic of ...	-06	-08
G3PXT	5P6MJ	7/19/2017	14:01:00	17m	FT8	England	-09	-04
N1MD	5P6MJ	7/20/2017	23:16:00	20m	FT8	United States	-02	+01
W4RKC	5P6MJ	7/20/2017	23:12:00	20m	FT8	United States	-13	-07
YV5AJI	5P6MJ	7/20/2017	23:18:00	20m	FT8	Venezuela	-10	-15
N2HYG	5P6MJ	7/20/2017	22:19:00	20m	FT8	United States	+01	-07
WA1TGN	5P6MJ	7/20/2017	22:58:00	20m	FT8	United States	-06	-10

Historie



Modes used during 2017



Total QSOs: 32 M

FT8 QSOs: 5 M

Historie

Year	CW	%	FT8	%	Phone	%	RTTY	%	PSK	%	Other	%	Total
2 018	8 099 614	29.24%	11 917 795	43.02%	5 455 456	19.69%	1 548 651	5.59%	414 118	1.49%	265 665	0.96%	27 701 299
2 017	13 429 587	37.55%	5 283 601	14.77%	10 355 944	28.96%	2 745 669	7.68%	1 060 925	2.97%	2 886 046	8.07%	35 761 772
2 016	15 768 634	43.62%	0	0.00%	12 504 461	34.59%	3 465 647	9.59%	1 244 228	3.44%	3 168 097	8.76%	36 151 067
2 015	16 452 579	41.90%	0	0.00%	15 073 215	38.39%	3 808 788	9.70%	1 449 754	3.69%	2 480 468	6.32%	39 264 804
2 014	18 539 958	40.78%	0	0.00%	18 332 538	40.32%	4 602 560	10.12%	1 716 824	3.78%	2 276 676	5.01%	45 468 556

Mode statistics based on data from Club Log

DXCC Timeline

Timelines for 5P6MJ (Mads Rosell)



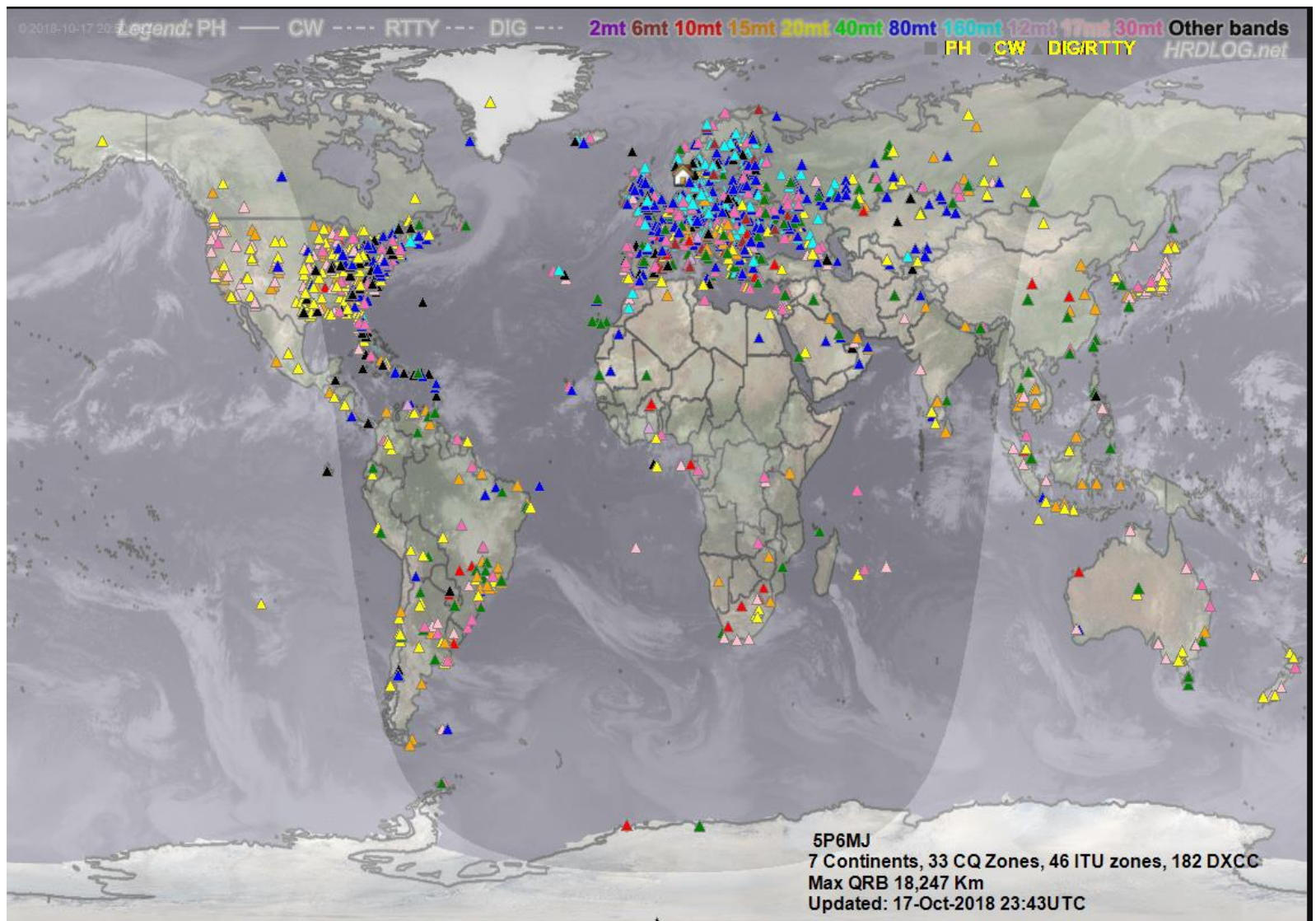
Your callsigns:

[QSOs by Year](#) [Graphs](#) [First Worked Dates](#) [Needed DXCCs](#) [Least Worked](#)

QSOs by Year

Year	Number of DXCCs	Number of QSOs	QSOs as Percent
2018	109	684	CW: 0.00% Phone: 0.00% Data: 100.00%
2017	130	1188	CW: 0.00% Phone: 0.00% Data: 100.00%
2016	92	1033	CW: 0.00% Phone: 0.00% Data: 100.00%
2015	101	1777	CW: 0.00% Phone: 0.00% Data: 100.00%
Total	171	4682	CW: 0.00% Phone: 0.00% Data: 100.00%

Historie



Important characteristics of FT8

FT8: DXing for alle

- ▶ Hvad er FT8?

- **For teknikeren:**

- En kommunikationsprotokol baseret på
 - Multi-Tone Frequency Shift Keying (MFSK)
 - Bruger 8 toner
 - 5.86 Hz adskillelse
 - Optager 47 Hz båndbredde
 - Sender i $(79 \cdot 1920 / 12000) = 13.48$ sec.

Beskrivelse <https://sourceforge.net/p/wsjt/wsjt/8021/>

- Indeholder 75 bit message + 12 bit CRC, and LDPC FEC*

*Cyclic Redundancy Check og Low Density Parity Check Forward Error Correction

Reference: QST, November 2017, page 34 *Work the World with WSJT-X, Part 2: Codes, Modes, and Cooperative Software Development*

Important characteristics of FT8

Important characteristics of FT8:

- T/R sequence length: 15 s
- Message length: 75 bits + 12-bit CRC
- FEC code: LDPC(174,87)
- Modulation: 8-FSK, keying rate = tone spacing = 5.86 Hz
- Waveform: Continuous phase, constant envelope
- Occupied bandwidth: 47 Hz
- Synchronization: three 7×7 Costas arrays (start, middle, end of Tx)
- Transmission duration: $79 \times 2048 / 12000 = 13.48$ s
- Decoding threshold: -20 dB (perhaps -24 dB with AP decoding, TBD)
- Operational behavior: similar to HF usage of JT9, JT65
- Multi-decoder: finds and decodes all FT8 signals in passband
- Auto-sequencing after manual start of QSO

“FT8 – designed specifically for propagation conditions such as multi-hop sporadic-E at 50 MHz – circumstances where signals are weak and fading, openings short, and quick completion of reliable, confirmable contacts is particularly desirable.”

“Work the World with WSJT-X, Part 2: Codes, Modes, and Cooperative Software Development”, K1JT, K9AN and G4WJS, QST November 2017

Important characteristics of FT8

Weak-Signal S/N Limits

Mode	(B = 2500 Hz)
SSB	~+10 dB
MSK144	- 8
CW, "ear-and-brain"	-15
FT8	-21
JT4	-23
JT65	-25
JT9	-27
QRA64	-27
WSPR	-31

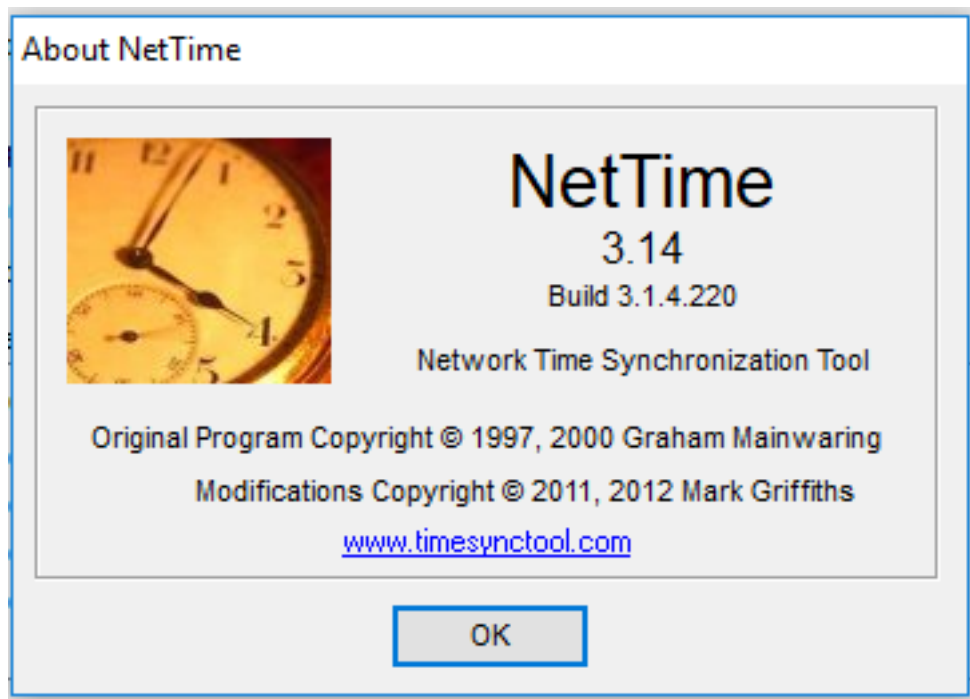
S/N (dB)	RST
≤ -19	529
-18 to -13	539
-12 to -7	549
-6 to -1	559
0 to 5	569
6 to 11	579
12 to 17	589
≥ 18	599

Hints

Synchronization

- Synchronize your PC's clock to within milliseconds of "real" time

I use the [Dimension 4](#)



[NetTime](#)

Hints

Time.is



Your time is exact!

The difference from Time.is was -0.012 seconds (± 0.029 seconds).

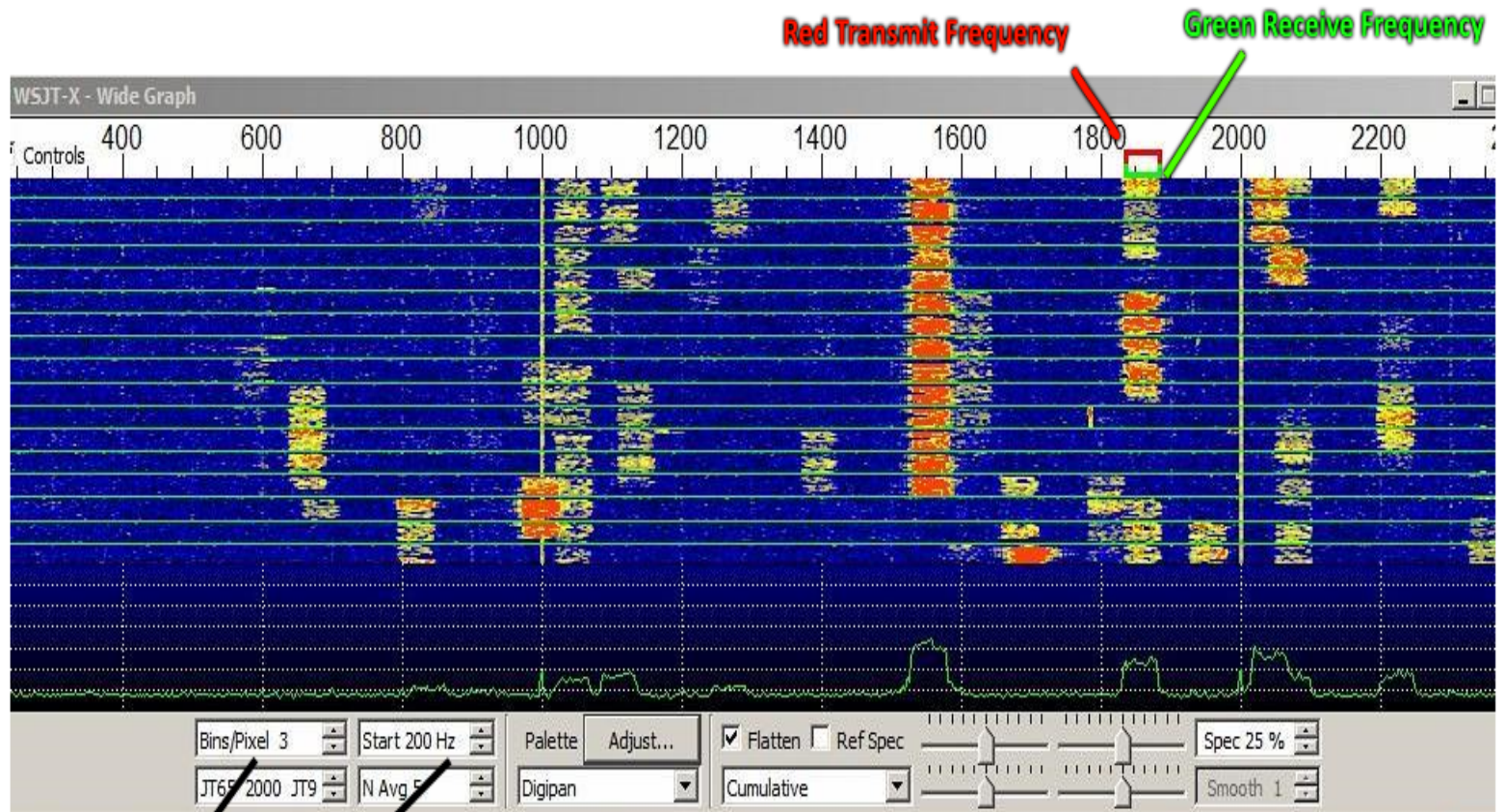
Time in Copenhagen, Denmark now:

22:52:25

Thursday, October 18, 2018, week 42

[Check your time](#)

Hints



Sets High End Frequency

Sets Start Frequency

Hints

Transmit Messages - Type 1 & 2

1 **Generate Std Msgs** Next Now

2

G4WJS K1JT FM20	☐	Tx 1
G4WJS K1JT -06	☐	Tx 2
G4WJS K1JT R-06	☐	Tx 3
G4WJS K1JT RRR	☐	Tx 4
G4WJS K1JT 73	☒	Tx 5
CQ K1JT FM20	☐	Tx 6

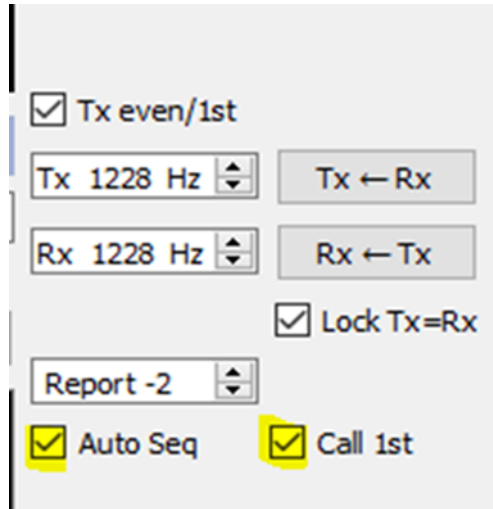
1

2

Calling CQ	Answering CQ
CQ	Grid
dB	R+dB
RRR	73
	☒ Gen msg
TNX 73 GL	☐ Free msg

Hints

Auto Sequence & Call 1st



☒ Tx even/1st

Tx 1228 Hz Tx ← Rx

Rx 1228 Hz Rx ← Tx

☒ Lock Tx=Rx

Report -2

☒ Auto Seq ☒ Call 1st

Auto Sequence – Automatically sequences thru the QSO – Signal Report, Roger & 73

Call 1st – Answers for 1st call found after a CQ – not recommended when call CQ DX

Hints

Settings ? X

General Radio Audio Tx Macros Reporting Frequencies Colors Advanced

Station Details

My Call: My Grid: ☐ AutoGrid IARU Region: All ▼

Message generation for type 2 compound callsign holders: Full call in Tx3 ▼

Display

☐ Blank line between decoding periods Font...

☐ Display distance in miles Decoded Text Font...

☐ Tx messages to Rx frequency window

☐ Show DXCC entity and worked before status

☐ Show principal prefix instead of country name

Behavior

☐ Monitor off at startup ☐ Enable VHF/UHF/Microwave 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

Tx watchdog: 6 minutes ▼

CW ID after 73 Periodic CW ID Interval: 0 ▼

OK Cancel

Hints

The screenshot shows the 'Settings' window with the 'Radio' tab selected. The 'Rig' is set to 'Yaesu FT-2000' and the 'Poll Interval' is '1 s'. The 'CAT Control' section on the left includes a 'Serial Port' dropdown set to 'COM1', a 'Serial Port Parameters' section with 'Baud Rate' at '38400', 'Data Bits' set to 'Eight', 'Stop Bits' set to 'Two', 'Handshake' set to 'Hardware', and 'Force Control Lines' with 'DTR' and 'RTS' dropdowns. The 'PTT Method' section on the right has 'VOX' selected, 'DTR' and 'RTS' unselected, and 'Port' set to 'COM3'. Below this, 'Transmit Audio Source' is set to 'Front/Mic', 'Mode' is set to 'None', and 'Split Operation' is set to 'Rig'. At the bottom right are 'Test CAT' and 'Test PTT' buttons. The 'OK' and 'Cancel' buttons are at the very bottom.

Settings

General Radio Audio Tx Macros Reporting Frequencies Colors Advanced

Rig: Yaesu FT-2000 Poll Interval: 1 s

CAT Control

Serial Port: COM1

Serial Port Parameters

Baud Rate: 38400

Data Bits

☐ Seven ☒ Eight

Stop Bits

☐ One ☒ Two

Handshake

☐ 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

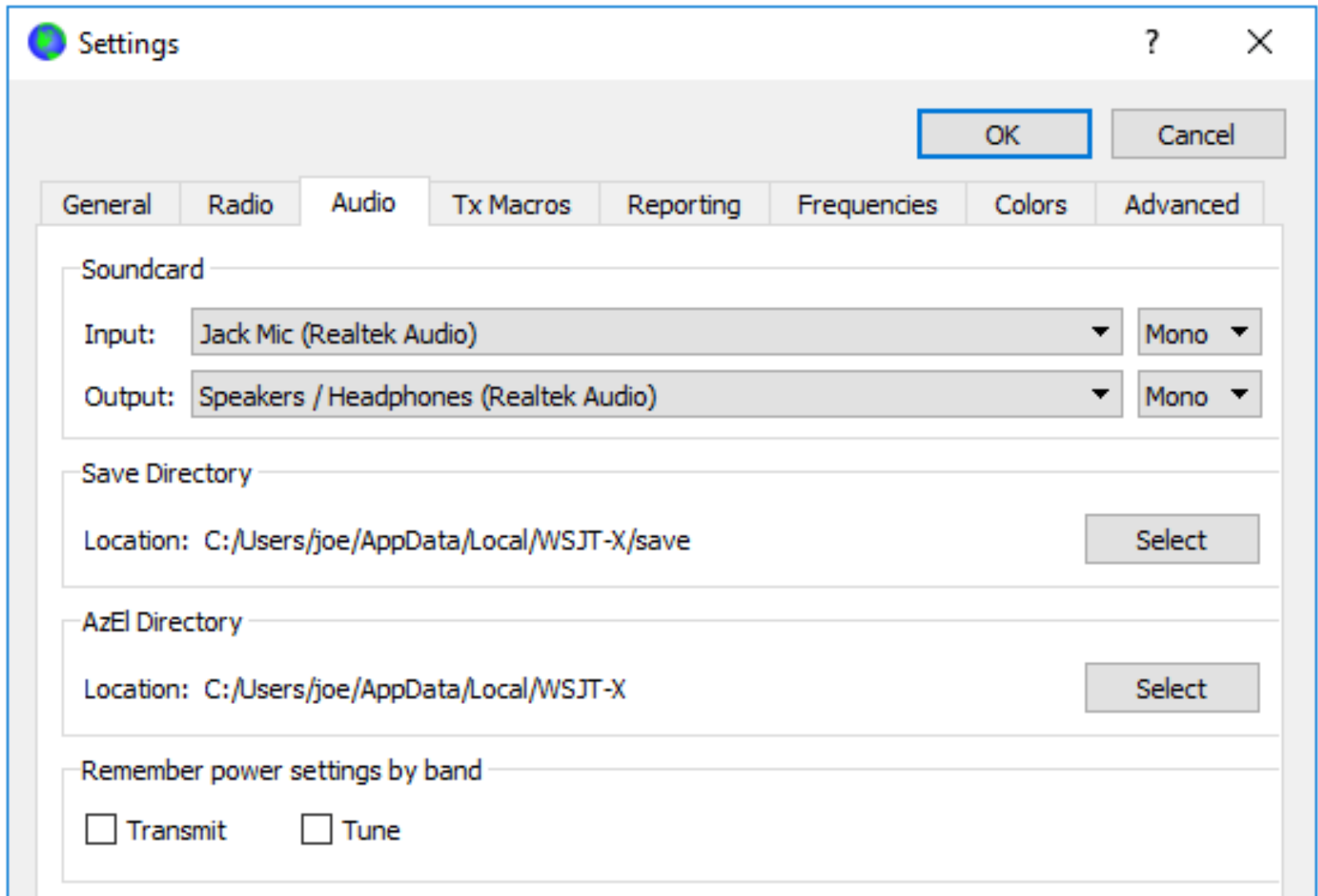
Split Operation

☐ None ☒ Rig ☐ Fake It

Test CAT Test PTT

OK Cancel

Hints



The screenshot shows the 'Settings' dialog box for WSJT-X, with the 'Audio' tab selected. The dialog has a title bar with a question mark and a close button. At the top right are 'OK' and 'Cancel' buttons. The 'Audio' tab is highlighted among other tabs: General, Radio, Audio, Tx Macros, Reporting, Frequencies, Colors, and Advanced.

Soundcard

Input: Jack Mic (Realtek Audio) ▼ Mono ▼

Output: Speakers / Headphones (Realtek Audio) ▼ Mono ▼

Save Directory

Location: C:/Users/joe/AppData/Local/WSJT-X/save Select

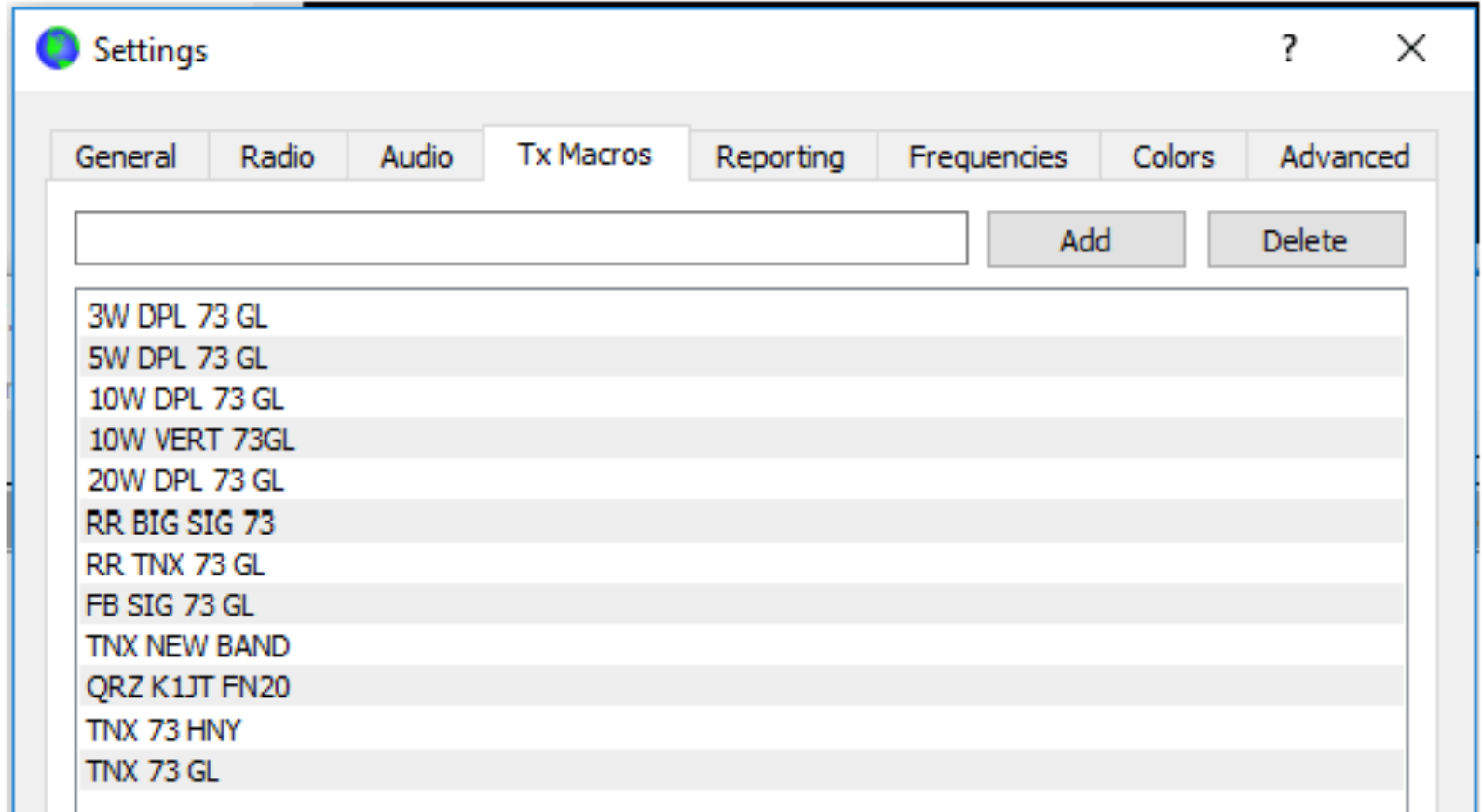
AzEl Directory

Location: C:/Users/joe/AppData/Local/WSJT-X Select

Remember power settings by band

☐ Transmit ☐ Tune

Hints



Hints

Settings ? X

General Radio Audio Tx Macros **Reporting** Frequencies Colors Advanced

Logging

☒ Prompt me to log QSO Op Call:

☐ Convert mode to RTTY

☐ dB reports to comments

☐ Clear DX call and grid after logging

Network Services

☒ Enable PSK Reporter Spotting

UDP Server

UDP Server: ☐ Accept UDP requests

UDP Server port number: ☐ Notify on accepted UDP request

☐ Accepted UDP request restores window

N1MM Logger+ Broadcasts

☒ Enable logged contact ADIF broadcast

N1MM Server name or IP address:

N1MM Server port number:

OK Cancel

Hints

Settings

General Radio Audio Tx Macros Reporting **Frequencies** Colors Advanced

Frequency Calibration

Slope: 1.2641 ppm Intercept: 2.16 Hz

Working Frequencies

IARU Region	Mode	Frequency
All	WSPR	7.038 600 MHz (40m)
All	FT8	7.074 000 MHz (40m)
All	JT65	7.076 000 MHz (40m)
All	JT9	7.078 000 MHz (40m)

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

FT8 Frequencies

Band	MHz
160M	1.840
80M	3.573
40M	7.074
30M	10.136
20M	14.074
17M	18.100
15M	21.074
12M	24.915
10M	28.074
6M	50.313

Added FT8 Frequencies

Band	MHz
60M*	5.357
2M*	144.125 & 144.165
1 ¼M*	222.065
70CM*	432.065

* Not to Frequency list - to add use "Insert"

160M 1.907 JA TX

Hints

Hello Mads,

I copy you FT8 on 1840khz but We can not work on that frequency.

I send the JPG file to you.

Please QSX(RX) 1908khz and your TX 1840khz for JA.

I am calling you on 1908khz and RX 1840khz.

The 160m frequency in Japan,
1810-1825KHz and 1907.5-1912.5KHz

DATE Sunrise (GMT) in JA3

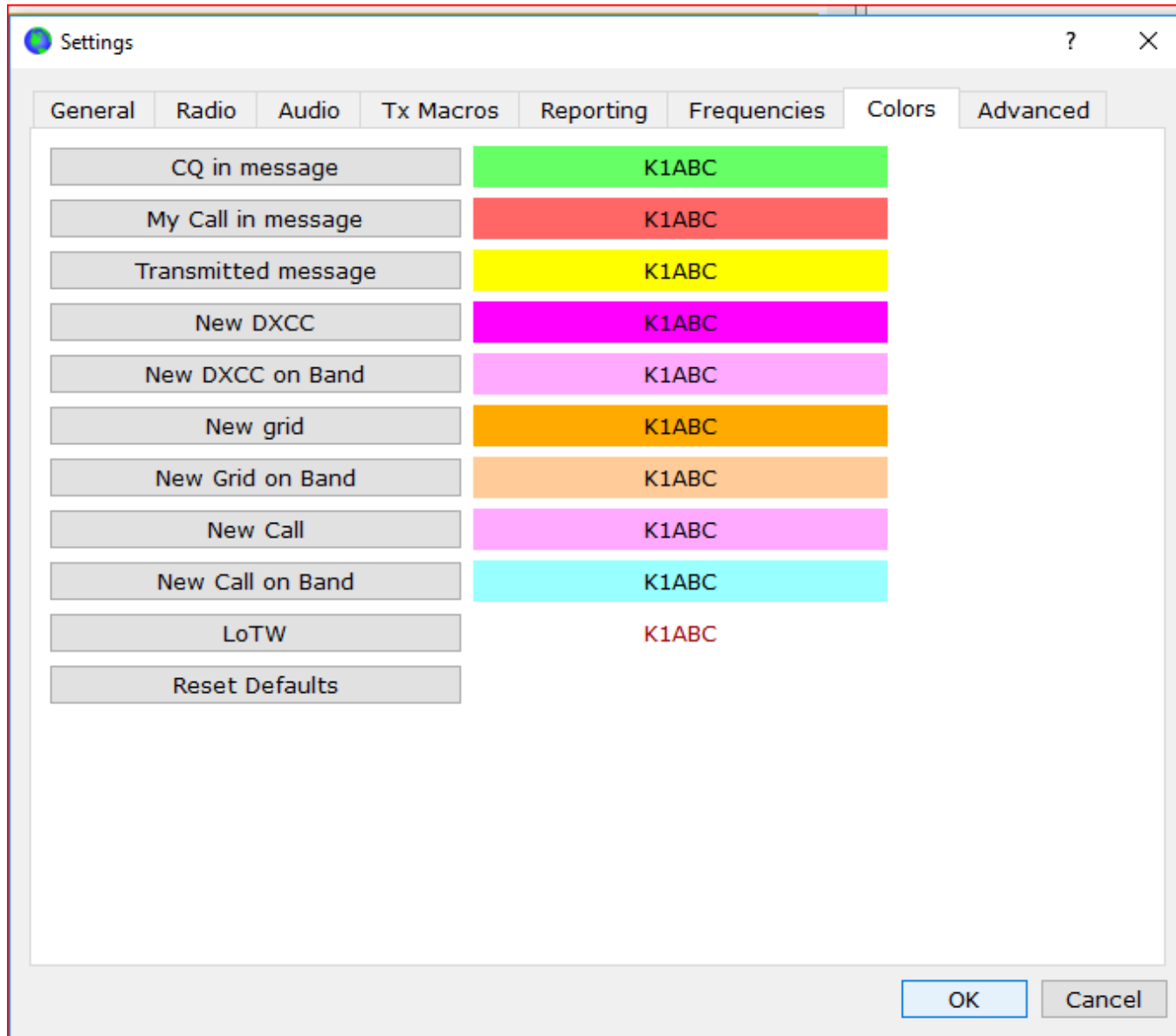
[Oct.18 21:05](#)

We hope to see you on 160m soon.

Thanks 73

Mas JA3FYC

Hints



Hints

The screenshot shows the 'Settings' window for WSJT-X 2.0, with the 'Advanced' tab selected. The window has a title bar with a question mark and a close button. The tabs are: General, Radio, Audio, Tx Macros, Reporting, Frequencies, Colors, and Advanced. The 'Advanced' tab contains several sections: 'JT65 VHF/UHF/Microwave decoding parameters' with 'Random erasure patterns' set to 7, 'Aggressive decoding level' set to 0, and 'Two-pass decoding' checked; 'Miscellaneous' with 'Degrade S/N of .wav file' set to 0.0 dB, 'Receiver bandwidth' set to 5000 Hz, 'Tx delay' set to 0.2 s, and 'Tone spacing' with 'x 2' and 'x 4' options; 'FT8 DXpedition mode' with 'Fox' and 'Hound' options; 'FT8 message types' with 'Always generate 77-bit messages' and 'Decode only 77-bit messages' options; and 'Special operating activity: Generation of FT8 and MSK144 messages' with 'None' selected, and 'NA VHF Contest', 'EU VHF Contest', 'ARRL Field Day', and 'ARRL RTTY Roundup' options, each with an 'Exch:' field.

Settings

General Radio Audio Tx Macros Reporting Frequencies Colors Advanced

JT65 VHF/UHF/Microwave decoding parameters

Random erasure patterns: 7

Aggressive decoding level: 0

☒ Two-pass decoding

Miscellaneous

Degrade S/N of .wav file: 0.0 dB

Receiver bandwidth: 5000 Hz

Tx delay: 0.2 s

Tone spacing

☐ x 2 ☐ x 4

FT8 DXpedition mode

☐ Fox ☐ Hound

FT8 message types

☐ Always generate 77-bit messages ☐ Decode only 77-bit messages

Special operating activity: Generation of FT8 and MSK144 messages

☒ None

☐ NA VHF Contest ☐ ARRL Field Day Exch:

☐ EU VHF Contest ☐ ARRL RTTY Roundup Exch:

Hints

Logs

- Log All - logs all reception and transmissions
- Log Text – Text log
- Log ADI – ADIF log (Used for LOTW & eQSL)

Note: Don't erase the ADI log, it is used to find the stations you have worked.

Support Programs

- PSK Reporter – Reverse Beacon Network
- DX Maps – DX Spotting Map
- JT Alert

Hints

Computer Audio Rig Interface

- Rig Baster – MFJ



- Tigertronics Signalink



- FlexRadio and PowerSDR uses a virtual audio connections

- USB Sound Adapters

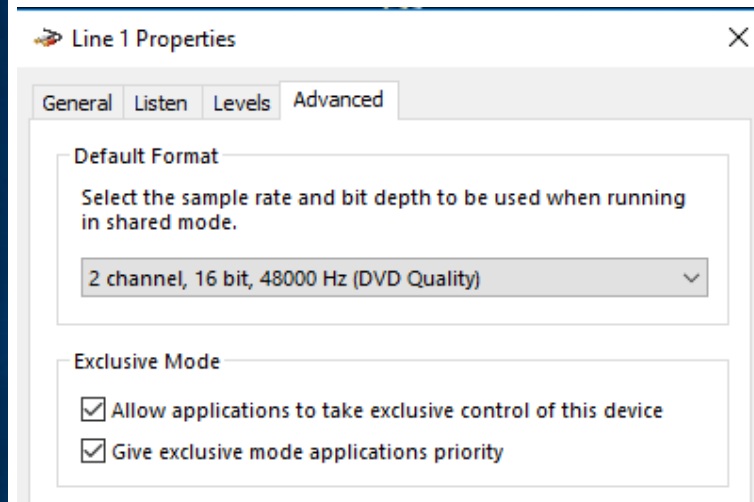
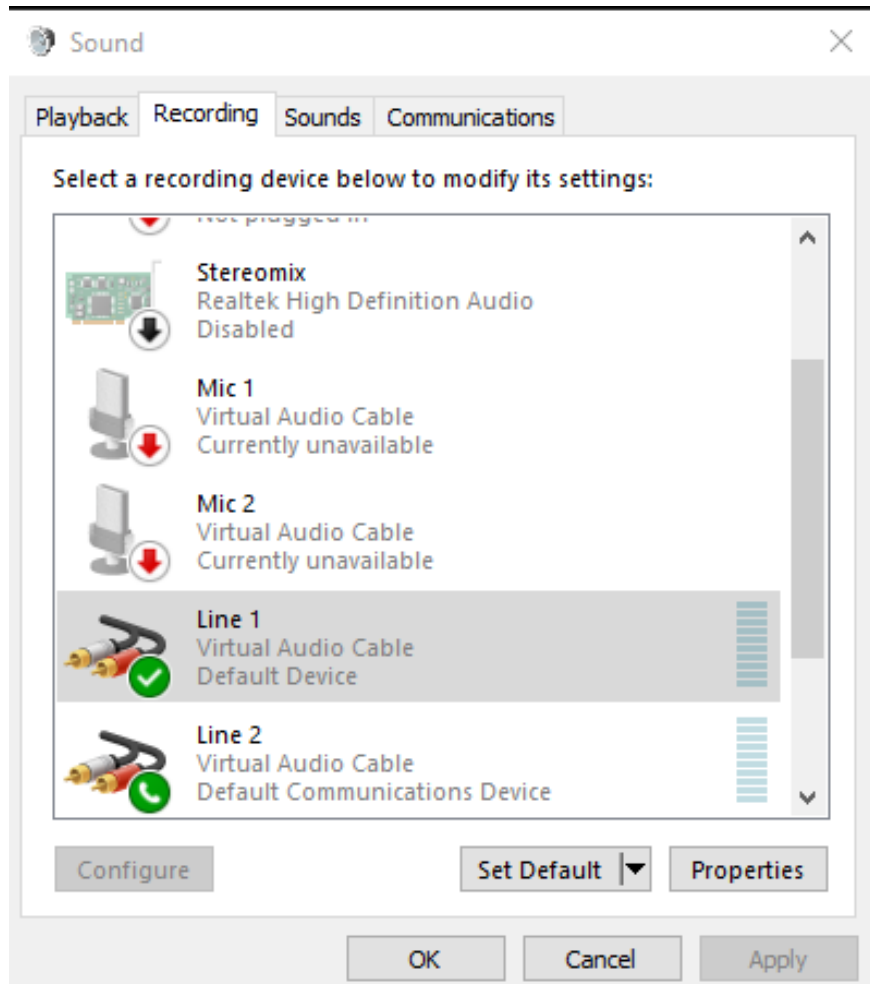


Hints

Logging Programs that support FT8

- Ham Radio Deluxe V6
- [N3FJP](#)
- [Log4HAM](#)
- [LOTW](#)
- [eQSL](#)

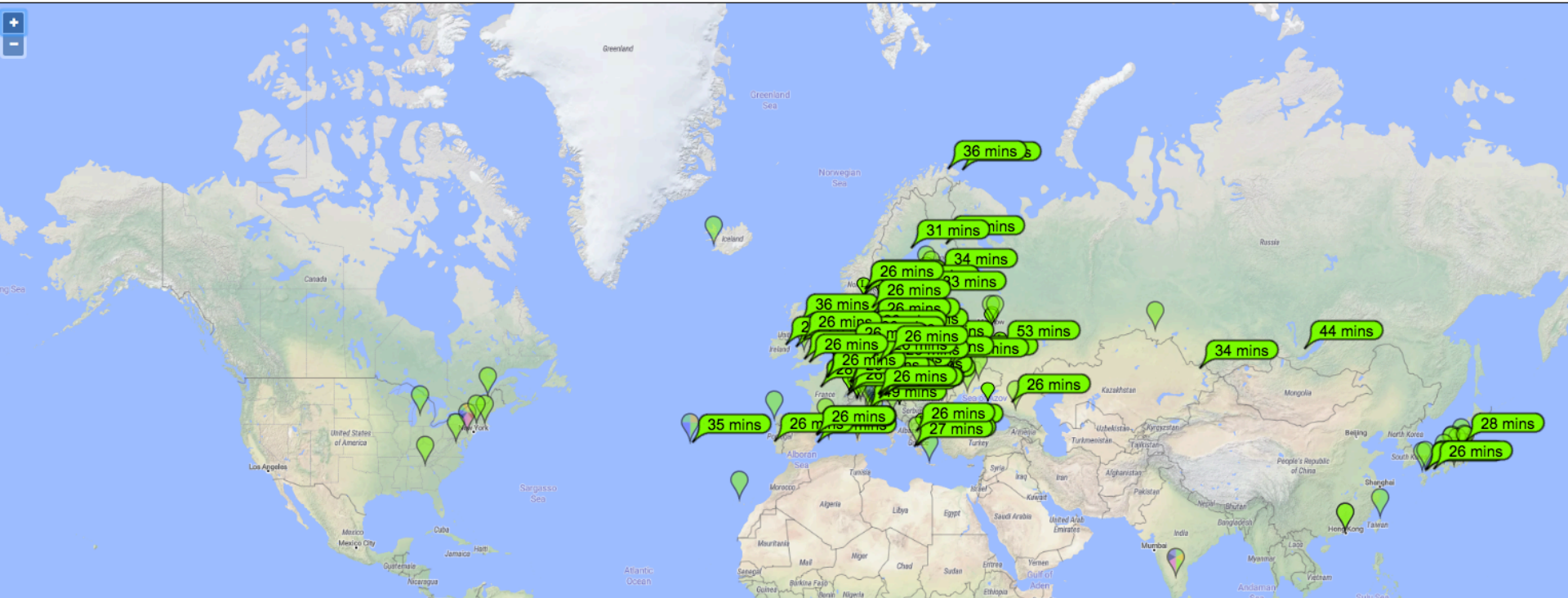
Hints



PSK Reporter

On 160m sent/rcvd by 5p6mj using FT8 [Display options](#) [Permalink](#)

Monitoring 5P6MJ (last heard 26 mins ago). Automatic refresh in 5 minutes. Small markers are the 40 transmitters ([show logbook](#)) heard ([distance chart](#)) at 5P6MJ (84 reports, 32 countries last 24 hours; 2279 reports, 68 countries last week). There are 127 active FT8 monitors on 160m. [Show all FT8 on all bands.](#) [Show all on all bands.](#) [Legend](#)



Can be setup to show the stations that are receiving you

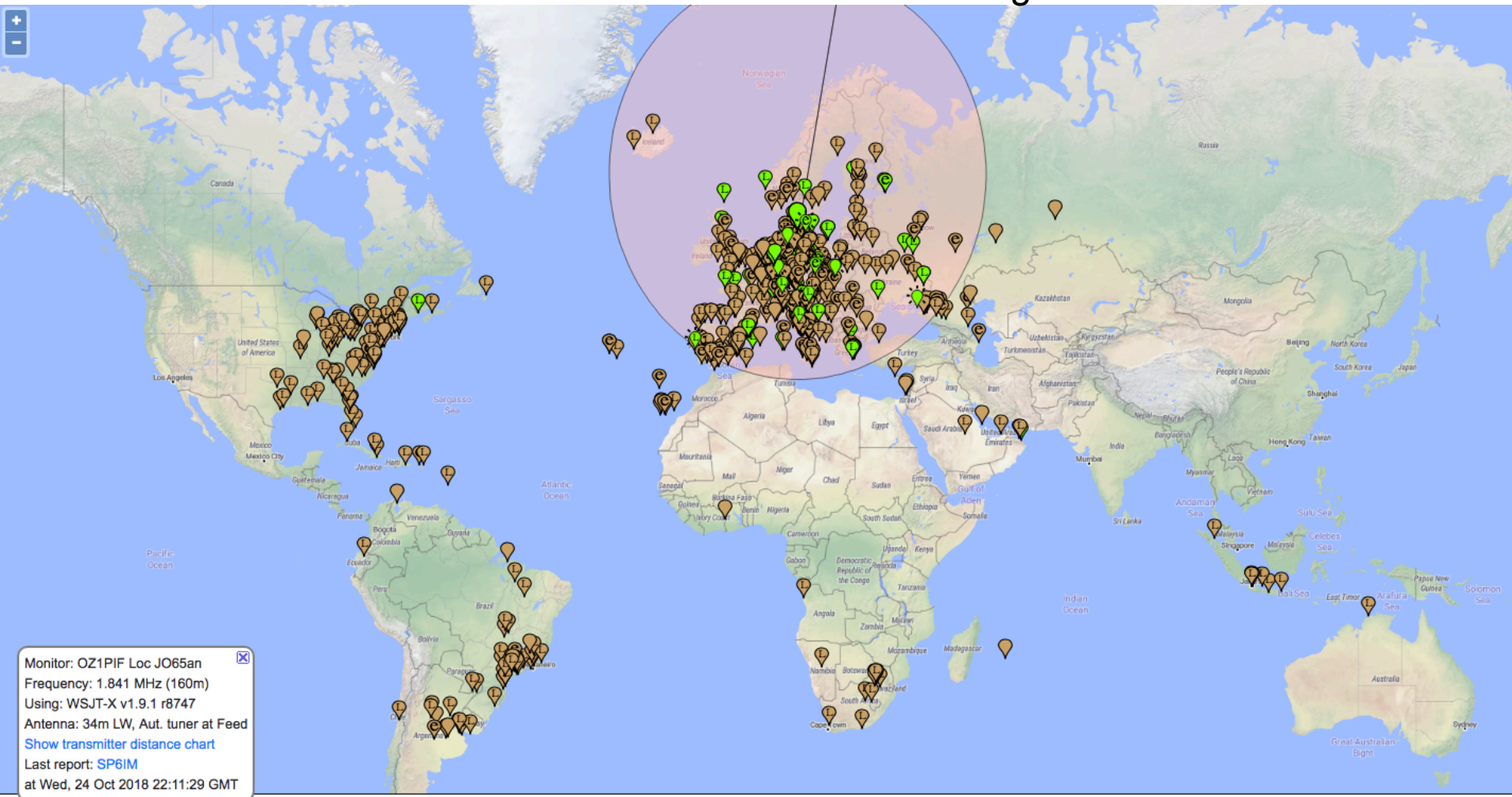
Monitor: 5P6MJ Loc JO54kx ☒
in Denmark
Receiving: FT8 on 1.842 MHz (160m)
Using: WSJT-X v2.0.0-rc2 cc148d
Antenna: Skywire 160m
[Show all seen by 5P6MJ](#)
Showing transmitters for the last 11 mins
[Show transmitter distance chart](#)

Rx at Wed, 24 Oct 2018 20:55:44
GMT
From 5P6MJ by JA5EXW Loc PM63jv
Frequency: 1.840.500 MHz (160m),
FT8, -18dB
Distance: 8692 km bearing 46°
Using: JTDX - EVIFT8 v18.1.95

PSK Reporter

On **all bands** , show **signals** rcvd by **the callsign** **OZ1PIF** using **all modes** over the last **12 hours**

Peter Frenning



OZ1PIF (664 reports, 78 countries last 24 hours; 4179 reports, 98 countries last week).

Links

[Download WSJT-X](#)

[Work the World with WSJT-X - Dr. Joe Taylor Video](#)

[Mode statistics based on data from Club Log](#)

[WSJTX documentation 1.9.1](#)

[Indianapolis Radio Club KJ9B & K9RU](#)

[Peter Frenning, OZ1PIF/Larry Gauthier, K8UT](#)

[Gary Hinson ZL2iFB](#)

[Louis K4BYN & Tom N4TL](#)

[Mads OZ6MJ/5P6MJ](#)

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[Gary Hinson ZL2iFB](#)

[Mads OZ6MJ/5P6MJ](#)

[Louis K4BYN & Tom N4TL](#)

Icom 7300

Are you looking for an easy way to try out the new WSJT-X FT8 mode?

If you have the Icom 7300 I assure you this cannot get any easier or better.

There's no need for an external sound card (Signalink) or any other hardware.

The Icom 7300 suffices.

The only thing needed is a USB cable (install the driver from Icom before connecting a USB cable) and WSJT-X.

Important: Use something for time sync. I use NetTime.

[ICOM 7300 Setup for Digital signals](#)

[ICOM 7300 and WSJT-X setup](#)

Icom 7300

CONNECTORS		1/4
ACC/USB Output Select	AF	▲
ACC/USB AF Output Level	50%	▼
ACC/USB AF SQL	OFF (Open)	↶
ACC/USB AF Beep/Speech... Output	OFF	↷

CONNECTORS		3/4
DATA MOD	USB	▲
External Keypad		▼
CI-V		↶
USB Serial Function	CI-V	↷

CI-V		1/2
CI-V Baud Rate	Auto	▲
CI-V Address	94h	▼
CI-V Transceive	OFF	↶
CI-V USB→REMOTE Transceive Address	00h	↷

CONNECTORS		2/4
ACC/USB IF Output Level	50%	▲
ACC MOD Level	50%	▼
USB MOD Level	40%	↶
DATA OFF MOD	MIC,ACC	↷

CONNECTORS		4/4
RTTY Decode Baud Rate	9600	▲
USB SEND	RTS	▼
USB Keying (CW)	DTR	↶
USB Keying (RTTY)	DTR	↷

CI-V		2/2
CI-V Output (for ANT)	OFF	▲
CI-V USB Port	Unlink from [REMOTE]	▼
CI-V USB Baud Rate	115200	↶
CI-V USB Echo Back	ON	↷

END



Evt. [Download via oz6mj.dk/FT8/FT8.pdf](http://oz6mj.dk/FT8/FT8.pdf)