

# K1JT nõrga signaali tööliigid

JT65, JT9 tööliikide ja tarkvara  
tutvustus.

# Joe Taylor, K1JT

- **Joseph Hooton Taylor Jr.** (sünd. 29 märts, 1941)
- Princetoni ülikooli füüsika (emeritiit) professor
- Astrofüüsik, Nobeli preemia laureaat 1993
- 2001 WSJT "Weak Signal/Joe Taylor,, tarkvara ja protokoll FSK441
- 2002 JT6M protokoll
- 2003 JT65 protokoll EME sitedeks
- 2013 WSJT-X ja JT9 protokoll
- 2017 FT8 protokoll

# JT65

- Algselt mõeldud EME sisedeks
- 64 tooni pluss sünkr. toon
- Saate kestus 46,8 sekundit
- Info maht 13 märki
- Saade ja vastuvõtt algavad minuti 0 sekundil
- JT65A riba  $\sim 180\text{Hz}$

# JT65, JT9

- JT65A, JT65B, JT65C

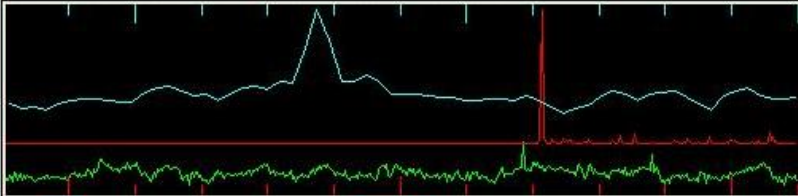


- JT9 8 tooni pluss sünkr. toon
- Saate kestus 49 sekundit
- Ribalaius  $\sim 16\text{Hz}$

# WSJT

WSJT 6 by K1JT

File Setup View Mode Decode Save Band Help



**Moon**  
 Az: 263.24  
 El: -12.46  
 Dop: -114  
 Dgrd: -1.7

-2.0 Time (s) RU1AA\_050820\_010200

FileID	Sync	dB	DT	DF	W				
005600	5	-15	2.9	215	0	*	CQ	RU1AA	KO48
005800	8	-7	2.9	215	3	#	K1JT	RU1AA	KO48
010000	10	-9		215	2		RRR		
010200	7	-8	2.7	213	3	*	TNX	JOE	-14

010200 1 3/4 K1JT RU1AA KO48 1 0

Log QSO Stop Monitor Save Decode Erase Clear Avg Include Exclude TxStop

To radio: RU1AA Lookup  
 Grid: KP40xd Add  
 Az: 33 4311 mi

2006 Aug 10  
12:22:16

Sync 1  Zap  
 Clip 0  NB  
 Tol 400  Freeze  
 Defaults  AFC  
 Dsec 0.0

Tx First RU1AA K1JT FN20 Tx1  
 Rpt 26 RU1AA K1JT FN20 OOO Tx2  
 Sh Msg R0 Tx3  
 Sked RRR Tx4  
 GenStdMsgs 73 Tx5  
 Auto is Off CQ K1JT FN20 Tx6

1.0003 0.9998 JT65B Freeze DF: 0 Rx noise: -1 dB TR Period: 60 s Receiving

# Joe Large, W6CQZ

- 2007 WSJT logist andmete edastamine Internetti
- Reverse Beacon võrgustik ja jututuba
- JT65-HF tarkvara

# JT65-HF

JT65-HF Version A20.1 [de ES2MA]

Audio Input Levels: L: 0, R: 0. Optimum input level is 0 with only background noise present. Digital Audio Gain: L: 0, R: 0.

2009-Jul-12 17:38:10

Left click waterfall to set TX CF. Right click sets RX CF. Current Operation: Receiving RX/TX Progress

Color-map: Linrad, Brightness: 3, Contrast: 3, Spectrum Speed: 1

Message To TX: ZS6Y ES2MA 73

TX Text (13 Characters): TX OFF

73 Enable TX Halt TX

TX Generated: ZS6Y ES2MA 73 TX Even TX Odd

Use buttons below to call CQ and answer callers.

Call CQ Answer Caller Send RRR Send 73

Use buttons below when answering CQ.

Answer CQ Send Report Send 73

TX DF: 20, RX DF: 20, TX DF = RX DF: checked, TX to Call Sign: ZS6Y, Rpt (-#): -13

Single Decoder Width: 50, Clip: 0, Delta Time: 0, AFC: checked, Noise Blank: unchecked

Notices/Warnings/Errors. Right click line for copy to clipboard.

Multi decoder off.

[17:36] TX: ZS6Y ES2MA 73  
[17:34] TX: ZS6Y ES2MA RRR  
[17:32] TX: ZS6Y ES2MA R-13  
[17:30] TX: ZS6Y ES2MA K029  
[17:28] TX: ZS6Y ES2MA K029

Double click an entry in list to begin a QSO. Right click copies to clipboard.

UTC	Sync	dB	DT	DF	Exchange
17:35	4	-17	1.0	13	B ES2MA ZS6Y RRR
17:33	1	-20	0.9	13	B ES2MA ZS6Y R-21
17:31	4	-19	0.9	13	B ES2MA ZS6Y -21
17:27	5	-15	1.2	13	B CQ ZS6Y KG33
17:25	9	-15	0.9	13	B ZS6WAB ZS6Y 73
17:24	15	-9	0.9	5	B ZS6Y ZS6WAB 73
17:23	6	-15	0.9	13	B ZS6WAB ZS6Y RRR
17:22	8	-9	0.7	5	B ZS6Y ZS6WAB RRR
17:21	5	-15	1.0	13	B ZS6WAB ZS6Y R-22
17:20	7	-10	0.8	5	B ZS6Y ZS6WAB -26
17:19	4	-16	0.8	13	B ZS6WAB ZS6Y KG33

Clear Decodes Raw Decoder Station Setup RB Setup/Stats

Enable RB RB Number: 10139 Dial QRG KHz: 10139 Multi Decoder Bandwidth: 700

RB Status: Offline

# JT65-HF

- Kasutajasõbralik liides
- Multidekooder
- Kellaaja korrigeerimine
- RB info edastamine
- W6CQZ lõpetas arenduse
- Mitmed eraldi edasiarendused



# WSJT-X

The image displays two windows from the WSJT-X software. The top window, titled "WSJT-X - Wide Graph", shows a waterfall plot of a radio frequency spectrum from 0 to 2200 kHz. A prominent signal is visible around 1200 kHz. The bottom window, titled "WSJT-X v1.4.0 by K1JT", is the main control interface. It features a menu bar (File, View, Mode, Decode, Save, Help) and a "Band Activity" table. The table lists several stations with their UTC, dB, DT, Freq, and Message. The current frequency is set to 14.076 MHz. The interface includes various controls for decoding, transmitting, and receiving, as well as a "Calling CQ" and "Answering CQ" section. A date and time stamp "2014 Sep 09 14:09:52" is displayed in a black box. The status bar at the bottom shows "130418\_1742.wav" and "JT9".

**Band Activity Table:**

UTC	dB	DT	Freq	Message
1742	-17	0.0	1224	@ K1JT KF4RWA 73
1742	-24	0.0	1119	@ CQ GM7GAX IO75
1742	-17	-0.0	1186	@ TF3G N7MQ CN84
1742	-21	0.1	1290	@ CQ MOWAY IO82
1742	0	-0.3	1345	@ K1JT N5KDV EM41
1742	-11	0.0	1461	@ G7CNF N4HFA EL89
1742	-4	1.2	1505	@ JA1KAU PDOJAC -23

**Current Frequency:** 14.076 000

**Date and Time:** 2014 Sep 09 14:09:52

# WSJT-X

- Uued tööliigid nagu JT9, FT8
- Parandatud dekooder
- Multidekodeerimine
- Parem kasutajaliides
- Aktiivses arenduses
- FT8 populaarsuse kiire kasv

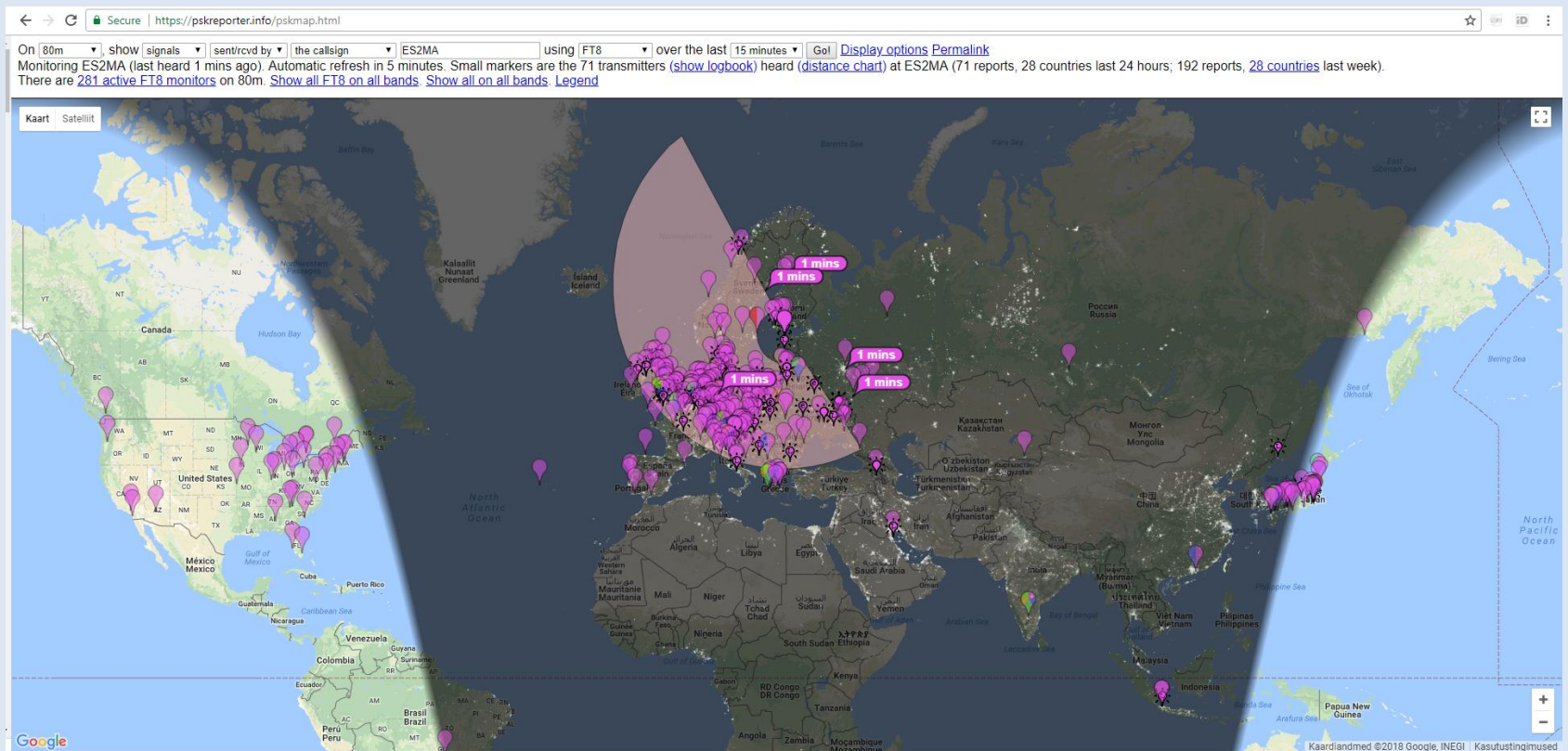
# JTDX

- WSJT-X lähtekoodil baseeruv arendus
- Parandatud dekodeer
- Muudetud kasutajaliides
- T10 tööliik
- Aktiivne arendus



# PSK-Reporter

- Eetri aktiivsuse ja leviku hindamiseks



# Kasulikud lingid

- WSJT <http://physics.princeton.edu/pulsar/k1jt/index.html>
- JTDX <https://www.jtdx.tech/>
- JTDX FB grupp <https://www.facebook.com/groups/JTDX.HF.evaluation/>
- JT65-HF variandid

<https://sourceforge.net/projects/jt65hfhb9hqxedi/>

[http://www.funkamateure-dresden-ov-s06.de/index.php?article\\_id=315](http://www.funkamateure-dresden-ov-s06.de/index.php?article_id=315)

<http://jt65-hf.com/downloads/>

- JT-Alert <http://hamapps.com/>
- Dimension4 <http://www.thinkman.com/dimension4/>
- PSKreporter <https://pskreporter.info/pskmap.html>

Head „jottimist“!

Täna tähelepanu eest!

73, Mart ES2MA