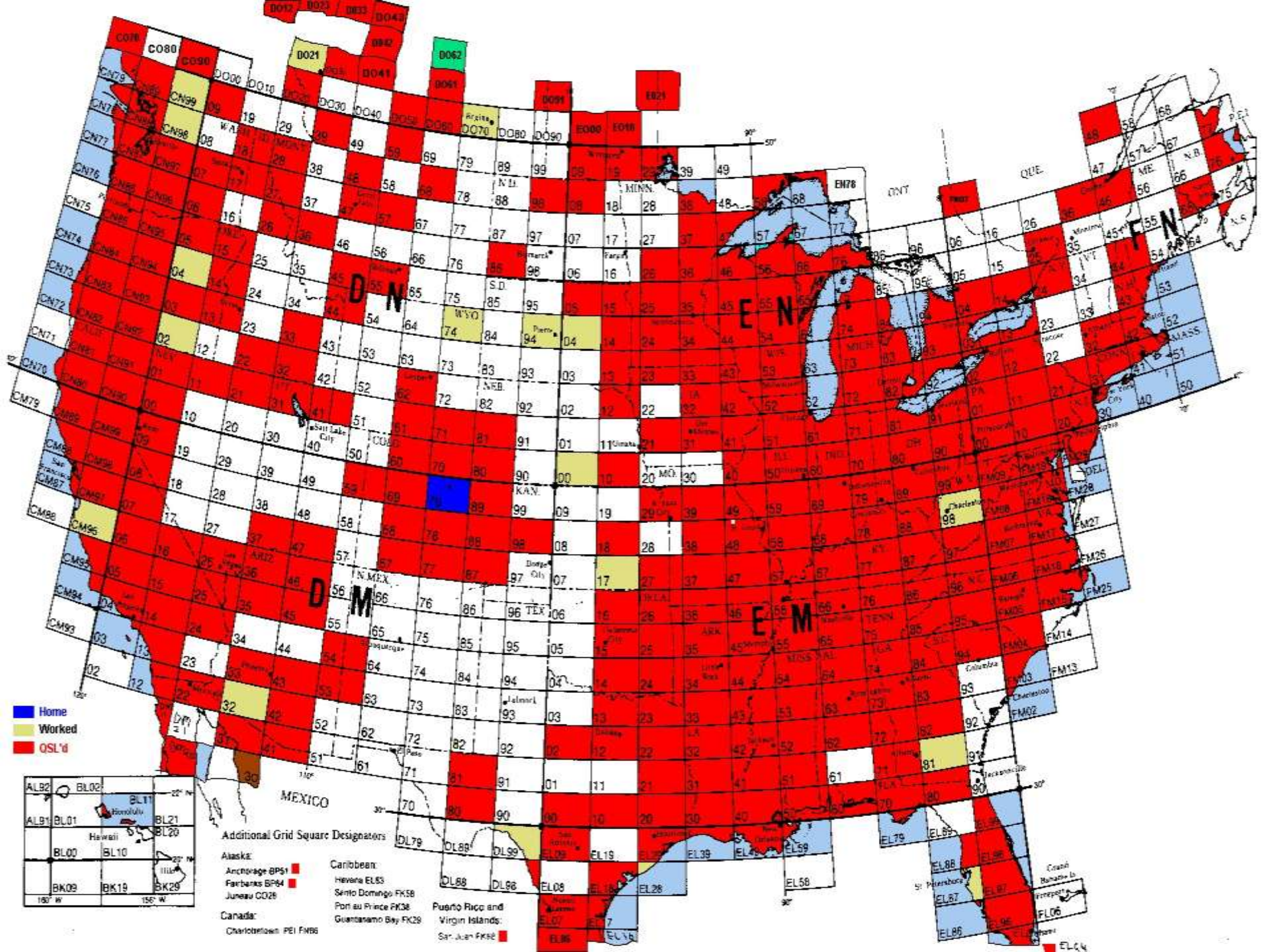
VHF Meteor Scatter DXing with Digital Modes

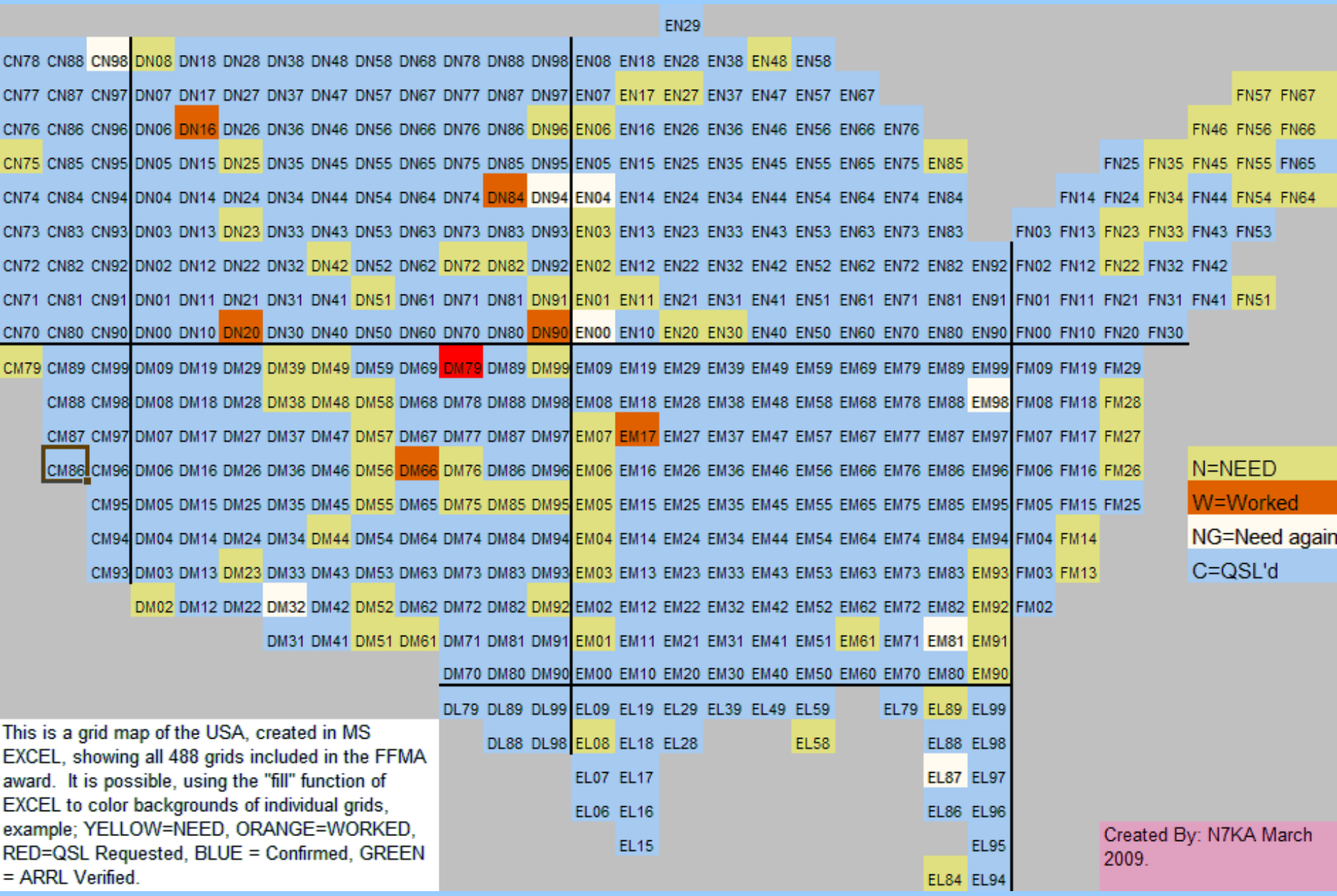
An introduction to Joe Taylor K1JT's Weak Signal Software

By Wayne Heinen N0POH



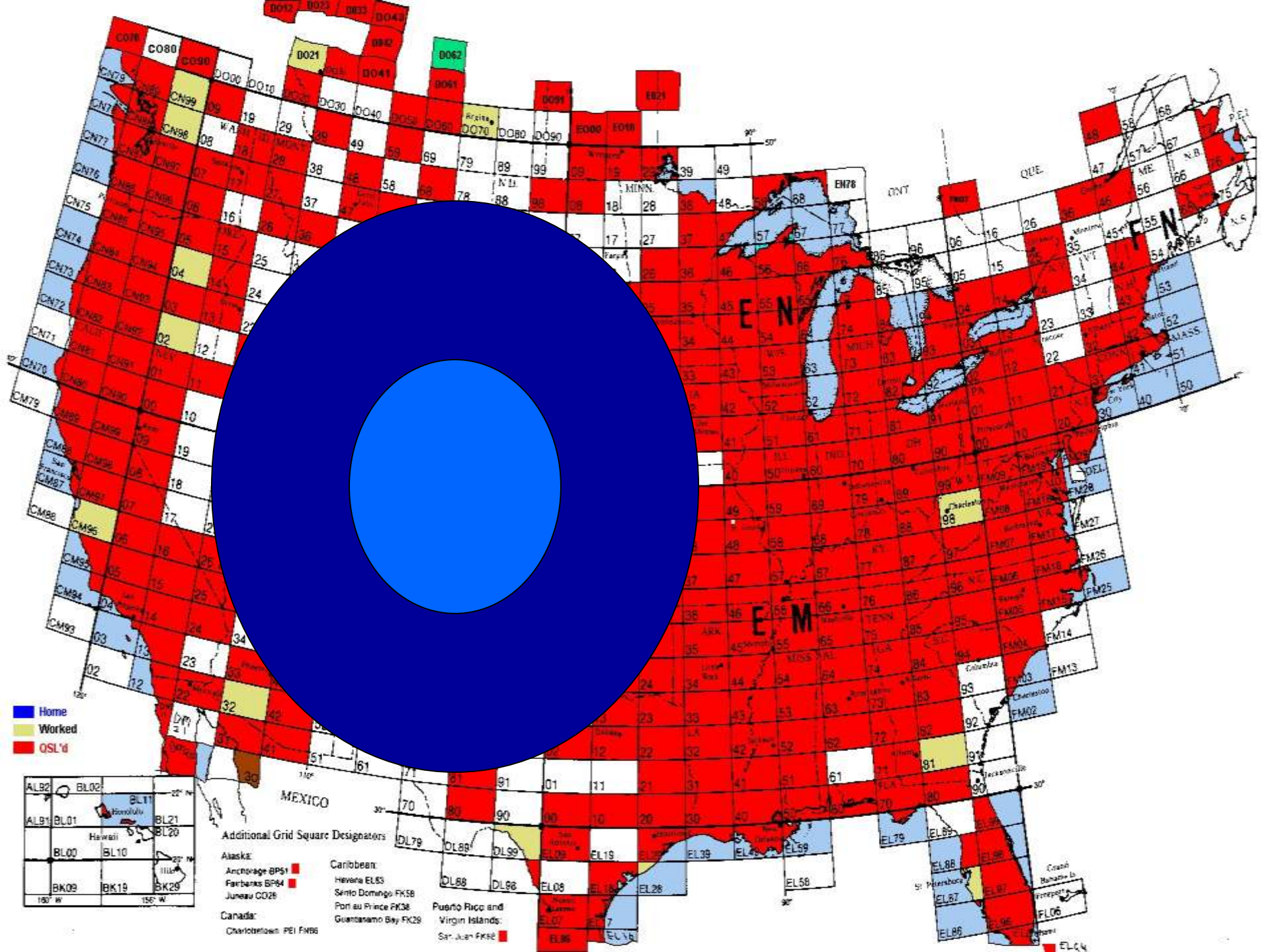
Home
Worked
QSL'd
Additional Grid Square Designators
Alaska:
Anchorage BP51
Fairbanks BP64
Juneau CO28
Canada:
Charlottetown PEI FN66
Caribbean:
Havana EL53
Santo Domingo FK58
Port au Prince FK38
Guantanamo Bay FK29
Puerto Rico and Virgin Islands:
San Juan FK68
MEXICO
D N
D M
E N
E M
F N

Six Meter Grids N0POH



This is a grid map of the USA, created in MS EXCEL, showing all 488 grids included in the FFMA award. It is possible, using the "fill" function of EXCEL to color backgrounds of individual grids, example; YELLOW=NEED, ORANGE=WORKED, RED=QSL Requested, BLUE = Confirmed, GREEN = ARRL Verified.

Created By: N7KA March 2009.



Home
Worked
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Alaska:
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Port au Prince FK38
Guantanamo Bay FK29
Puerto Rico and Virgin Islands:
San Juan FK68

Modest beginnings, a Kenwood TR-751A driving a Mirage 2516 brick to a 13 element Cushcraft 13B2. No 6 meter Scatter from 10 watts and a dipole.

35’ Tower / 20’ Mast

2m 18XXX M^2

222 7 wl M^2

432 9wl M^2

6 m 6M5X M^2

1296 M^2

902 M^2

Left to Right

ICOM 756 PROIII HF +6m

RigBlaster duo PC Interface

Yaseu FT-736R 2m/222/432/1296

Hy-gain Tailtwister Controller

Upper Shelf 10 GHz and 902

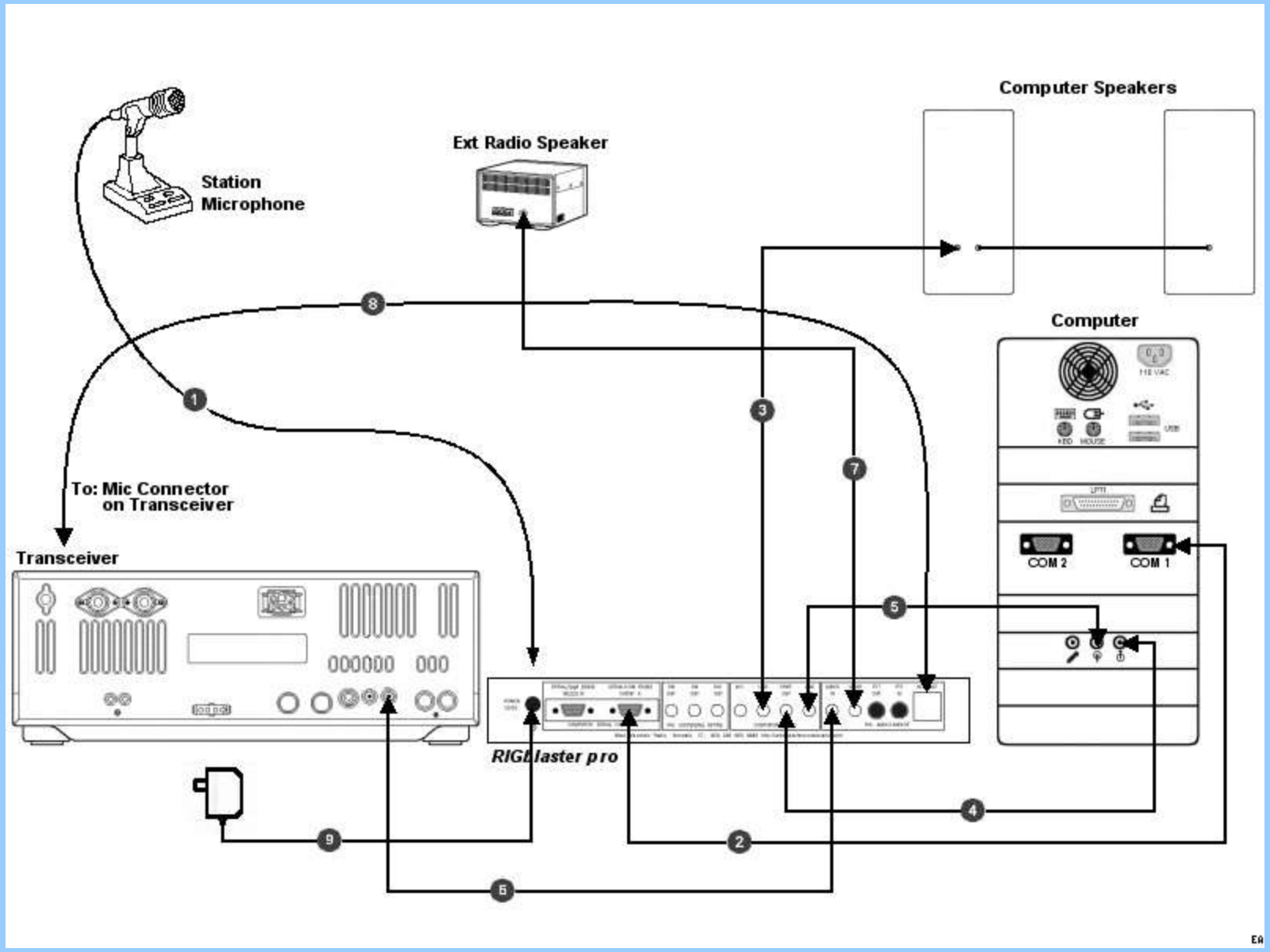
Under bench 432/222/2m Bricks

West Mountain RADIO

Transceiver to Computer Interfaces

Your PC to Transceiver Link

GETTING CONNECTED



WSJT Home Page

by K1JT

Home
WSJT
MAP65
WSPR
SimJT
Program Development
References

Description

WSJT facilitates basic digital communication using protocols explicitly optimized for a number of different propagation modes.

Protocols

See User's Guide for details.

- **FSK441** for meteor scatter
- **JT6M** for ionospheric scatter
- **JT65** for EME at VHF/UHF, and for HF skywave propagation
- **JT2**, **JT4**, **WSPR**: experimental modes

Downloads

- Beta release of WSJT 9.0
  - Windows WSJT 9.0
  - Linux WSJT 9.0
  - WSJT 9.0 Supplement to User's Guide
    - English
    - Italian
    - Portuguese
- Latest production release of WSJT7
  - Windows WSJT 7.07
  - Linux WSJT 7.06

http://www.physics.princeton.edu/pulsar/K1JT/

What is WSJT?

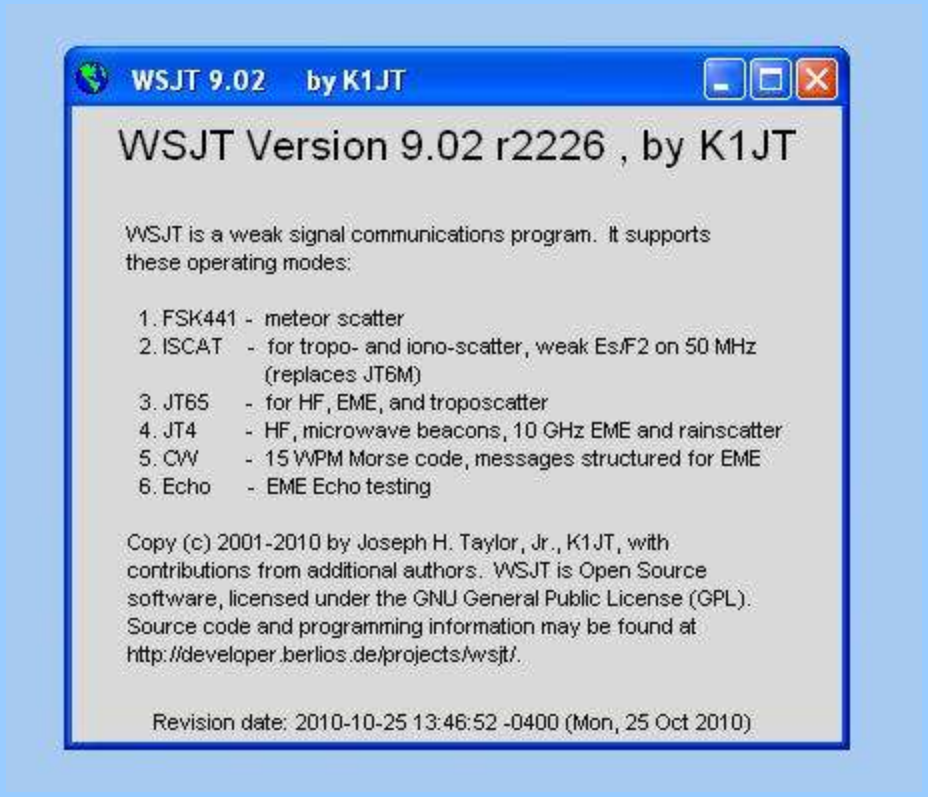
WSJT ("Weak Signal Communication, by Joe Taylor K1JT") offers specific digital protocols optimized for meteor scatter, ionospheric scatter, and EME (moonbounce) at VHF/UHF, as well as HF skywave propagation. The program can decode fraction-of-a-second signals reflected from ionized meteor trails and steady signals 10 dB below the audible threshold. A beta release of **WSJT 9.0** is now available.

FSK441 for meteor scatter
JT6M for ionospheric scatter (version 7 and earlier)
ISCAT for ionospheric scatter (version 9)
JT65 for EME at VHF/UHF, and for HF skywave propagation

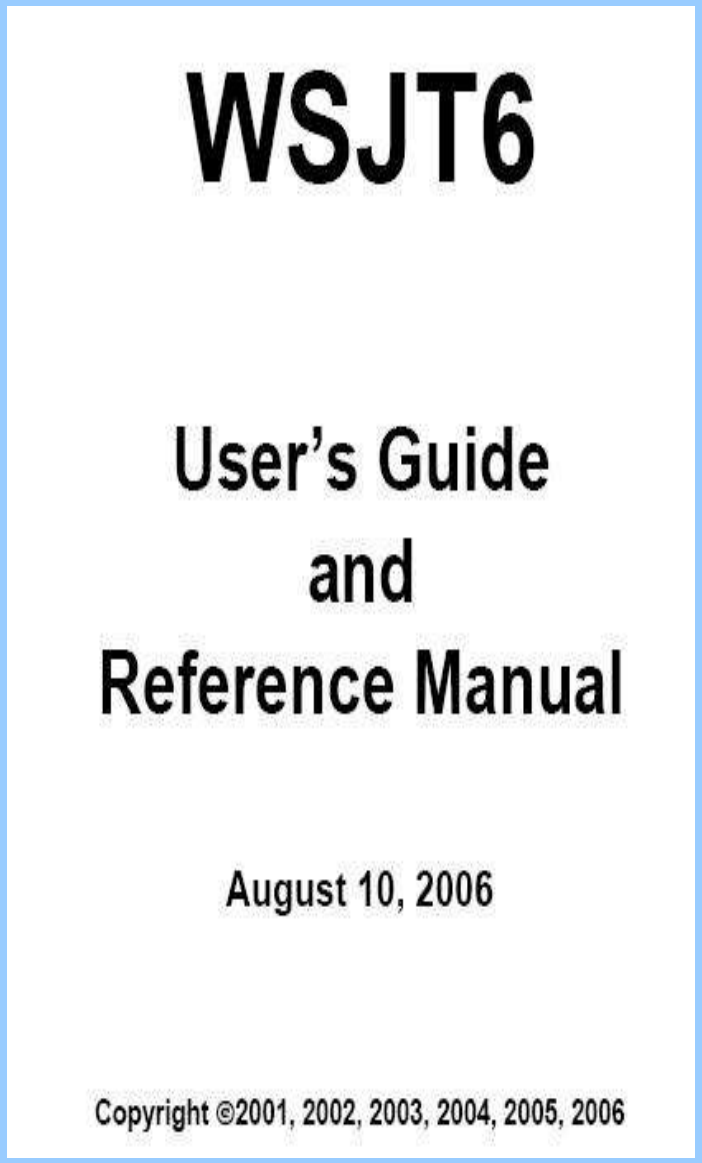
Operating Systems

WSJT was originally developed in the heyday of WindowsXP™. Although users have brought it to other Windows™ versions and other operating platforms, when it comes to common home computers and laptops it still seems to perform best on WindowsXP™ machines.

For computer experimenters, there is a download version for the Linux operating system, as well as notes on K1JT's WSJT site for using WSJT with other operating systems.



The about screen from WSJT 9.02 shows the most current release and decoding modes and their purposes… This install was July 14, 2011. We're ready to configure our WSJT application and get ready for some digital operating!



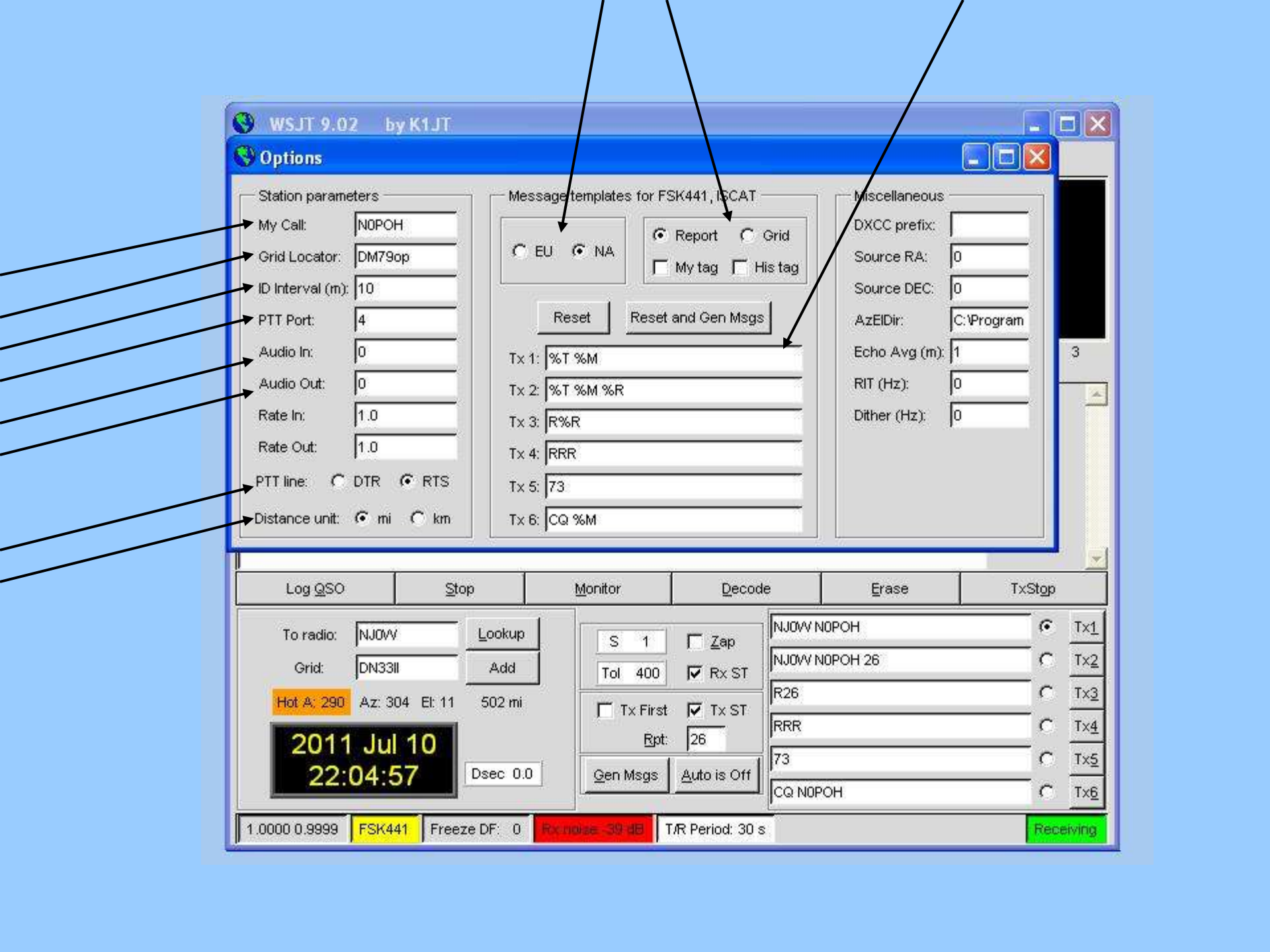
WSJT 9.0: Supplement to User's Guide Joe Taylor, K1JT Updated: September 10, 2010

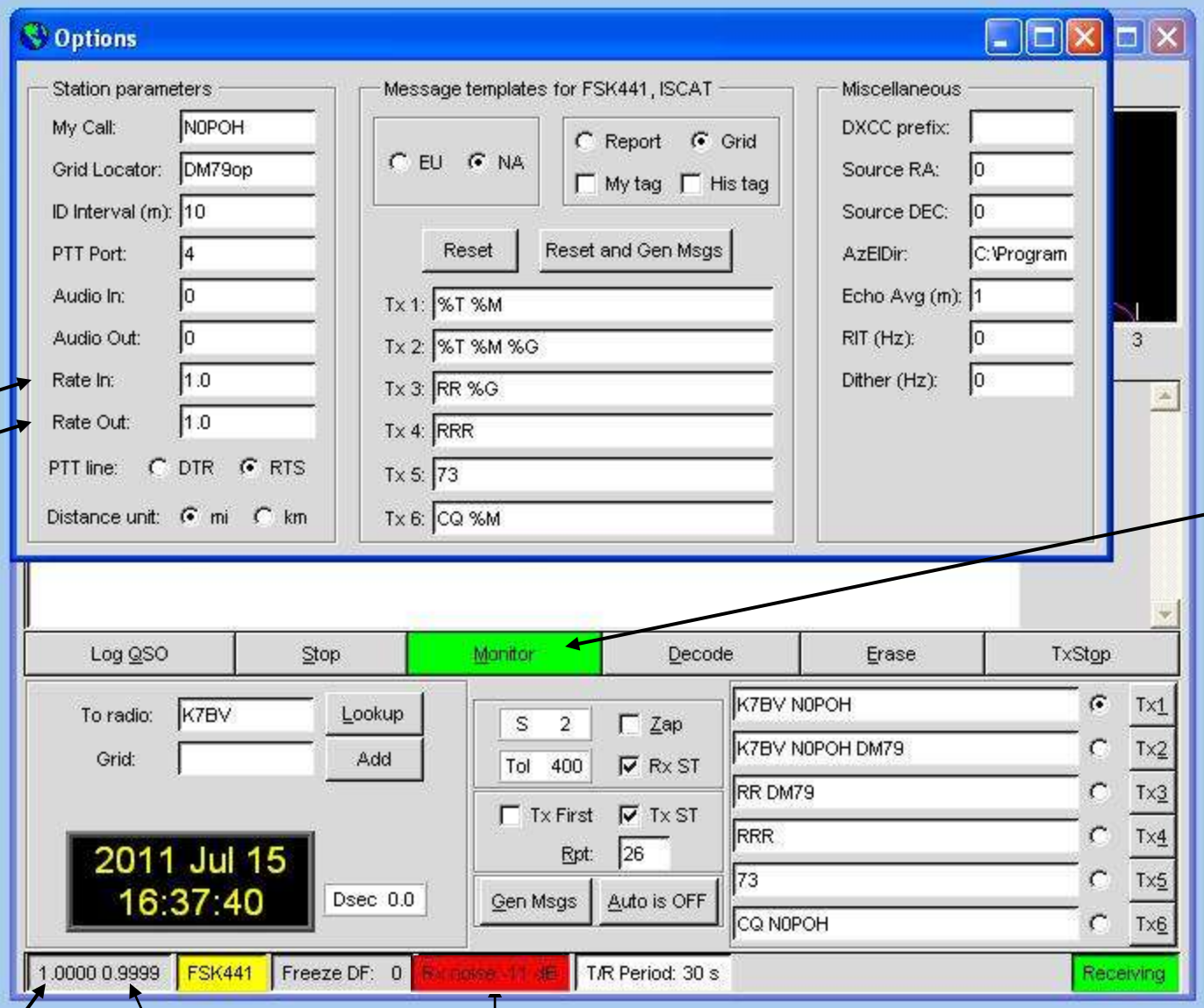
Overview

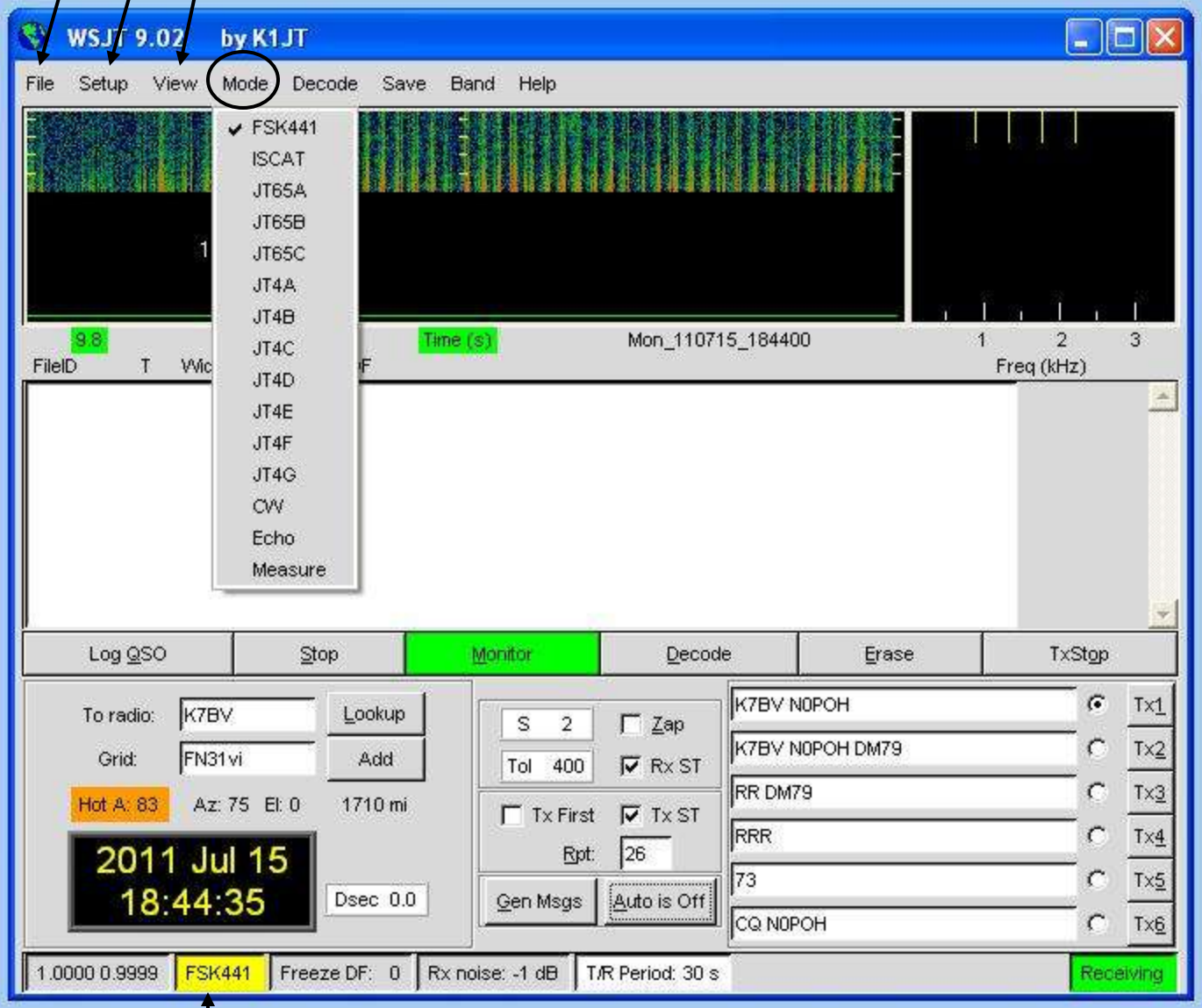
WSJT 9.0 is the latest version of the familiar weak-signal communication program WSJT.

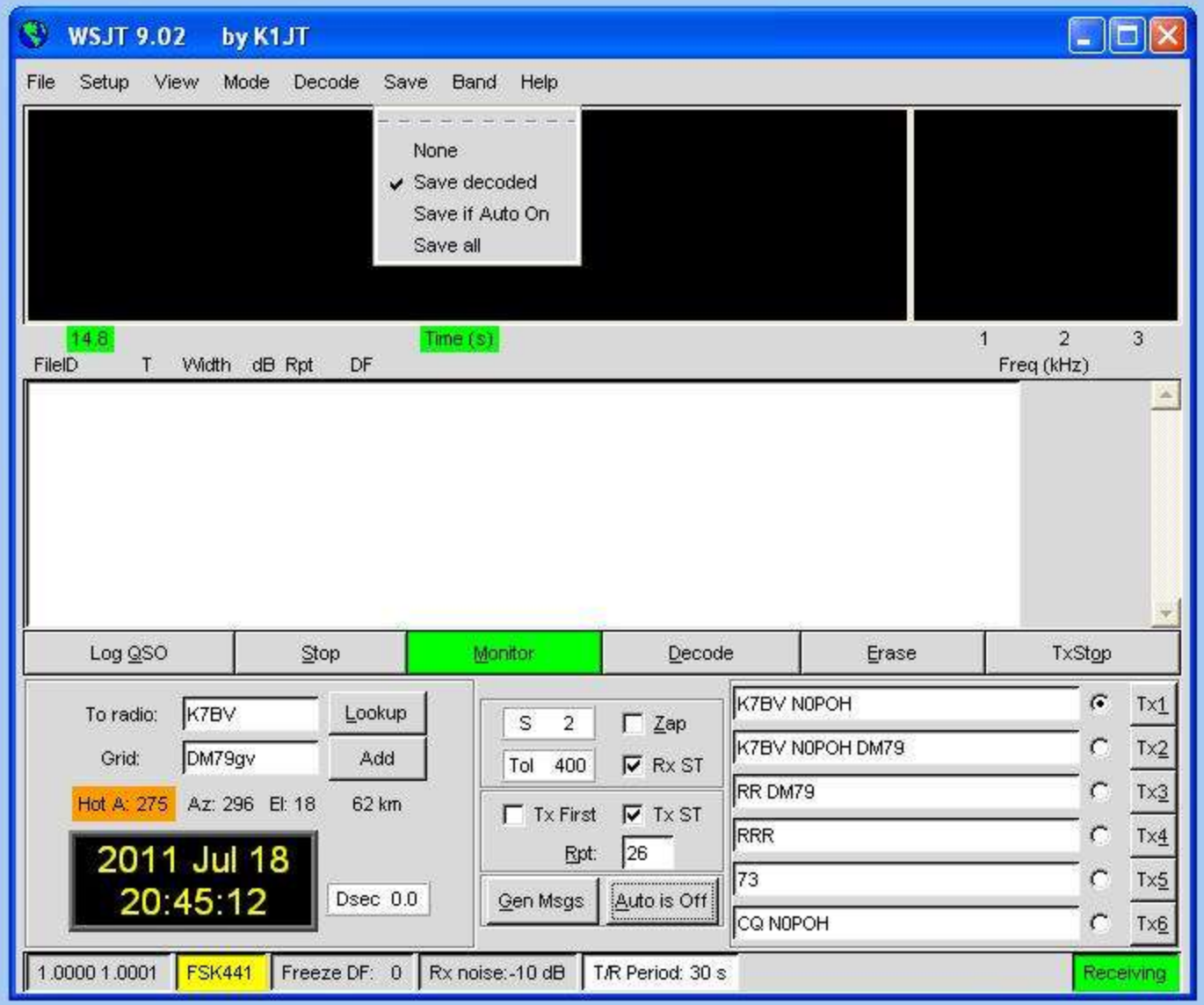
Your Home for WSJT

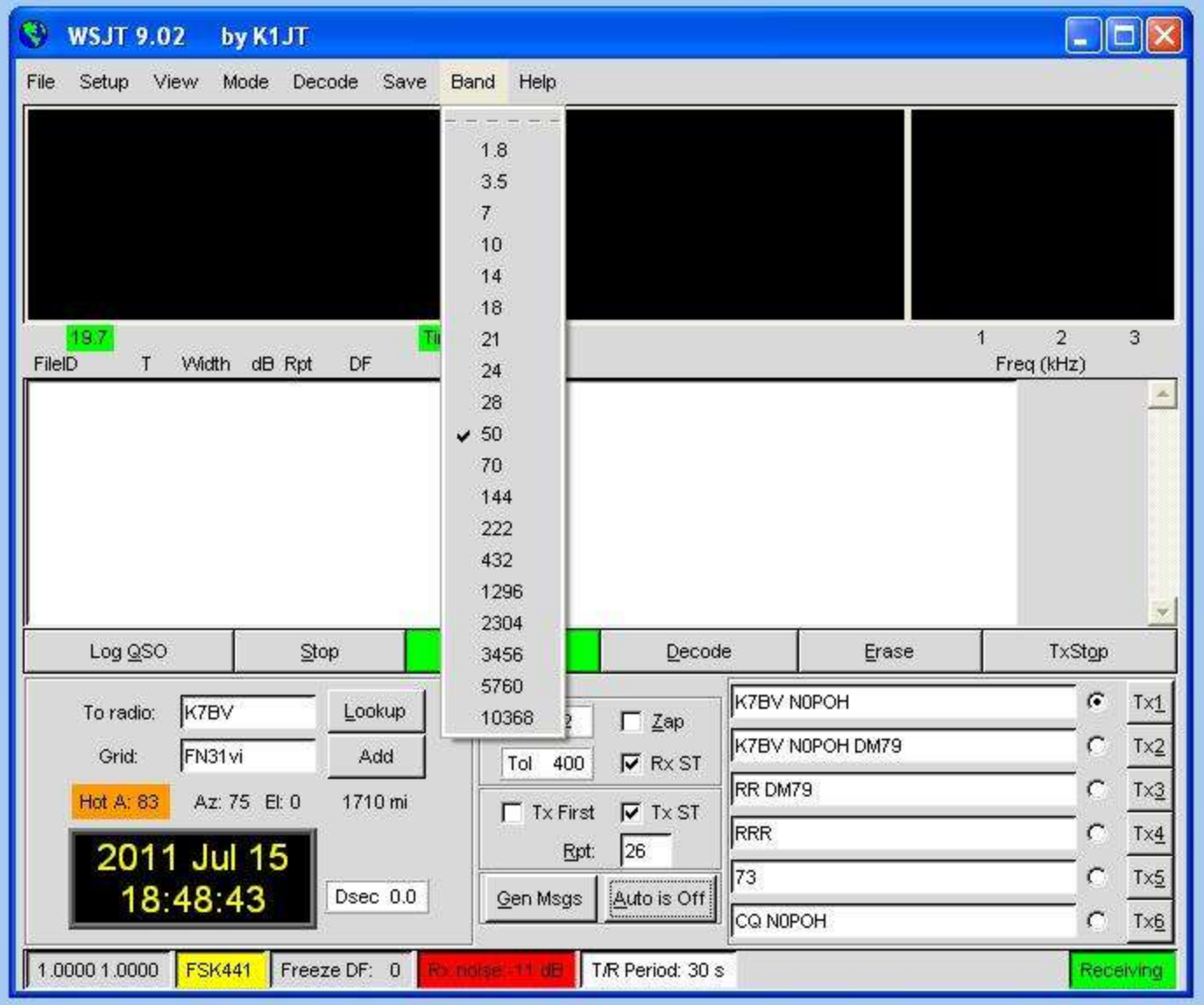
http://www.physics.princeton.edu/pulsar/K1JT/

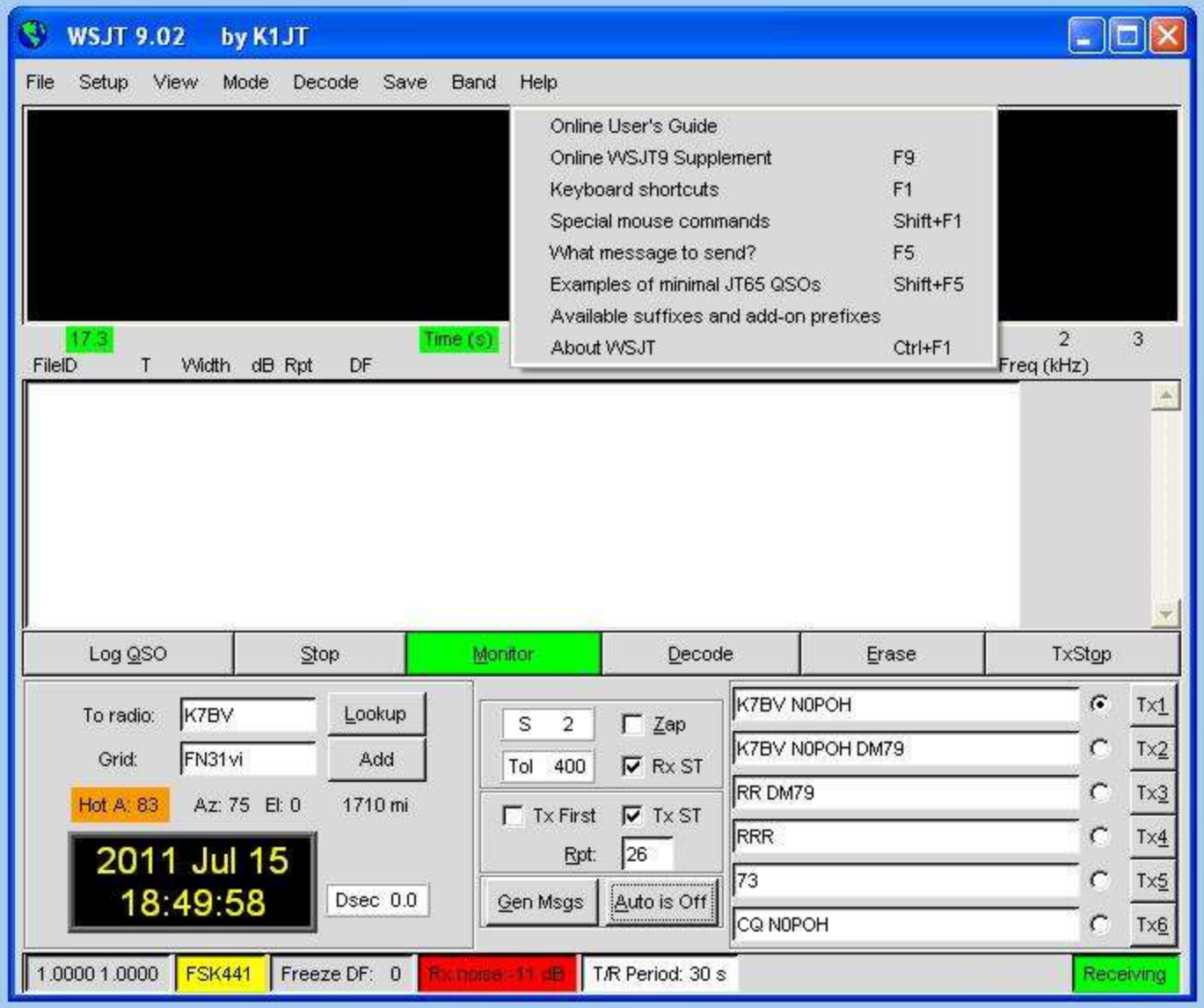

WSJT 9.02 by K1JT
Options
Station parameters
My Call: N0POH
Grid Locator: DM79op
ID Interval (m): 10
PTT Port: 4
Audio In: 0
Audio Out: 0
Rate In: 1.0
Rate Out: 1.0
PTT line: DTR RTS
Distance unit: mi km
Message templates for FSK441, ISCAT
EU NA
Report Grid
My tag His tag
Reset
Reset and Gen Msgs
Tx 1: %T %M
Tx 2: %T %M %R
Tx 3: R%R
Tx 4: RRR
Tx 5: 73
Tx 6: CQ %M
Miscellaneous
DXCC prefix:
Source RA: 0
Source DEC: 0
AzElDir: C:\Program
Echo Avg (m): 1
RIT (Hz): 0
Dither (Hz): 0
3
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: NJ0V
Lookup
Grid: DN33ll
Add
Hot A: 290
Az: 304 El: 11
502 mi
2011 Jul 10
22:04:57
Dsec 0.0
S 1
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is Off
NJ0V N0POH
NJ0V N0POH 26
R26
RRR
73
CQ N0POH
Tx1
Tx2
Tx3
Tx4
Tx5
Tx6
1.0000 0.9999
FSK441
Freeze DF: 0
Rx noise -39 dB
T/R Period: 30 s
Receiving

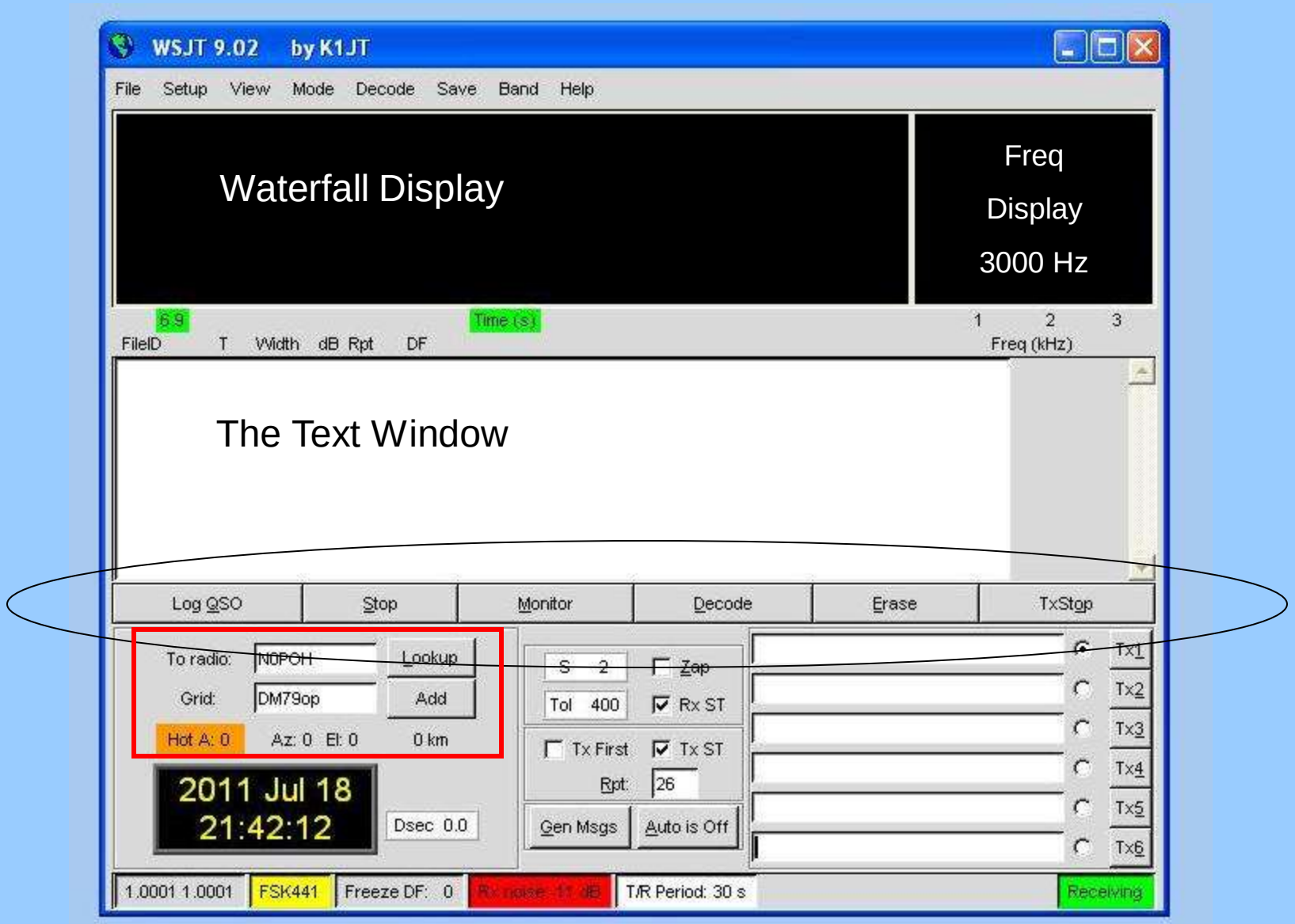

Options
Station parameters
My Call: N0POH
Grid Locator: DM79op
ID Interval (m): 10
PTT Port: 4
Audio In: 0
Audio Out: 0
Rate In: 1.0
Rate Out: 1.0
PTT line: DTR RTS
Distance unit: mi km
Message templates for FSK441, ISCAT
EU NA
Report Grid
My tag His tag
Reset
Reset and Gen Msgs
Tx 1: %T %M
Tx 2: %T %M %G
Tx 3: RR %G
Tx 4: RRR
Tx 5: 73
Tx 6: CQ %M
Miscellaneous
DXCC prefix:
Source RA: 0
Source DEC: 0
AzElDir: C:\Program
Echo Avg (m): 1
RIT (Hz): 0
Dither (Hz): 0
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: K7BV
Grid:
Lookup
Add
2011 Jul 15
16:37:40
Dsec 0.0
S 2
Tol 400
Zap
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is OFF
K7BV N0POH
K7BV N0POH DM79
RR DM79
RRR
73
CQ N0POH
Tx1
Tx2
Tx3
Tx4
Tx5
Tx6
1.0000 0.9999
FSK441
Freeze DF: 0
T/R Period: 30 s
Receiving

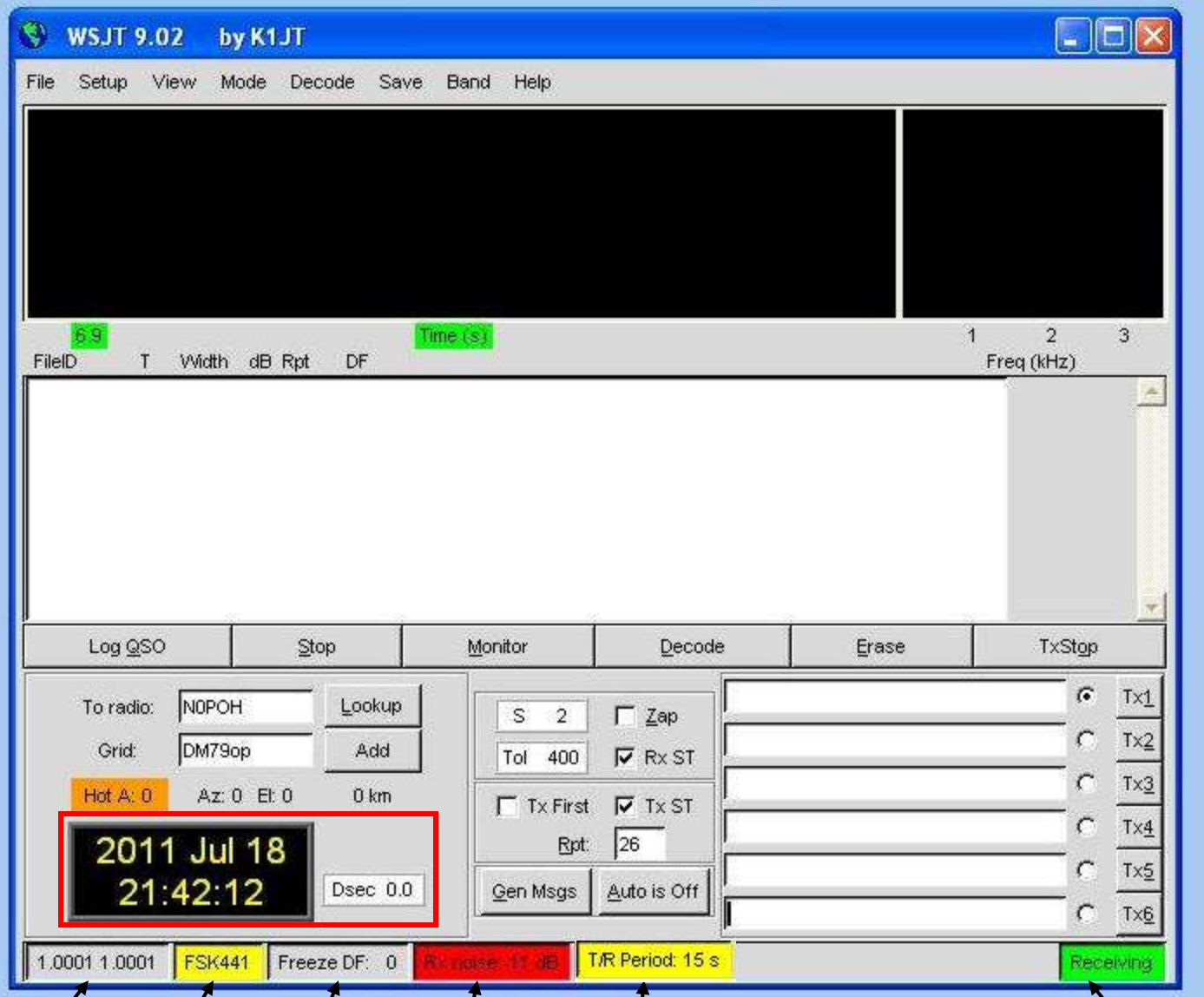

WSJT 9.02 by K1JT
File
Setup
View
Mode
Decode
Save
Band
Help
FSK441
ISCAT
JT65A
JT65B
JT65C
JT4A
JT4B
JT4C
JT4D
JT4E
JT4F
JT4G
CW
Echo
Measure
9.8
Time (s)
Mon_110715_184400
1
2
3
FileID
Freq (kHz)
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio:
K7BV
Lookup
Grid:
FN31vi
Add
Hot A: 83
Az: 75 El: 0
1710 mi
2011 Jul 15
18:44:35
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt:
26
Gen Msgs
Auto is Off
K7BV N0POH
K7BV N0POH DM79
RR DM79
RRR
73
CQ N0POH
Tx1
Tx2
Tx3
Tx4
Tx5
Tx6
1.0000 0.9999
FSK441
Freeze DF: 0
Rx noise: -1 dB
T/R Period: 30 s
Receiving

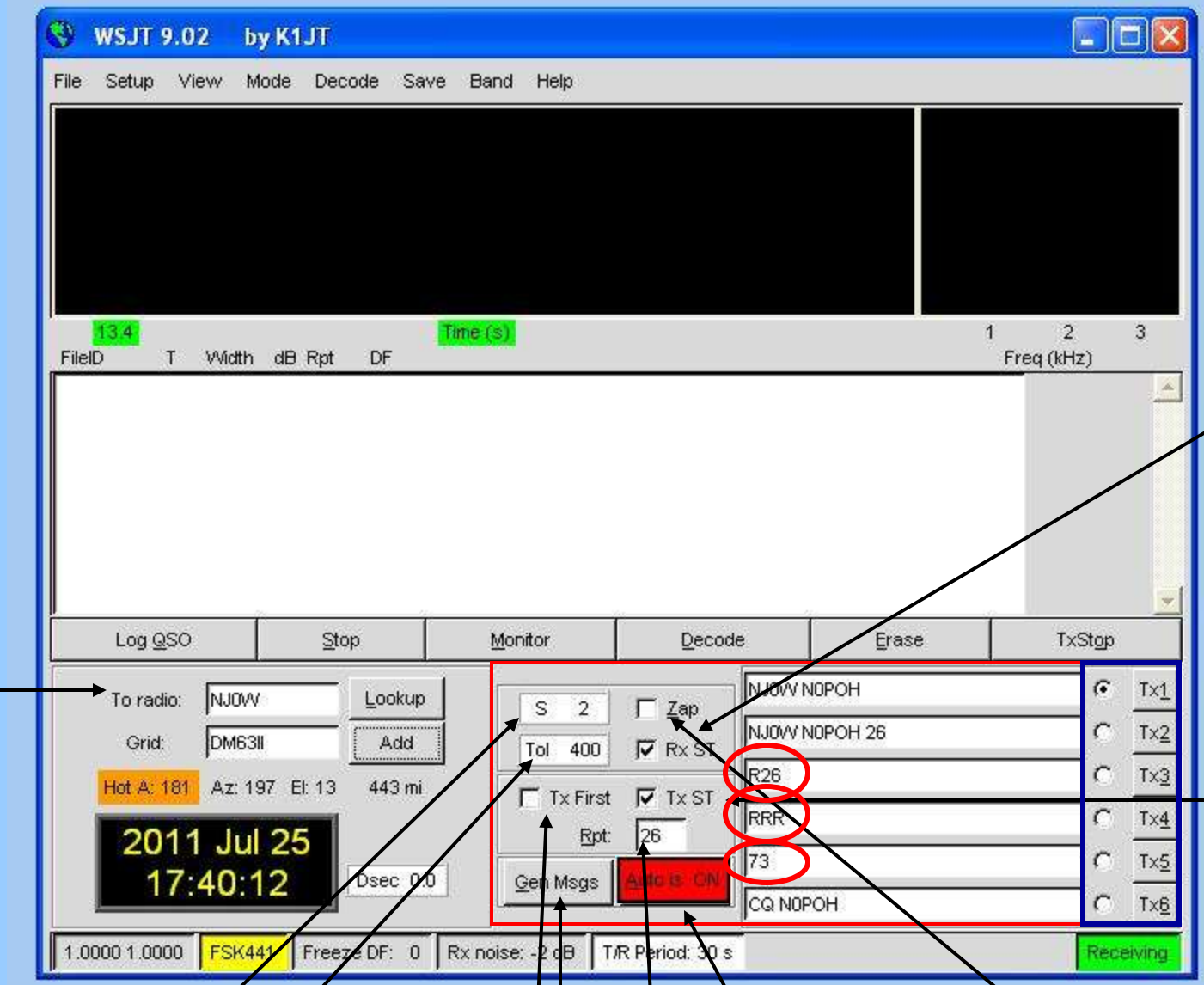

WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
None
Save decoded
Save if Auto On
Save all
14.8
Time (s)
1 2 3
FileID T Width dB Rpt DF
Freq (kHz)
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: K7BV
Lookup
Grid: DM79gv
Add
Hot A: 275
Az: 296 El: 18
62 km
2011 Jul 18
20:45:12
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is Off
K7BV N0POH
Tx1
K7BV N0POH DM79
Tx2
RR DM79
Tx3
RRR
Tx4
73
Tx5
CQ N0POH
Tx6
1.0000 1.0001
FSK441
Freeze DF: 0
Rx noise: -10 dB
T/R Period: 30 s
Receiving

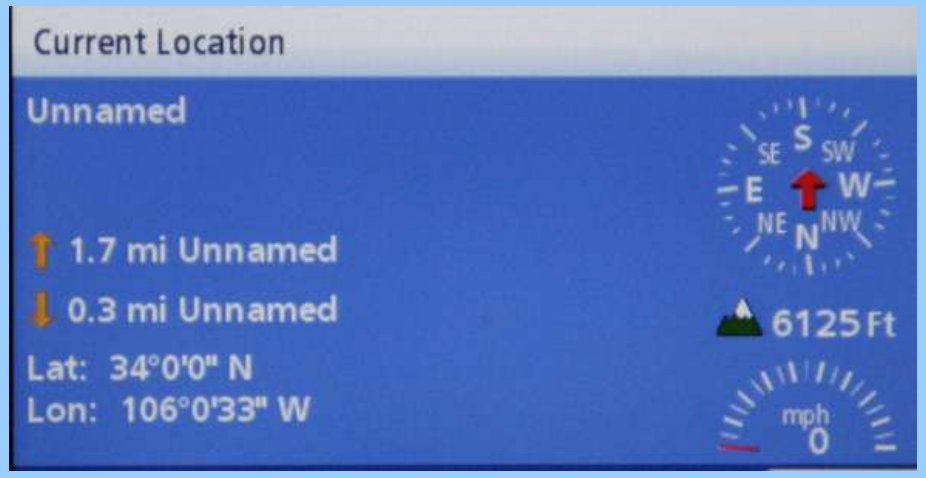

WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
1.8
3.5
7
10
14
18
21
24
28
50
70
144
222
432
1296
2304
3456
5760
10368
19.7
FileID T Width dB Rpt DF
1 2 3
Freq (kHz)
Log QSO Stop Decode Erase TxStop
To radio: K7BV Lookup
Grid: FN31vi Add
Hot A: 83 Az: 75 El: 0 1710 mi
2011 Jul 15
18:48:43
Dsec 0.0
Zap
Tol 400 Rx ST
Tx First Tx ST
Rpt: 26
Gen Msgs Auto is Off
K7BV N0POH Tx1
K7BV N0POH DM79 Tx2
RR DM79 Tx3
RRR Tx4
73 Tx5
CQ N0POH Tx6
1.0000 1.0000 FSK441 Freeze DF: 0 T/R Period: 30 s Receiving


WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
Online User's Guide
Online WSJT9 Supplement F9
Keyboard shortcuts F1
Special mouse commands Shift+F1
What message to send? F5
Examples of minimal JT65 QSOs Shift+F5
Available suffixes and add-on prefixes
About WSJT Ctrl+F1
17.3
Time (s)
2
3
FileID T Width dB Rpt DF
Freq (kHz)
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: K7BV
Lookup
Grid: FN31vi
Add
Hot A: 83
Az: 75 El: 0
1710 mi
2011 Jul 15
18:49:58
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is Off
K7BV N0POH
Tx1
K7BV N0POH DM79
Tx2
RR DM79
Tx3
RRR
Tx4
73
Tx5
CQ N0POH
Tx6
1.0000 1.0000
FSK441
Freeze DF: 0
Rx noise: -11 dB
T/R Period: 30 s
Receiving


WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
Waterfall Display
Freq
Display
3000 Hz
6 9
Time (s)
1 2 3
FileID T Width dB Rpt DF
Freq (kHz)
The Text Window
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio:
N0POH
Lookup
Grid:
DM79op
Add
Hot A: 0
Az: 0 El: 0
0 km
2011 Jul 18
21:42:12
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt:
26
Gen Msgs
Auto is Off
Tx1
Tx2
Tx3
Tx4
Tx5
Tx6
1.0001 1.0001
FSK441
Freeze DF: 0
T/R Period: 30 s
Receiving

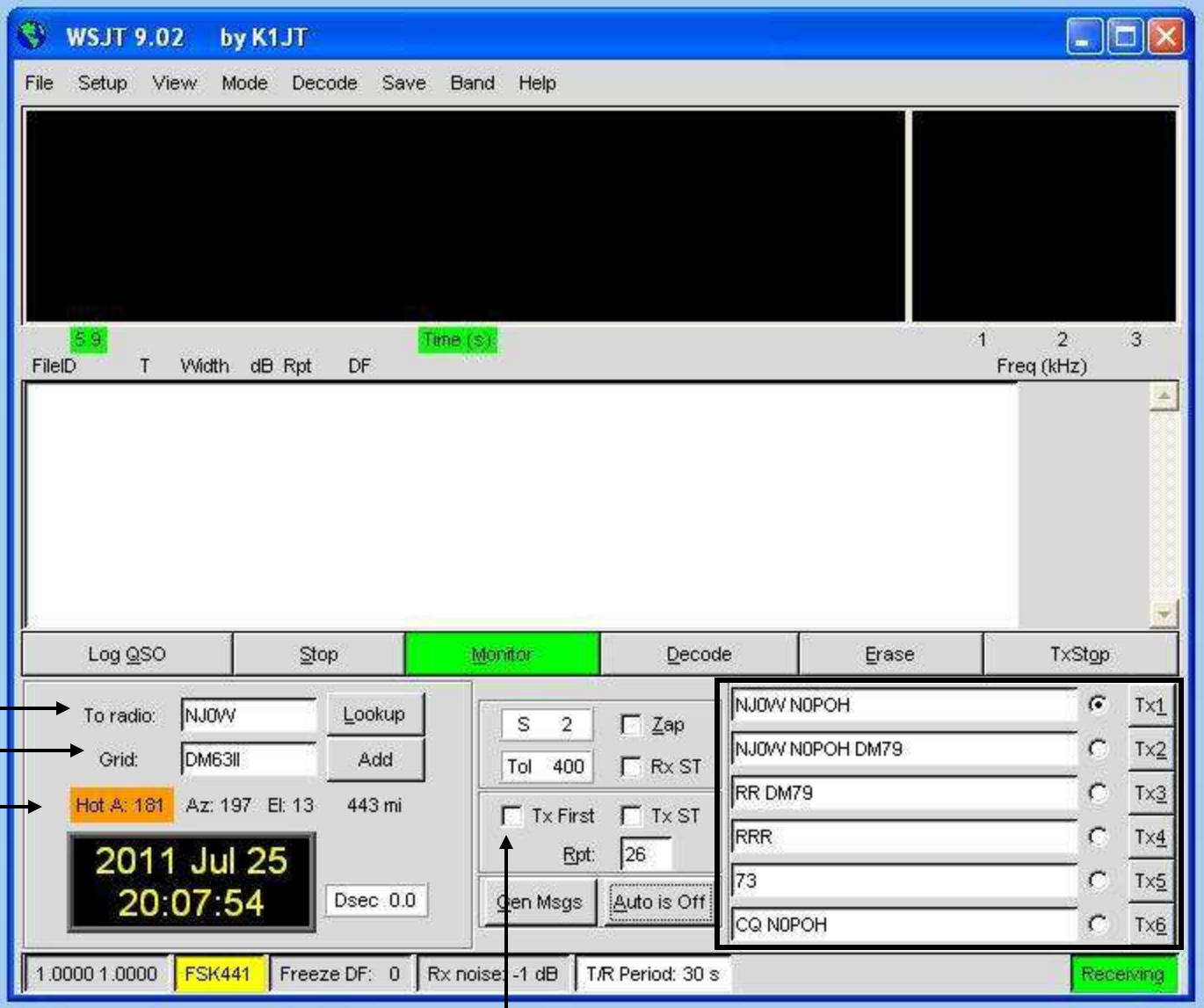

WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
6 9
Time (s)
1 2 3
FileID T Width dB Rpt DF
Freq (kHz)
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: N0POH
Lookup
Grid: DM79op
Add
Hot A: 0
Az: 0 El: 0
0 km
2011 Jul 18
21:42:12
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is Off
Tx1
Tx2
Tx3
Tx4
Tx5
Tx6
1.0001 1.0001
FSK441
Freeze DF: 0
T/R Period: 15 s
Receiving


WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
13.4
Time (s)
1 2 3
FileID T Width dB Rpt DF
Freq (kHz)
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio:
NJ0W
Lookup
Grid:
DM63ll
Add
Hot A: 181
Az: 197 El: 13
443 mi
2011 Jul 25
17:40:12
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt:
26
Gen Msgs
Auto is ON
NJ0W N0POH
NJ0W N0POH 26
R26
RRR
73
CQ N0POH
Tx1
Tx2
Tx3
Tx4
Tx5
Tx6
1.0000 1.0000
FSK441
Freeze DF: 0
Rx noise: -2 dB
T/R Period: 30 s
Receiving

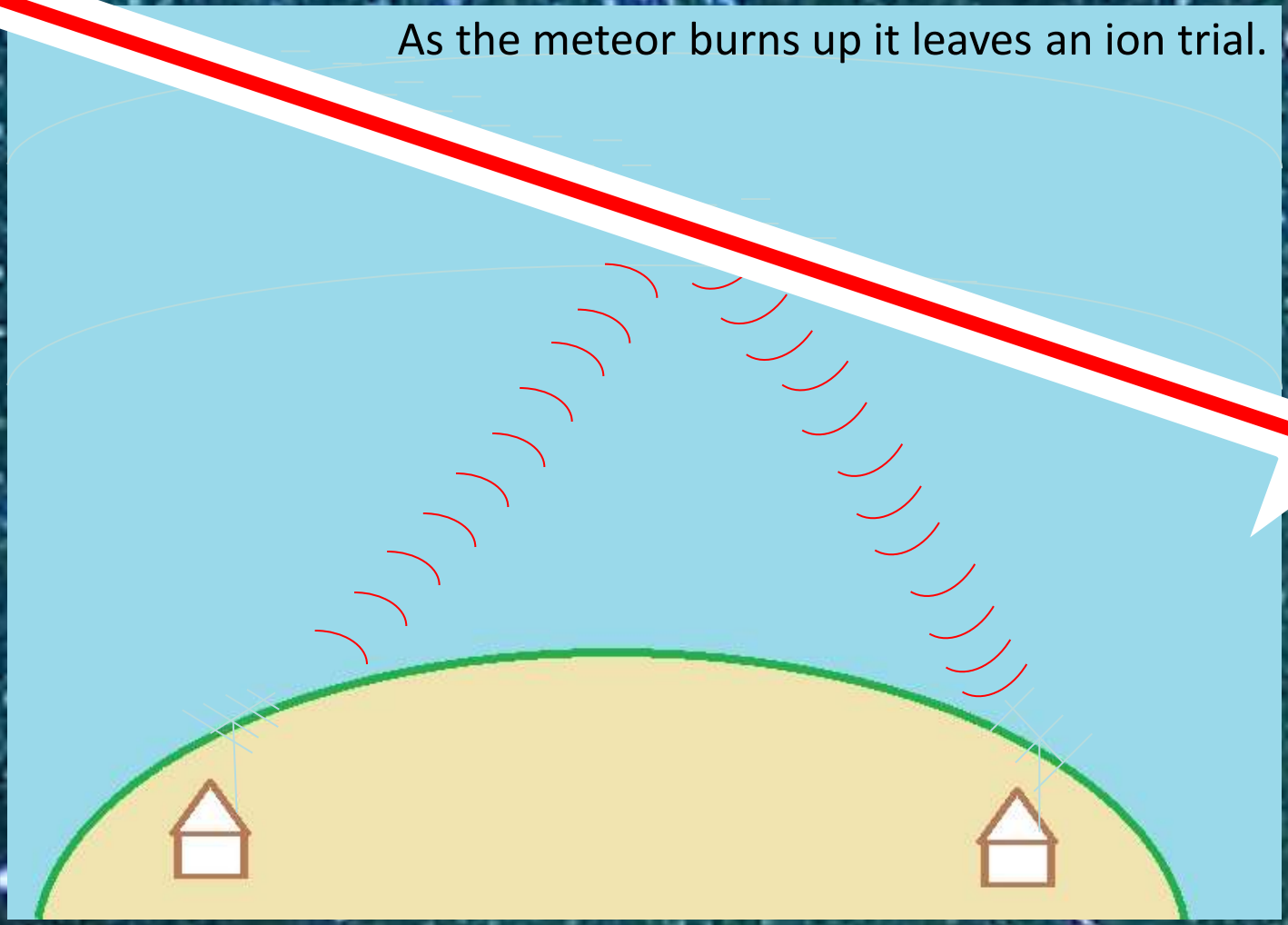

Current Location
Unnamed
1.7 mi Unnamed
0.3 mi Unnamed
Lat: 34°0'0" N
Lon: 106°0'33" W
S
SW
W
NW
N
NE
E
SE
6125 Ft
mph
0

65
75
64
74
63
73

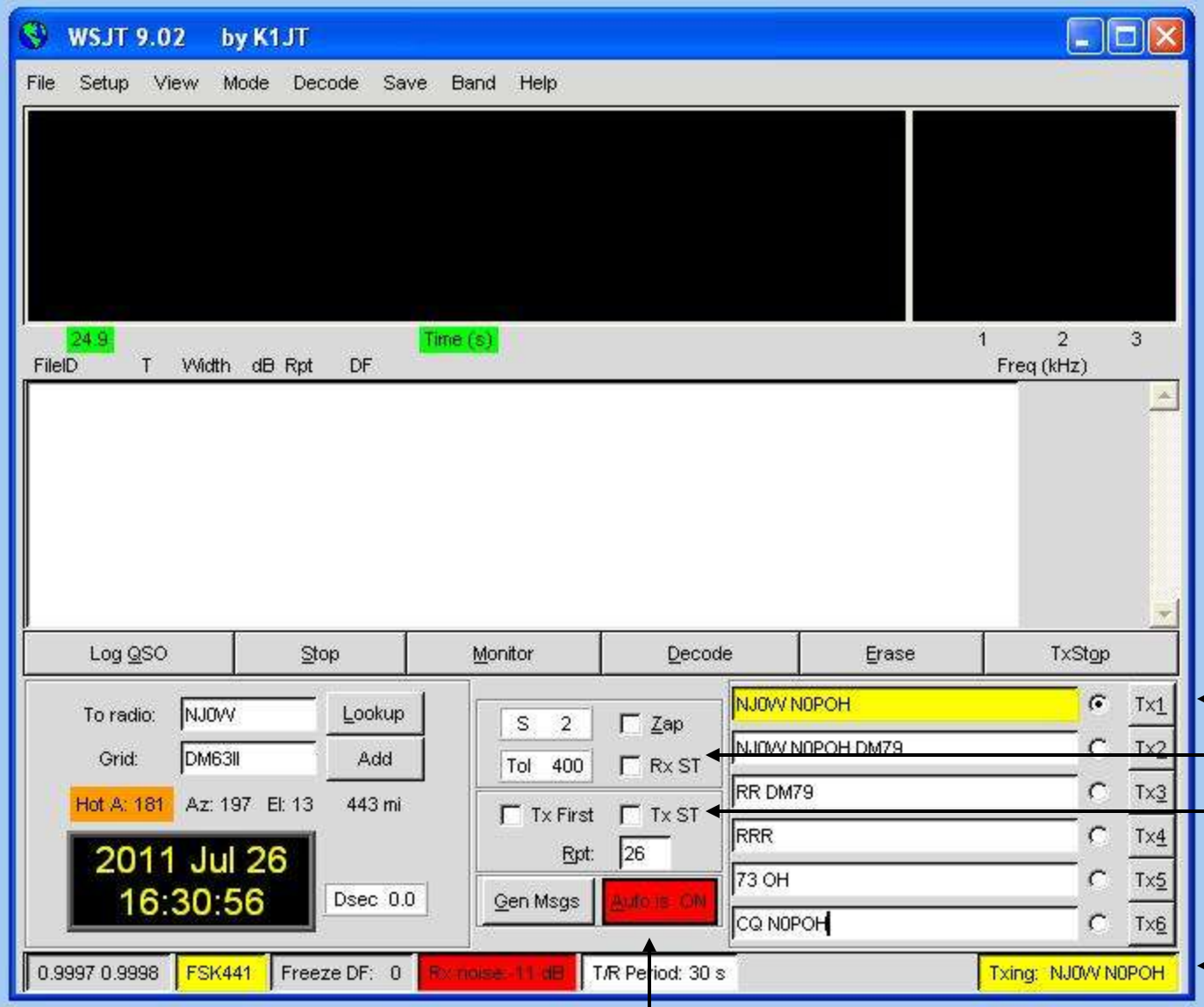
WWW.6T6KIX.COM

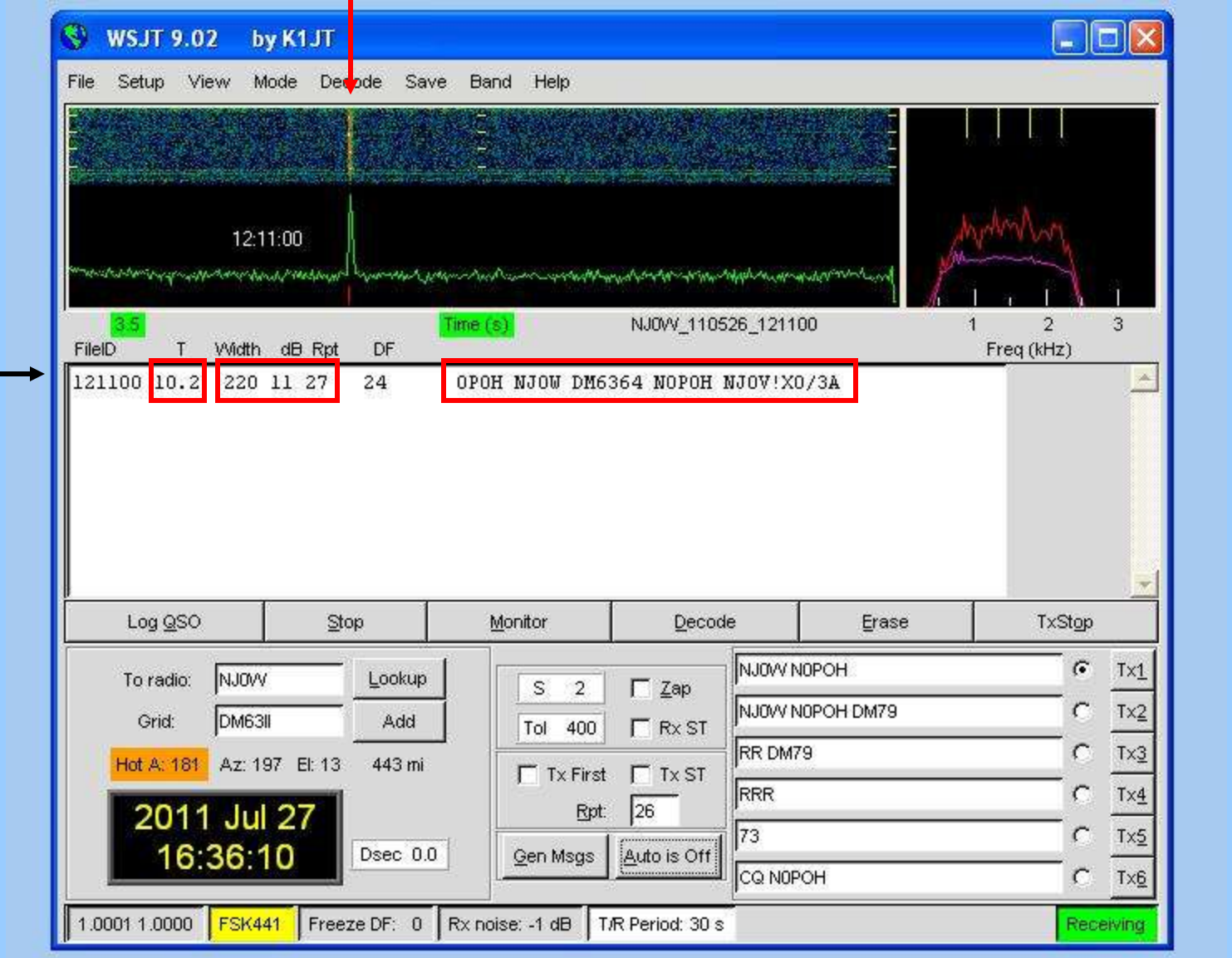

WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
5 9
Time (s):
1 2 3
FileID T Width dB Rpt DF
Freq (kHz)
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio:
NJ0W
Lookup
Grid:
DM63ll
Add
Hot A: 181
Az: 197 El: 13
443 mi
2011 Jul 25
20:07:54
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt:
26
Gen Msgs
Auto is Off
NJ0W N0POH
Tx1
NJ0W N0POH DM79
Tx2
RR DM79
Tx3
RRR
Tx4
73
Tx5
CQ N0POH
Tx6
1.0000 1.0000
FSK441
Freeze DF: 0
Rx noise: -1 dB
T/R Period: 30 s
Receiving

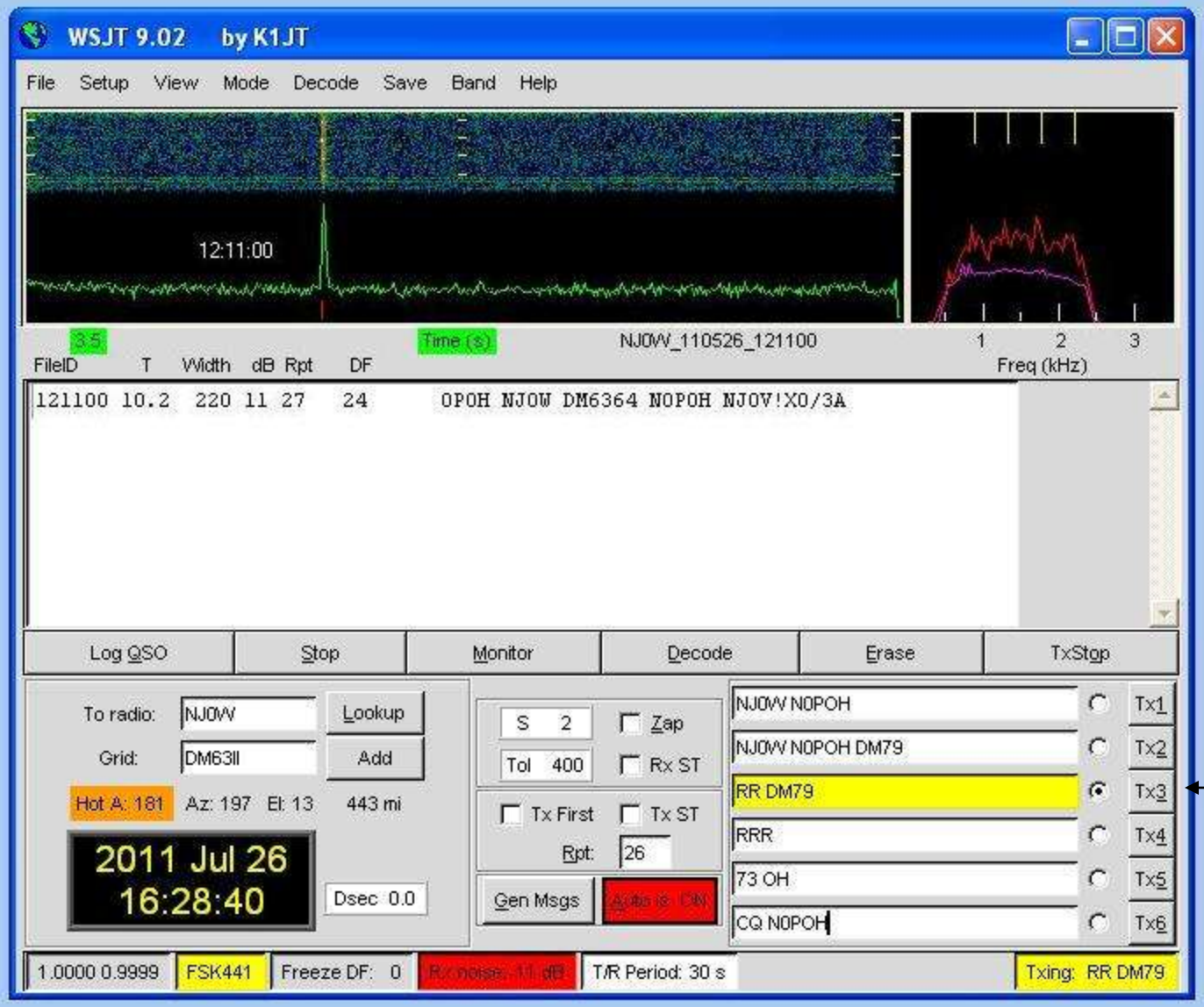
During a shower many meteors will travel through the ionosphere

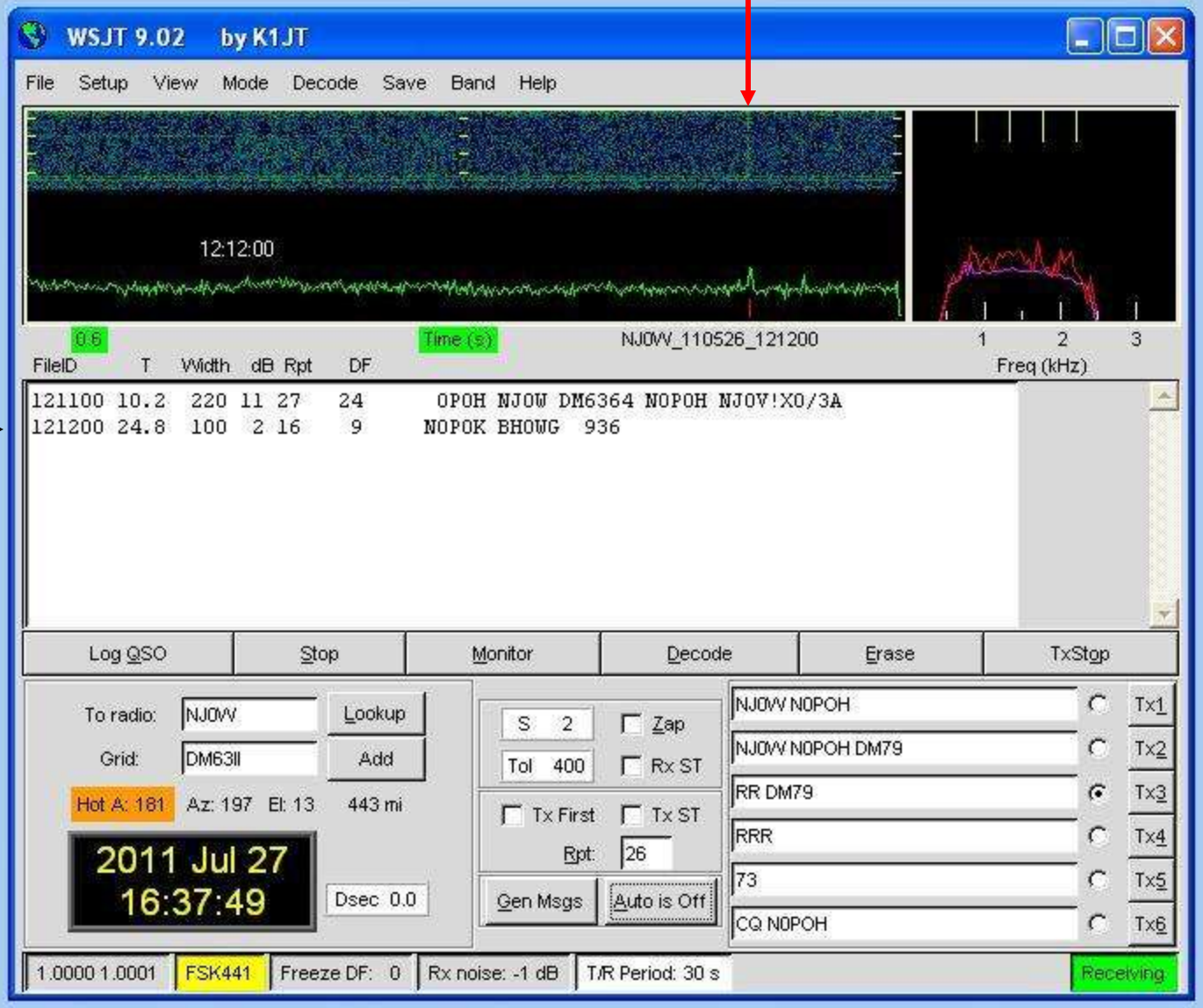


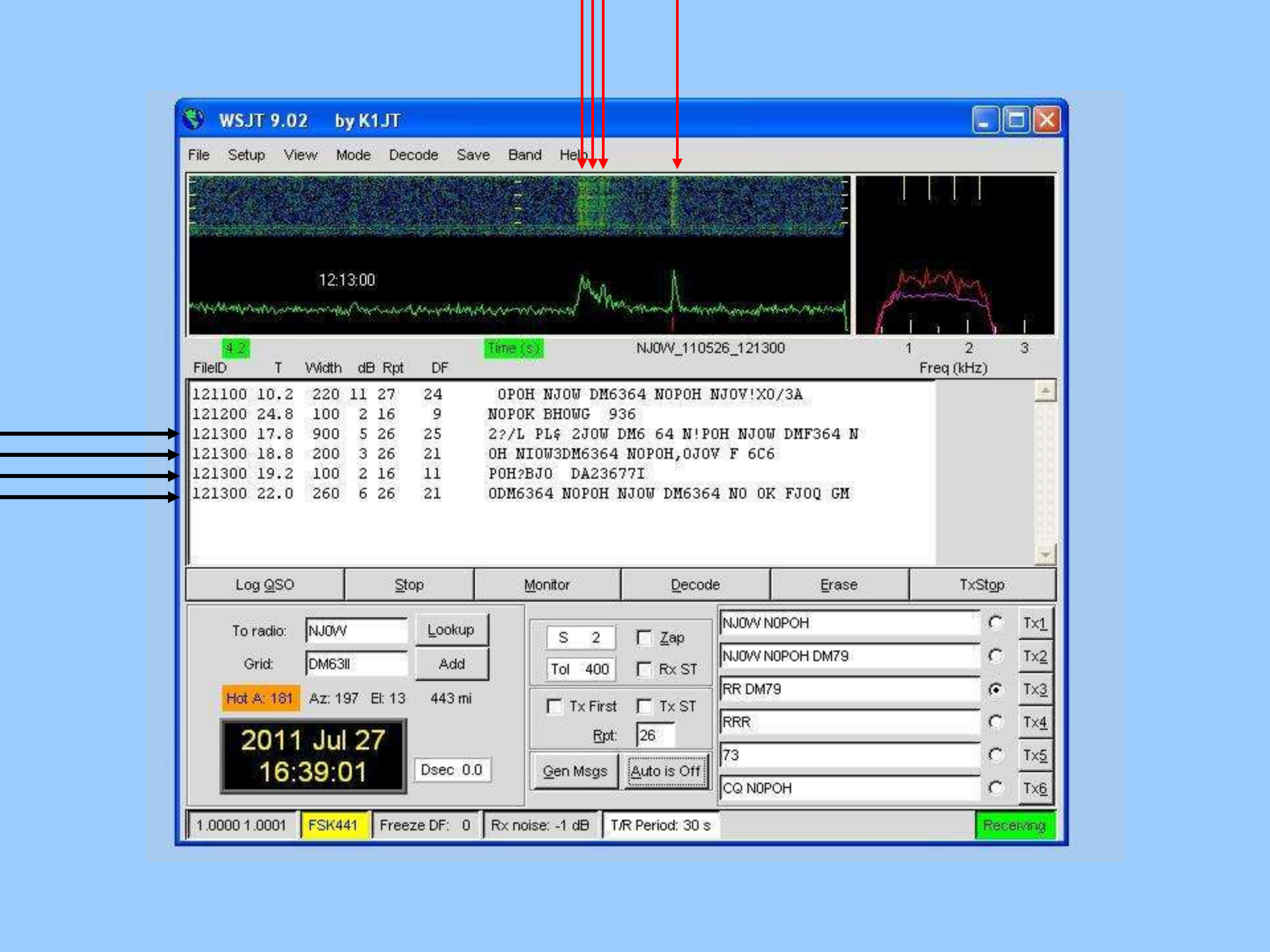
If a radio signal is heading in the direction of the meteor's ion trail it can be reflected back to earth

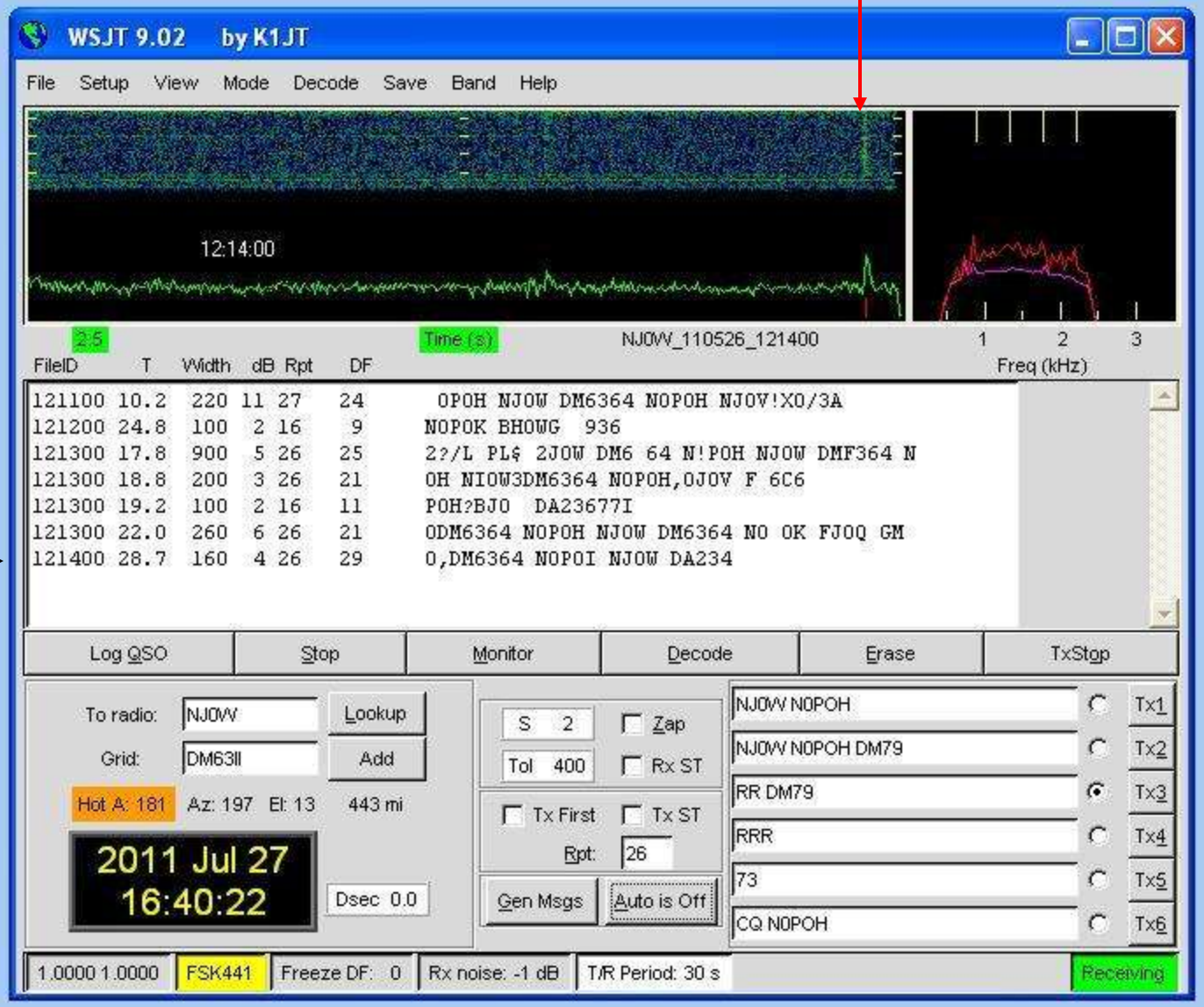

WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
24.9
Time (s)
1 2 3
FileID T Width dB Rpt DF
Freq (kHz)
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: NJ0W
Lookup
Grid: DM63ll
Add
Hot A: 181
Az: 197 El: 13
443 mi
2011 Jul 26
16:30:56
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is ON
NJ0W N0POH
Tx1
NJ0W N0POH DM79
Tx2
RR DM79
Tx3
RRR
Tx4
73 OH
Tx5
CQ N0POH
Tx6
0.9997 0.9998
FSK441
Freeze DF: 0
Rx noise: -11 dB
T/R Period: 30 s
Txing: NJ0W N0POH

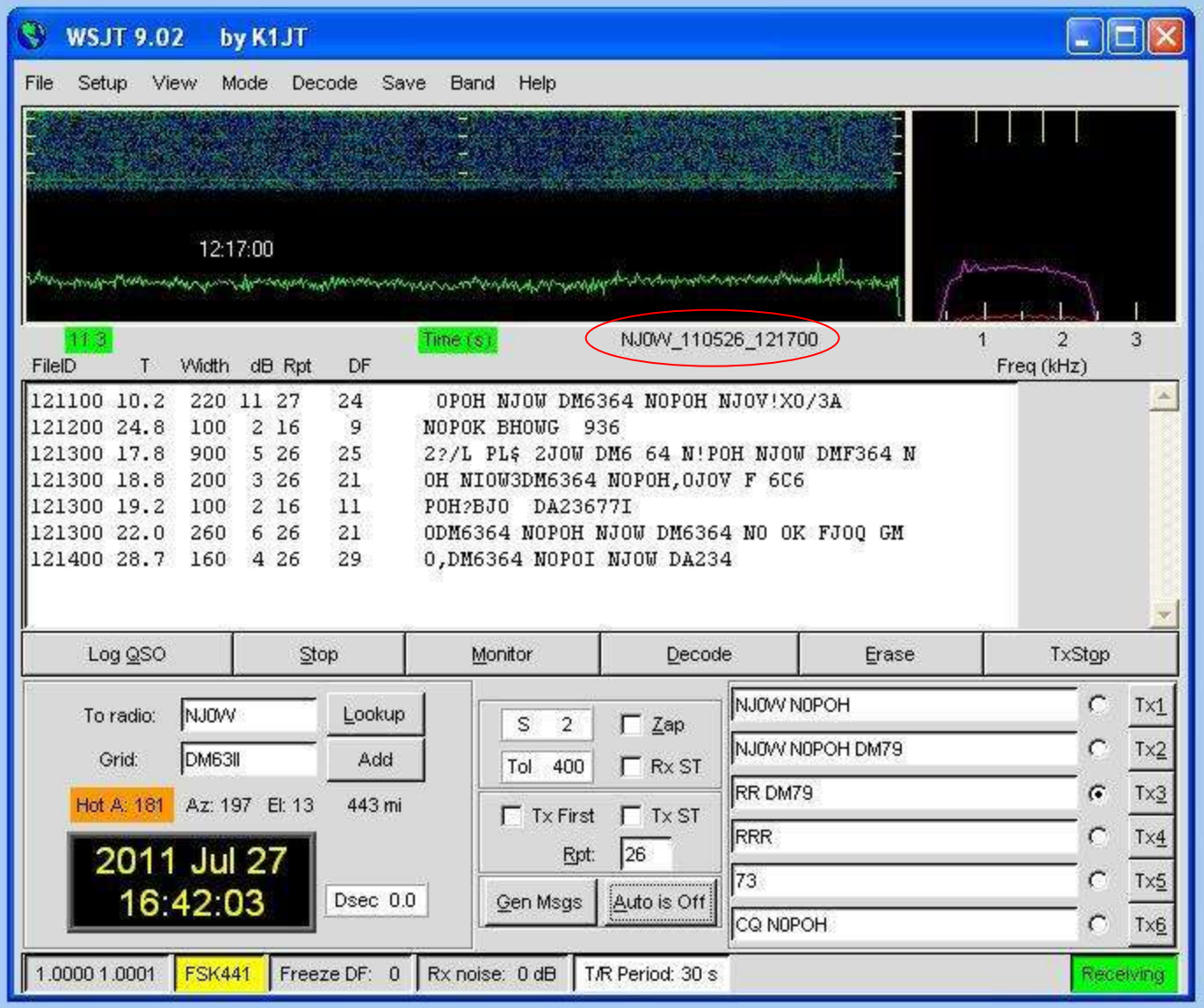

WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
12:11:00
3.5
Time (s)
NJ0W_110526_121100
1 2 3
FileID T Width dB Rpt DF Freq (kHz)
121100 10.2 220 11 27 24 OPOH NJ0W DM6364 N0POH NJ0V!X0/3A
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: NJ0W
Lookup
Grid: DM63ll
Add
Hot A: 181
Az: 197 El: 13
443 mi
2011 Jul 27
16:36:10
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is Off
NJ0W N0POH
Tx1
NJ0W N0POH DM79
Tx2
RR DM79
Tx3
RRR
Tx4
73
Tx5
CQ N0POH
Tx6
1.0001 1.0000
FSK441
Freeze DF: 0
Rx noise: -1 dB
T/R Period: 30 s
Receiving

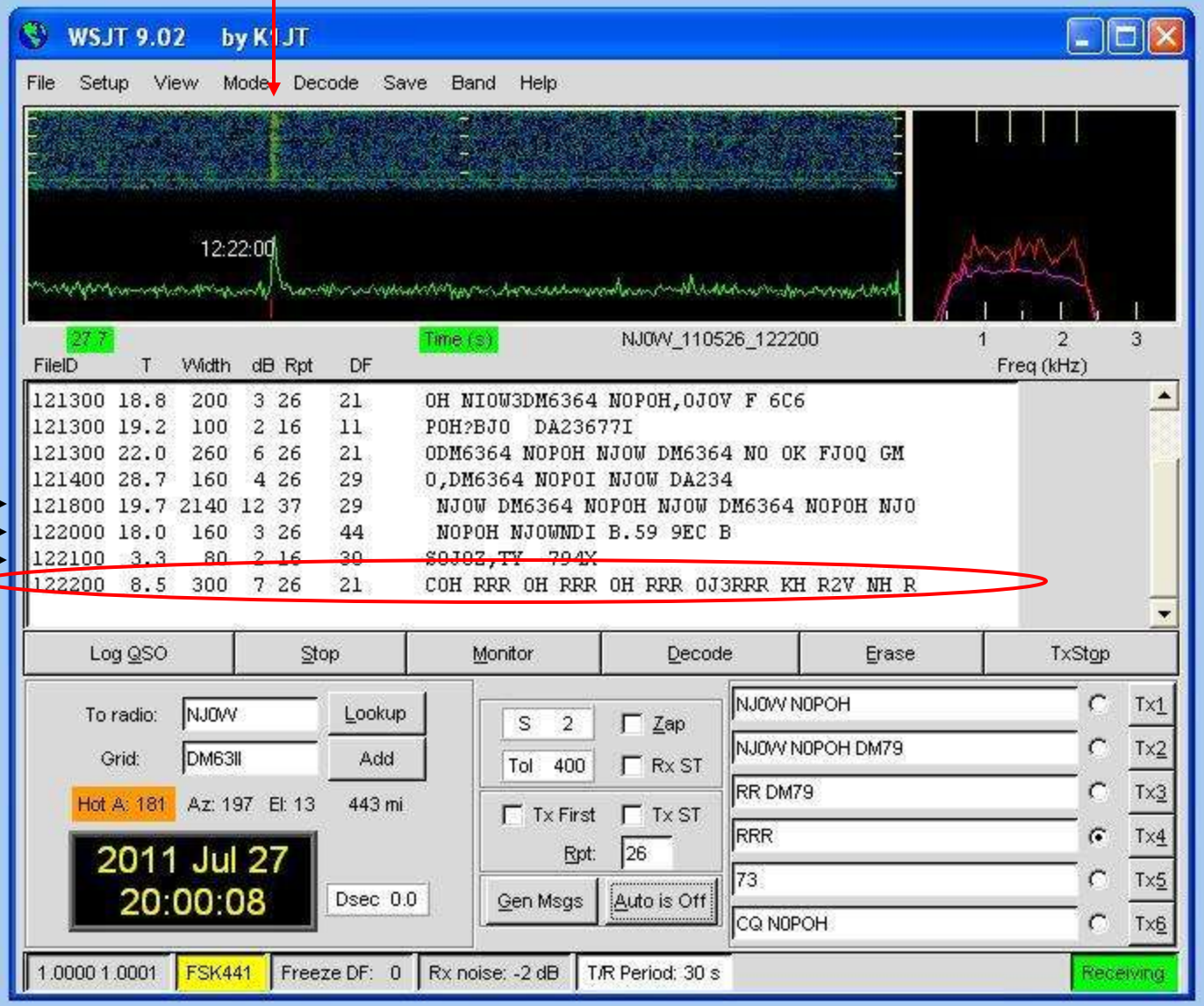

WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
12:11:00
3.5
Time (s)
NJ0W_110526_121100
1 2 3
FileID T Width dB Rpt DF
Freq (kHz)
121100 10.2 220 11 27 24 0P0H NJ0W DM6364 N0P0H NJ0V!X0/3A
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: NJ0W
Lookup
Grid: DM63ll
Add
Hot A: 181
Az: 197 El: 13 443 mi
2011 Jul 26
16:28:40
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is ON
NJ0W N0P0H
Tx1
NJ0W N0P0H DM79
Tx2
RR DM79
Tx3
RRR
Tx4
73 OH
Tx5
CQ N0P0H
Tx6
1.0000 0.9999
FSK441
Freeze DF: 0
Rx noise: 10 dB
T/R Period: 30 s
Txing: RR DM79

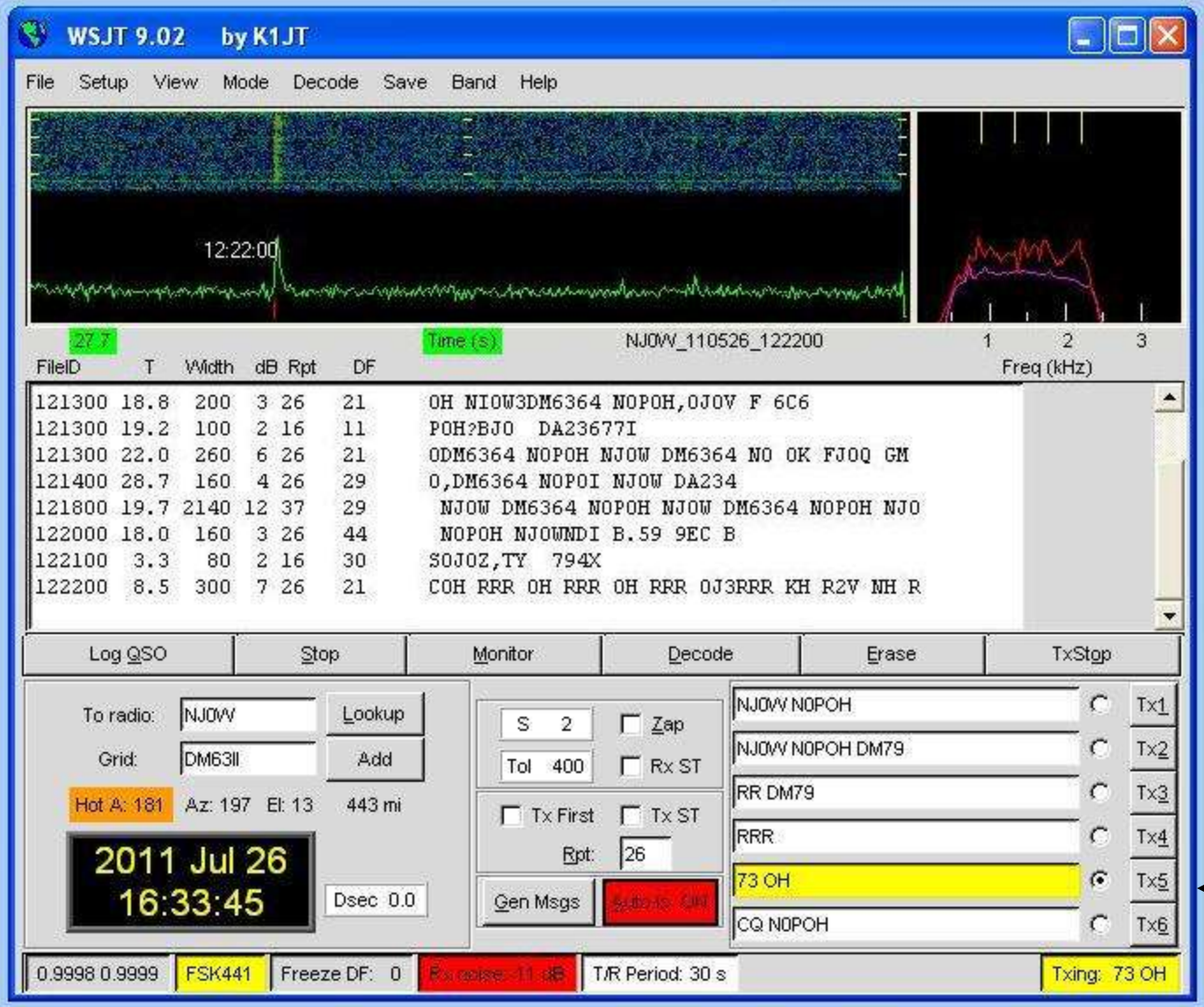

WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
12:12:00
0.6
Time (s)
NJ0W_110526_121200
1 2 3
FileID T Width dB Rpt DF
Freq (kHz)
121100 10.2 220 11 27 24 OPOH NJ0W DM6364 N0POH NJ0V!X0/3A
121200 24.8 100 2 16 9 N0POK BH0WG 936
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: NJ0W
Lookup
Grid: DM63ll
Add
Hot A: 181
Az: 197 El: 13
443 mi
2011 Jul 27
16:37:49
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is Off
NJ0W N0POH
Tx1
NJ0W N0POH DM79
Tx2
RR DM79
Tx3
RRR
Tx4
73
Tx5
CQ N0POH
Tx6
1.0000 1.0001
FSK441
Freeze DF: 0
Rx noise: -1 dB
T/R Period: 30 s
Receiving

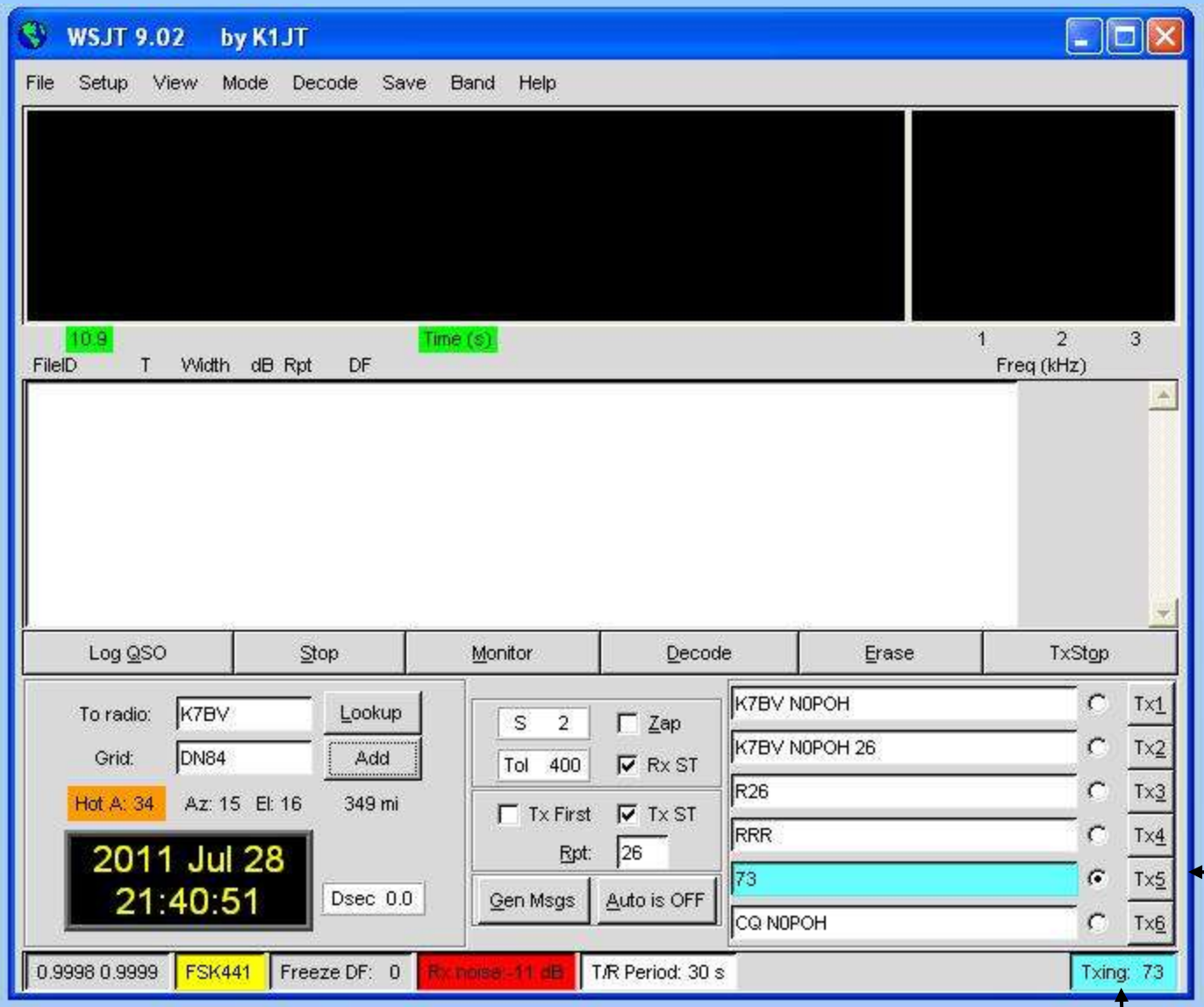

WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
12:13:00
4 2
Time (s)
NJ0W_110526_121300
1 2 3
FileID T Width dB Rpt DF Freq (kHz)
121100 10.2 220 11 27 24 OPOH NJOW DM6364 NOPOH NJOV!XO/3A
121200 24.8 100 2 16 9 NOPOK BHOWG 936
121300 17.8 900 5 26 25 2?/L PL$ 2JOW DM6 64 N!POH NJOW DMF364 N
121300 18.8 200 3 26 21 OH NIOW3DM6364 NOPOH,OJOV F 6C6
121300 19.2 100 2 16 11 POH?BJO DA23677I
121300 22.0 260 6 26 21 ODM6364 NOPOH NJOW DM6364 NO OK FJOQ GM
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: NJ0W
Grid: DM63ll
Lookup
Add
Hot A: 181
Az: 197 El: 13
443 mi
2011 Jul 27
16:39:01
Dsec 0.0
S 2
Tol 400
Zap
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is Off
NJ0W N0POH
NJ0W N0POH DM79
RR DM79
RRR
73
CQ N0POH
Tx1
Tx2
Tx3
Tx4
Tx5
Tx6
1.0000 1.0001
FSK441
Freeze DF: 0
Rx noise: -1 dB
T/R Period: 30 s
Receiving


WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
12:14:00
2:5
Time (s)
NJ0W_110526_121400
1 2 3
FileID T Width dB Rpt DF Freq (kHz)
121100 10.2 220 11 27 24 OPOH NJOW DM6364 NOPOH NJOV!XO/3A
121200 24.8 100 2 16 9 NOPOK BHOWG 936
121300 17.8 900 5 26 25 2?/L PL$ 2JOW DM6 64 N!POH NJOW DMF364 N
121300 18.8 200 3 26 21 OH NIOW3DM6364 NOPOH,OJOV F 6C6
121300 19.2 100 2 16 11 POH?BJO DA23677I
121300 22.0 260 6 26 21 ODM6364 NOPOH NJOW DM6364 NO OK FJOQ GM
121400 28.7 160 4 26 29 O,DM6364 NOPOI NJOW DA234
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: NJ0W
Lookup
Grid: DM63ll
Add
Hot A: 181
Az: 197 El: 13
443 mi
2011 Jul 27
16:40:22
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is Off
NJ0W N0POH
Tx1
NJ0W N0POH DM79
Tx2
RR DM79
Tx3
RRR
Tx4
73
Tx5
CQ N0POH
Tx6
1.0000 1.0000
FSK441
Freeze DF: 0
Rx noise: -1 dB
T/R Period: 30 s
Receiving

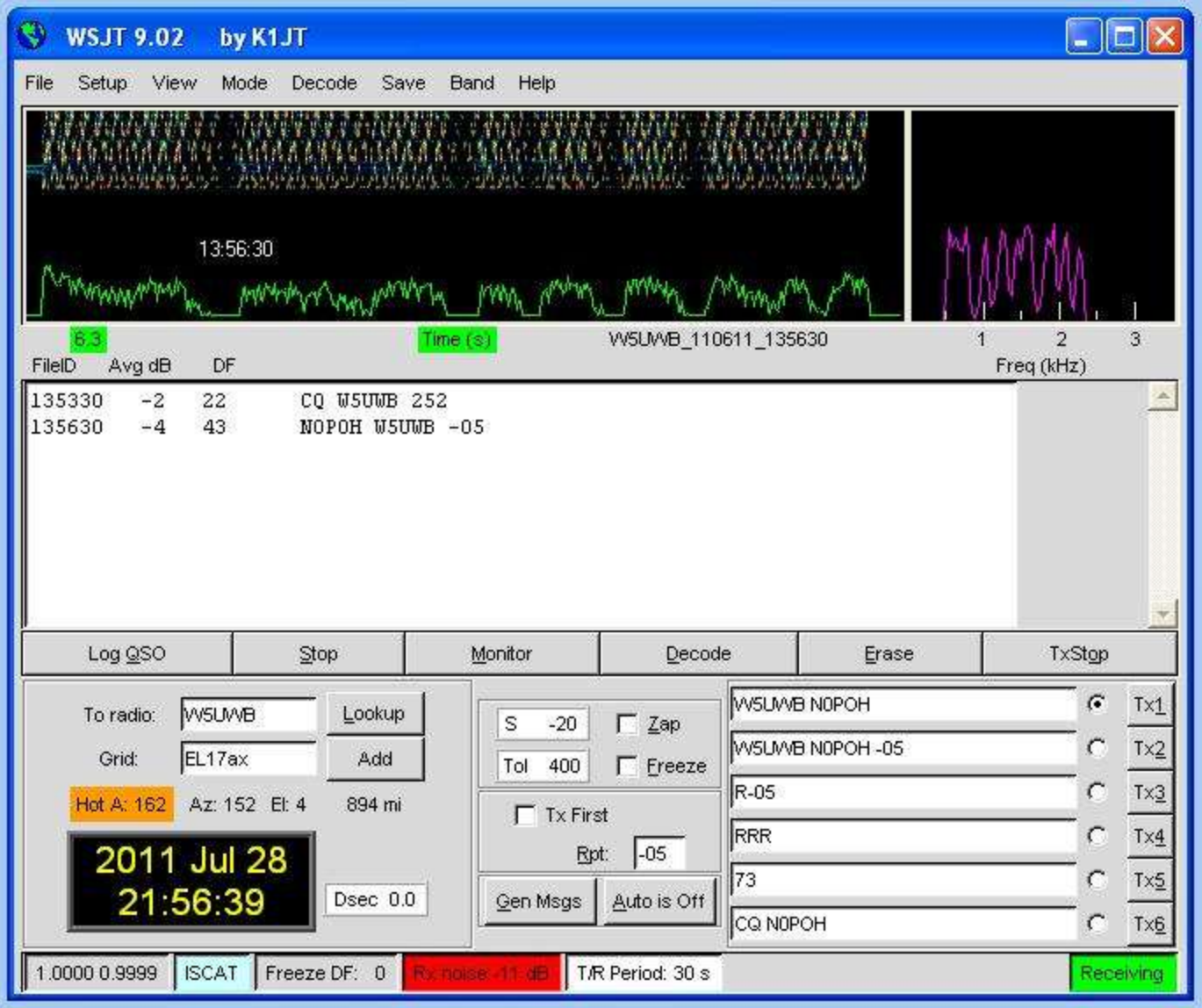

WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
12:17:00
Time (s)
NJ0W_110526_121700
1 2 3
Freq (kHz)
FileID T Width dB Rpt DF
121100 10.2 220 11 27 24 OPOH NJOW DM6364 NOPOH NJOV!XO/3A
121200 24.8 100 2 16 9 NOPOK BHOWG 936
121300 17.8 900 5 26 25 2?/L PL$ 2JOW DM6 64 N!POH NJOW DMF364 N
121300 18.8 200 3 26 21 OH NIOW3DM6364 NOPOH,OJOV F 6C6
121300 19.2 100 2 16 11 POH?BJO DA23677I
121300 22.0 260 6 26 21 ODM6364 NOPOH NJOW DM6364 NO OK FJOQ GM
121400 28.7 160 4 26 29 O,DM6364 NOPOI NJOW DA234
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: NJ0W
Lookup
Grid: DM63ll
Add
Hot A: 181
Az: 197 El: 13
443 mi
2011 Jul 27
16:42:03
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is Off
NJ0W N0POH
Tx1
NJ0W N0POH DM79
Tx2
RR DM79
Tx3
RRR
Tx4
73
Tx5
CQ N0POH
Tx6
1.0000 1.0001
FSK441
Freeze DF: 0
Rx noise: 0 dB
T/R Period: 30 s
Receiving

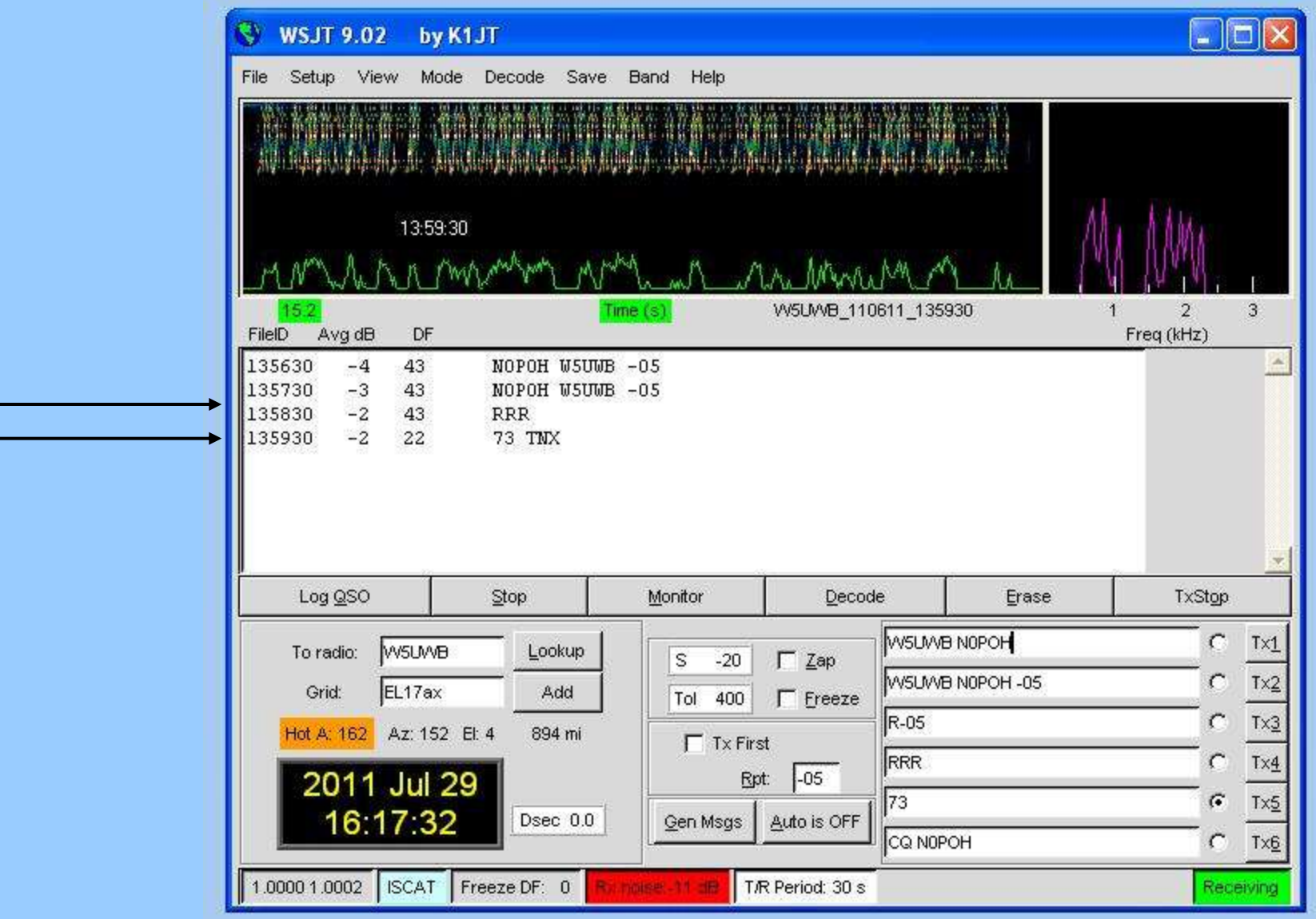

WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
12:22:00
27 7
Time (s)
NJ0W_110526_122200
1 2 3
FileID T Width dB Rpt DF Freq (kHz)
121300 18.8 200 3 26 21 OH NIOW3DM6364 NOPOH,OJOV F 6C6
121300 19.2 100 2 16 11 POH?BJO DA23677I
121300 22.0 260 6 26 21 ODM6364 NOPOH NJOW DM6364 NO OK FJOQ GM
121400 28.7 160 4 26 29 O,DM6364 NOPOI NJOW DA234
121800 19.7 2140 12 37 29 NJOW DM6364 NOPOH NJOW DM6364 NOPOH NJO
122000 18.0 160 3 26 44 NOPOH NJOWNDI B.59 9EC B
122100 3.3 80 2 16 30 $0J0Z,TY 794X
122200 8.5 300 7 26 21 COH RRR OH RRR OH RRR OJ3RRR KH R2V NH R
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: NJ0W
Grid: DM63ll
Lookup
Add
Hot A: 181
Az: 197 El: 13
443 mi
2011 Jul 27
20:00:08
Dsec 0.0
S 2
Tol 400
Zap
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is Off
NJ0W NOPOH
NJ0W NOPOH DM79
RR DM79
RRR
73
CQ NOPOH
Tx1
Tx2
Tx3
Tx4
Tx5
Tx6
1.0000 1.0001
FSK441
Freeze DF: 0
Rx noise: -2 dB
T/R Period: 30 s
Receiving

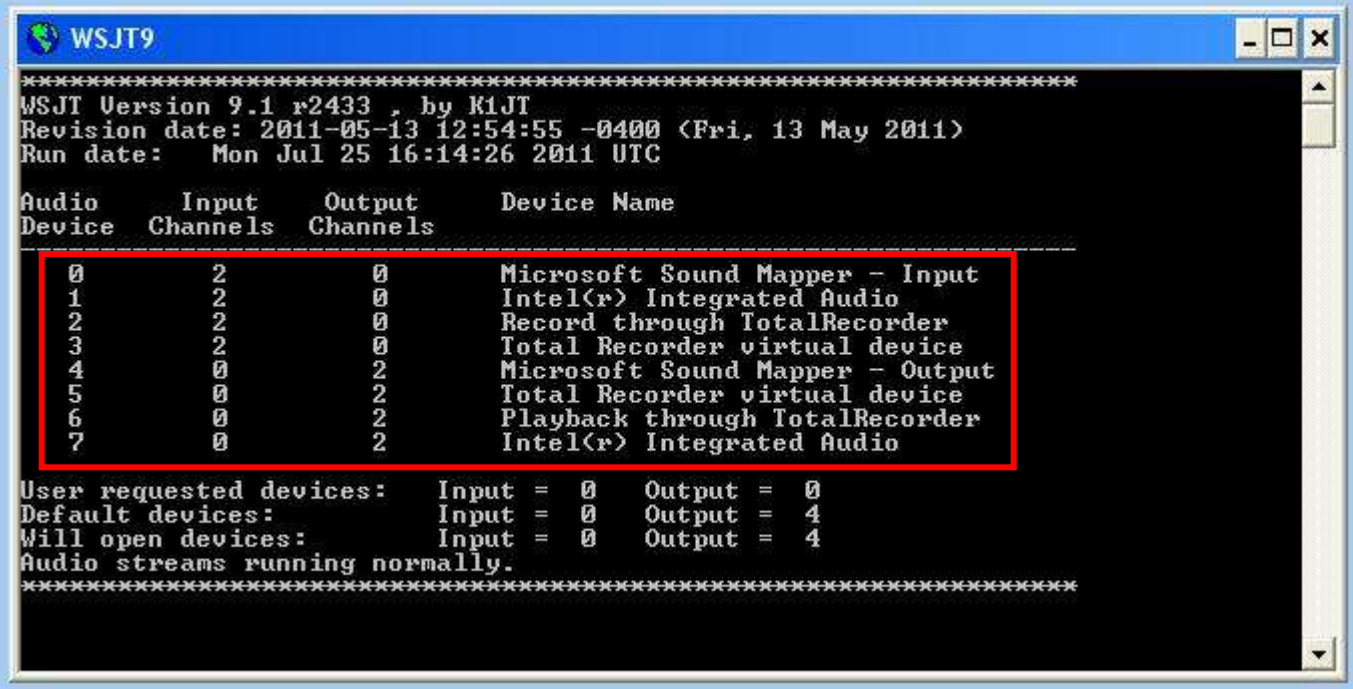

WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
12:22:00
27.7
Time (s)
NJ0W_110526_122200
1 2 3
Freq (kHz)
FileID T Width dB Rpt DF
121300 18.8 200 3 26 21 0H NI0W3DM6364 N0P0H,0J0V F 6C6
121300 19.2 100 2 16 11 P0H?BJ0 DA23677I
121300 22.0 260 6 26 21 0DM6364 N0P0H NJ0W DM6364 N0 0K FJ0Q GM
121400 28.7 160 4 26 29 0,DM6364 N0P0I NJ0W DA234
121800 19.7 2140 12 37 29 NJ0W DM6364 N0P0H NJ0W DM6364 N0P0H NJ0
122000 18.0 160 3 26 44 N0P0H NJ0WNDI B.59 9EC B
122100 3.3 80 2 16 30 S0J0Z,TY 794X
122200 8.5 300 7 26 21 C0H RRR 0H RRR 0H RRR 0J3RRR KH R2V NH R
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: NJ0W
Lookup
Grid: DM63ll
Add
Hot A: 181
Az: 197 El: 13
443 mi
2011 Jul 26
16:33:45
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
NJ0W N0P0H
NJ0W N0P0H DM79
RR DM79
RRR
73 0H
CQ N0P0H
Tx1
Tx2
Tx3
Tx4
Tx5
Tx6
0.9998 0.9999
FSK441
Freeze DF: 0
T/R Period: 30 s
Txing: 73 0H

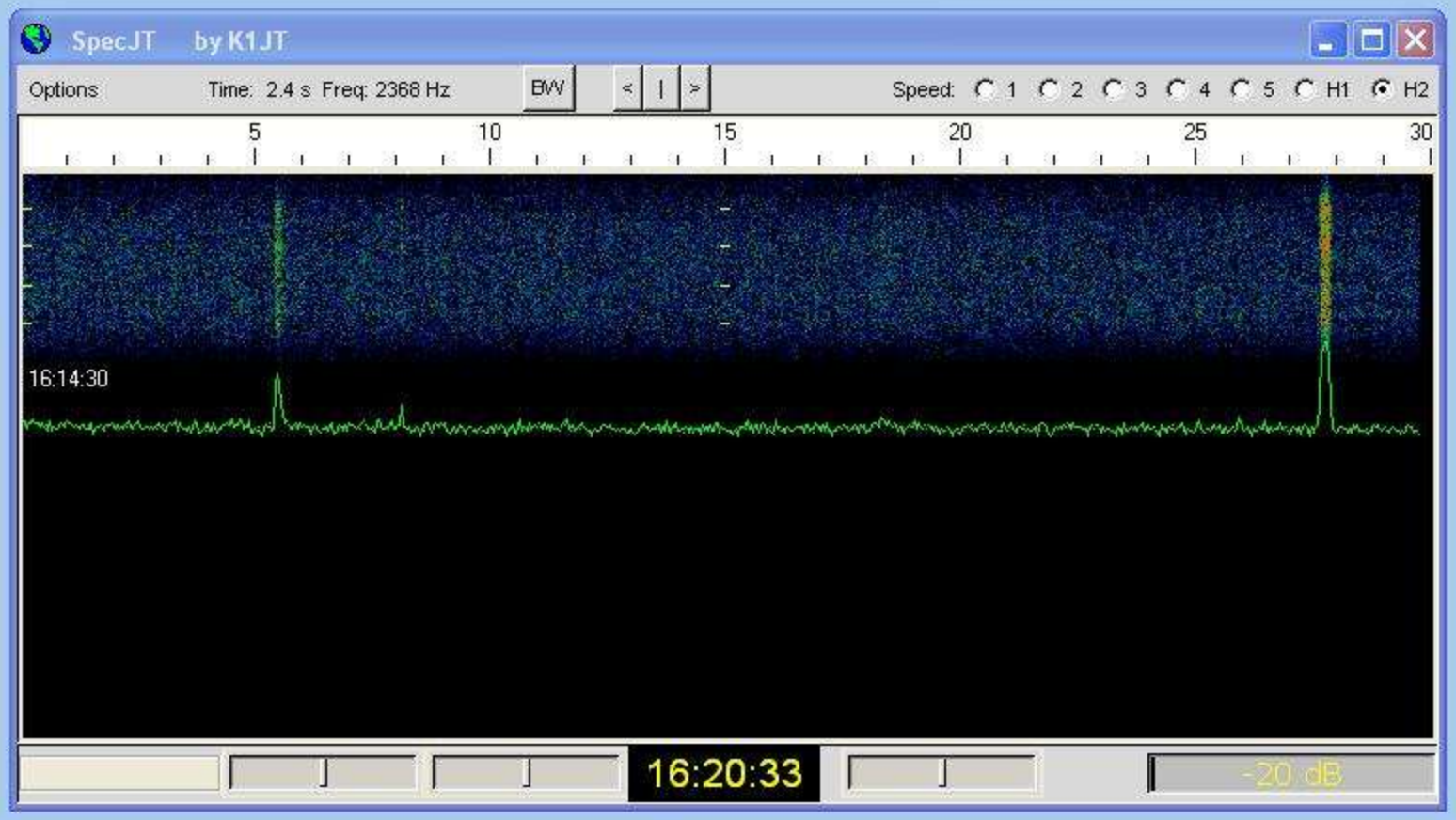

WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
10.9
Time (s)
1 2 3
FileID T Width dB Rpt DF
Freq (kHz)
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: K7BV
Lookup
Grid: DN84
Add
Hot A: 34
Az: 15 El: 16
349 mi
2011 Jul 28
21:40:51
Dsec 0.0
S 2
Zap
Tol 400
Rx ST
Tx First
Tx ST
Rpt: 26
Gen Msgs
Auto is OFF
K7BV N0POH
Tx1
K7BV N0POH 26
Tx2
R26
Tx3
RRR
Tx4
73
Tx5
CQ N0POH
Tx6
0.9998 0.9999
FSK441
Freeze DF: 0
Rx noise: -11 dB
T/R Period: 30 s
Txing: 73

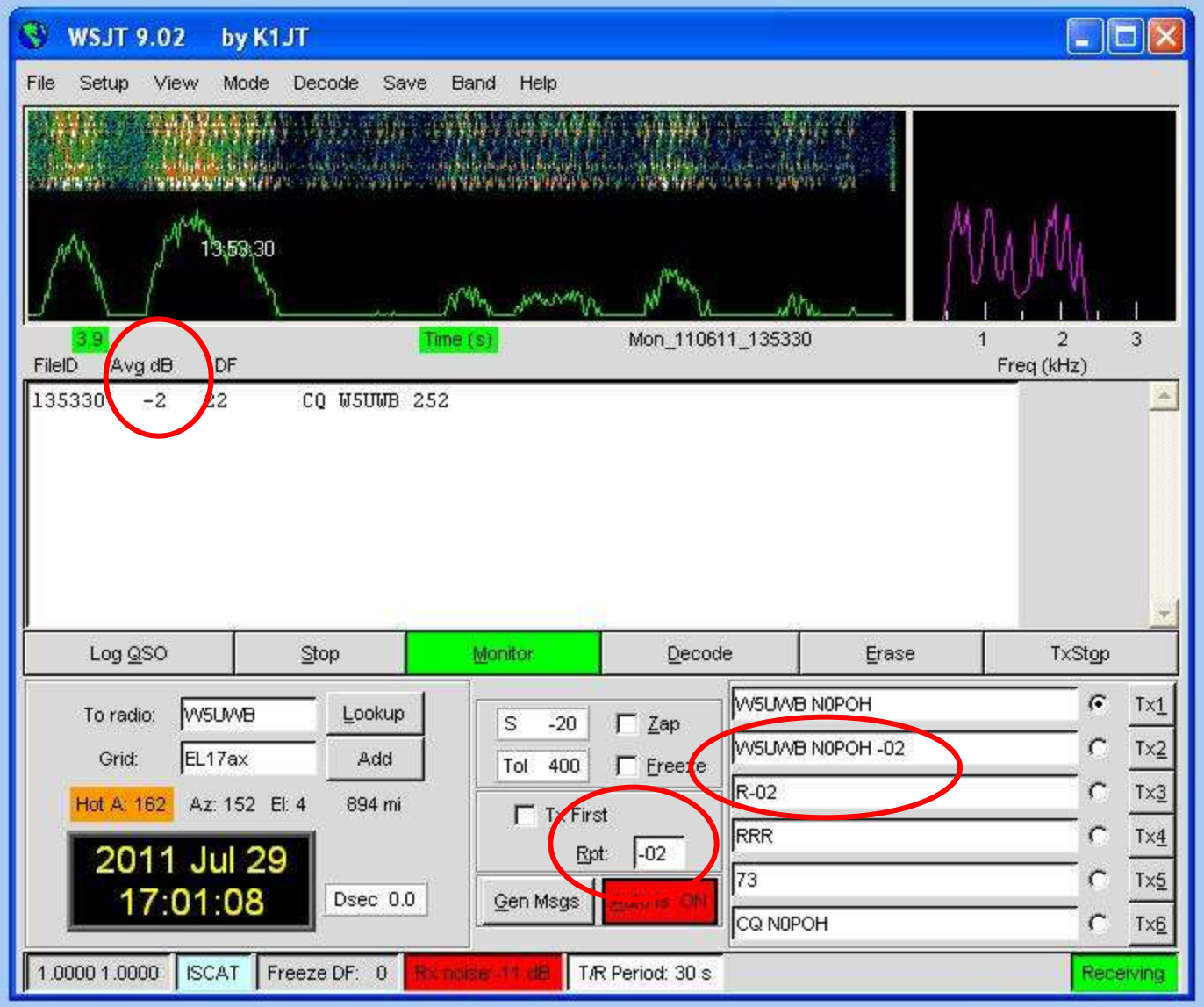
WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
13:53:30
0.6
Time (s)
Mon_110611_135330
1 2 3
FileID Avg dB DF
Freq (kHz)
135330 -2 22 CQ W5UWB 252
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: W5UWB
Lookup
Grid: EL17ax
Add
Hot A: 162
Az: 152 El: 4
894 mi
2011 Jul 28
21:53:17
Dsec 0.0
S -20
Zap
Tol 400
Freeze
Tx First
Rpt: -15
Gen Msgs
Auto is Off
W5UWB N0POH
W5UWB N0POH -15
R-15
RRR
73
CQ N0POH
Tx1
Tx2
Tx3
Tx4
Tx5
Tx6
1.0000 1.0000
ISCAT
Freeze DF: 0
Rx noise: -10 dB
T/R Period: 30 s
Receiving


WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
13:56:30
6.3
Time (s)
W5UWB_110611_135630
1 2 3
FileID Avg dB DF
Freq (kHz)
135330 -2 22 CQ W5UWB 252
135630 -4 43 N0POH W5UWB -05
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: W5UWB
Lookup
Grid: EL17ax
Add
Hot A: 162
Az: 152 El: 4
894 mi
2011 Jul 28
21:56:39
Dsec 0.0
S -20
Zap
Tol 400
Freeze
Tx First
Rpt: -05
Gen Msgs
Auto is Off
W5UWB N0POH
Tx1
W5UWB N0POH -05
Tx2
R-05
Tx3
RRR
Tx4
73
Tx5
CQ N0POH
Tx6
1.0000 0.9999
ISCAT
Freeze DF: 0
Rx noise -11 dB
T/R Period: 30 s
Receiving


WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
13:59:30
15.2
Time (s)
W5UWB_110611_135930
1 2 3
FileID Avg dB DF
Freq (kHz)
135630 -4 43 N0POH W5UWB -05
135730 -3 43 N0POH W5UWB -05
135830 -2 43 RRR
135930 -2 22 73 TNX
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: W5UWB
Lookup
Grid: EL17ax
Add
Hot A: 162
Az: 152 El: 4
894 mi
2011 Jul 29
16:17:32
Dsec 0.0
S -20
Zap
Tol 400
Freeze
Tx First
Rpt: -05
Gen Msgs
Auto is OFF
W5UWB N0POH
W5UWB N0POH -05
R-05
RRR
73
CQ N0POH
Tx1
Tx2
Tx3
Tx4
Tx5
Tx6
1.0000 1.0002
ISCAT
Freeze DF: 0
Rx noise: -11 dB
T/R Period: 30 s
Receiving


WSJT9
****
WSJT Version 9.1 r2433 , by K1JT
Revision date: 2011-05-13 12:54:55 -0400 (Fri, 13 May 2011)
Run date: Mon Jul 25 16:14:26 2011 UTC
Audio Device
Input Channels
Output Channels
Device Name
0 2 0 Microsoft Sound Mapper - Input
1 2 0 Intel(r) Integrated Audio
2 2 0 Record through TotalRecorder
3 2 0 Total Recorder virtual device
4 0 2 Microsoft Sound Mapper - Output
5 0 2 Total Recorder virtual device
6 0 2 Playback through TotalRecorder
7 0 2 Intel(r) Integrated Audio
User requested devices: Input = 0 Output = 0
Default devices: Input = 0 Output = 4
Will open devices: Input = 0 Output = 4
Audio streams running normally.
****


SpecJT by K1JT
Options
Time: 2.4 s Freq: 2368 Hz
BW
<
|
>
Speed: 1 2 3 4 5 H1 H2
5
10
15
20
25
30
16:14:30
16:20:33
-20 dB


WSJT 9.02 by K1JT
File Setup View Mode Decode Save Band Help
13:53:30
3.9
Time (s)
Mon_110611_135330
1 2 3
FileID Avg dB DF
Freq (kHz)
135330 -2 22 CQ W5UWB 252
Log QSO
Stop
Monitor
Decode
Erase
TxStop
To radio: W5UWB
Lookup
Grid: EL17ax
Add
Hot A: 162
Az: 152 El: 4
894 mi
2011 Jul 29
17:01:08
Dsec 0.0
S -20
Zap
Tol 400
Freeze
Tx First
Rpt: -02
Gen Msgs
W5UWB N0POH
W5UWB N0POH -02
R-02
RRR
73
CQ N0POH
Tx1
Tx2
Tx3
Tx4
Tx5
Tx6
1.0000 1.0000
ISCAT
Freeze DF: 0
T/R Period: 30 s
Receiving

Holder

Copies of this presentation will be posted at http://www.rmvhf.org later this month

Web Resources:

K1JT's Web Site http://www.physics.princeton.edu/pulsar/K1JT/
The *W S J T Group* Official Page http://www.ykc.com/wa5ufh/
Using WSJT for EME http://www.g4zfj.co.uk/
Ping Jockey Message Board http://www.pingjockey.net/
Make More Miles on VHF http://www.mmmonvhf.de/
High Speed Meteor Scatter http://www.qsl.net/w8wn/hscw/hscw.html

Thanks to these participants from wsjtgroup@yahoogroups.com
Doug Wetzel K7IP Barry Garratt KS7DX Toby Burnett MM0TOB David Schaubert NJ0W Bill VanAlstyne W5WVO John Butrovich W5UWB Charlie Calhoun, K5TTT Bruce Brackin N5SIX Rex Lehman WB8TDG Phil Krichbaum N0KE