

Using the JT65 Digital Mode

There are now many Digital Modes that we can use.

Some, not so popular, and finding someone using them is hard.

Some, more popular, allowing you to get into a QSO easier.

One is very popular, easy to find, and is there nearly 24 x 7.

That Digital Mode is called JT65

Using the JT65 Digital Mode

JT65 is a mode designed for “weak signal communications”.

Since we are getting down in the sunspot cycle, we are now having a lot of days where weak signals are the new normal.

There have been days where the only QSOs that cover any significant distance on 10, 15, or 20 meters are JT65 QSOs.

Using JT65, and running only 25 watts to a simple antenna, one can routinely work DX during the day and during the evenings on 40 meters and during the evenings on 80 meters.

That may contribute to the current popularity of JT65.

Using the JT65 Digital Mode

JT65 does not support any Rag Chewing.

JT65 QSOs are a lot like Contest QSO's, short and sweet.

The exchanges are brief, and contain no personal info.

But, unlike typical Contest QSOs, they are not Fast.

A “short and sweet” JT65 QSO takes 6 minutes.

You can't make it go any faster, and it could take longer.

Using the JT65 Digital Mode

JT65 QSO exchanges use a well defined format:

Minute 1: K3JZD calls CQ

Minute 2: P5AA answers K3JZD's CQ

Minute 3: K3JZD gives P5AA a Signal Report

Minute 4: P5AA gives K3JZD a Signal Report

Minute 5: K3JZD says 73

Minute 6: P5AA says 73

During each of those minutes, a very small packet of digital data is being transmitted repeatedly, for 46 seconds out of that minute. That is generally how your low powered transmissions make it there under weak conditions.

Using the JT65 Digital Mode

Using JT65 has been compared to watching grass grow.

Using JT65 has been compared to watching paint dry.

But, some have said that JT65 is like cocaine for amateurs . . .
. . . because it can become addictive.

It is easy to say, just this one more QSO and then I'll quit . . .
. . but you see another one that you want, and keep going.

After a while, you begin to think that it might be nice to get some
JT65 Mode WAS and JT65 Mode DXCC wallpaper.

Using the JT65 Digital Mode

Like all digital modes, there is hardware and software to set up.

Since no two of us have the same radios or computers. I will not be touching on the hardware requirements today.

The good news is that, unlike radios and computers, the software needed to use JT65 is all Free !!

I will show you screen shots of a couple that are available and then walk you through how a JT65 QSO works with one of them.

(I will discuss how you use JT65, not how or why JT65 works)

Using the JT65 Digital Mode

First, just a couple of things about the setup for JT65.

Set your radio to USB.

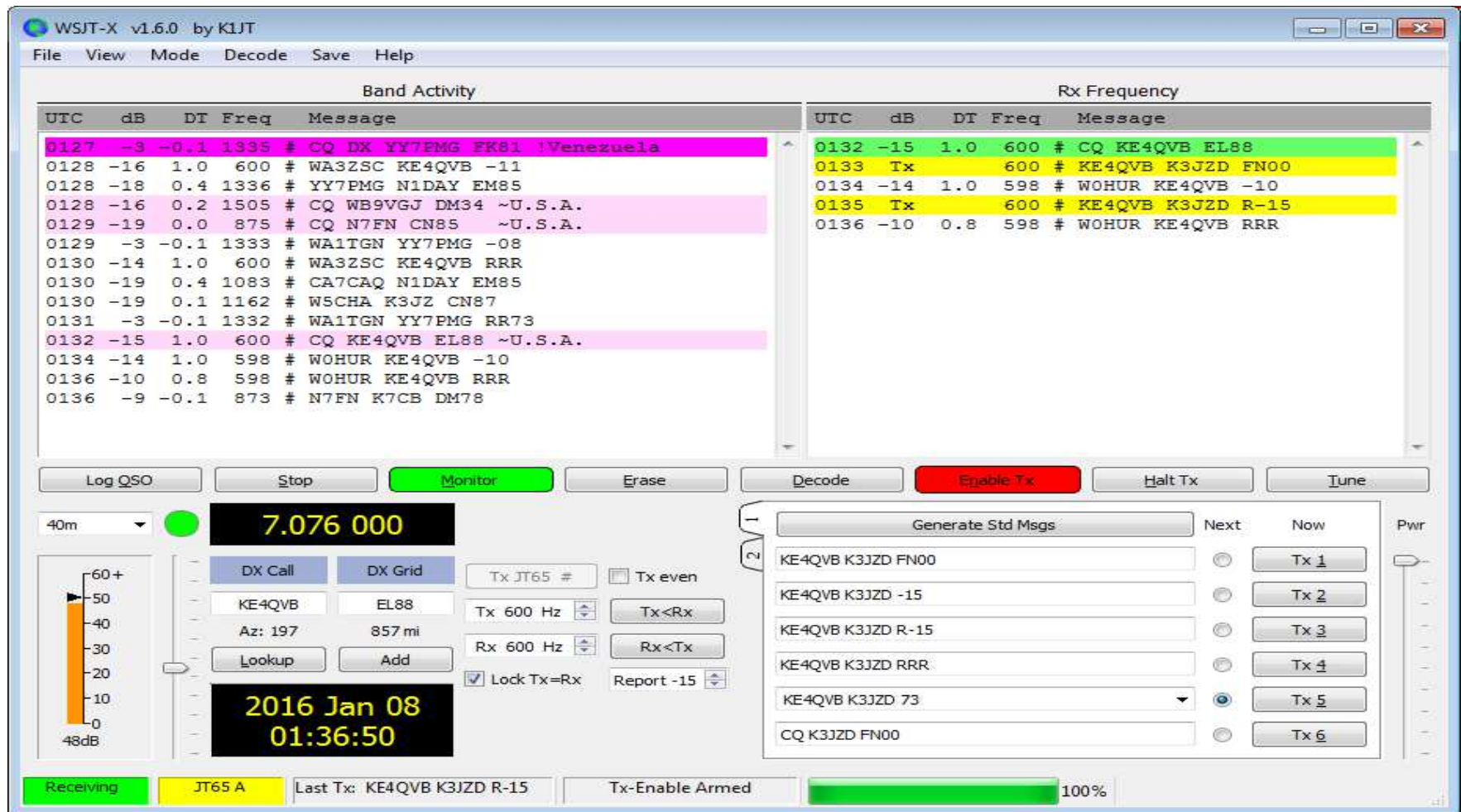
Set your radio to 3576, 7076, 14076, 21076, or 28076
(WARC Bands are used also, but not on the xx76 freqs)

Tuning is done in the JT65 Software, not with your radio.

Power is 1-25 watts. ALC setting is pretty critical.

Using the JT65 Digital Mode

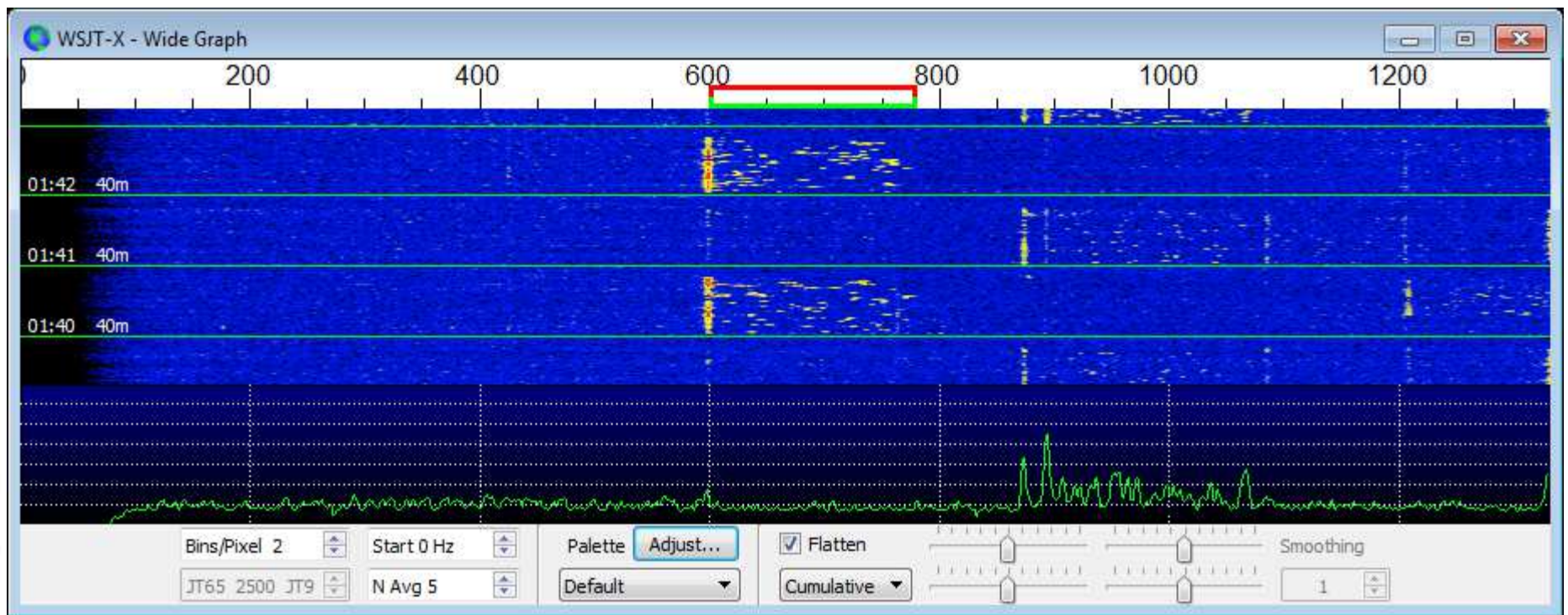
Here is what the WSJT-X Software User Interface looks like.



Using the JT65 Digital Mode

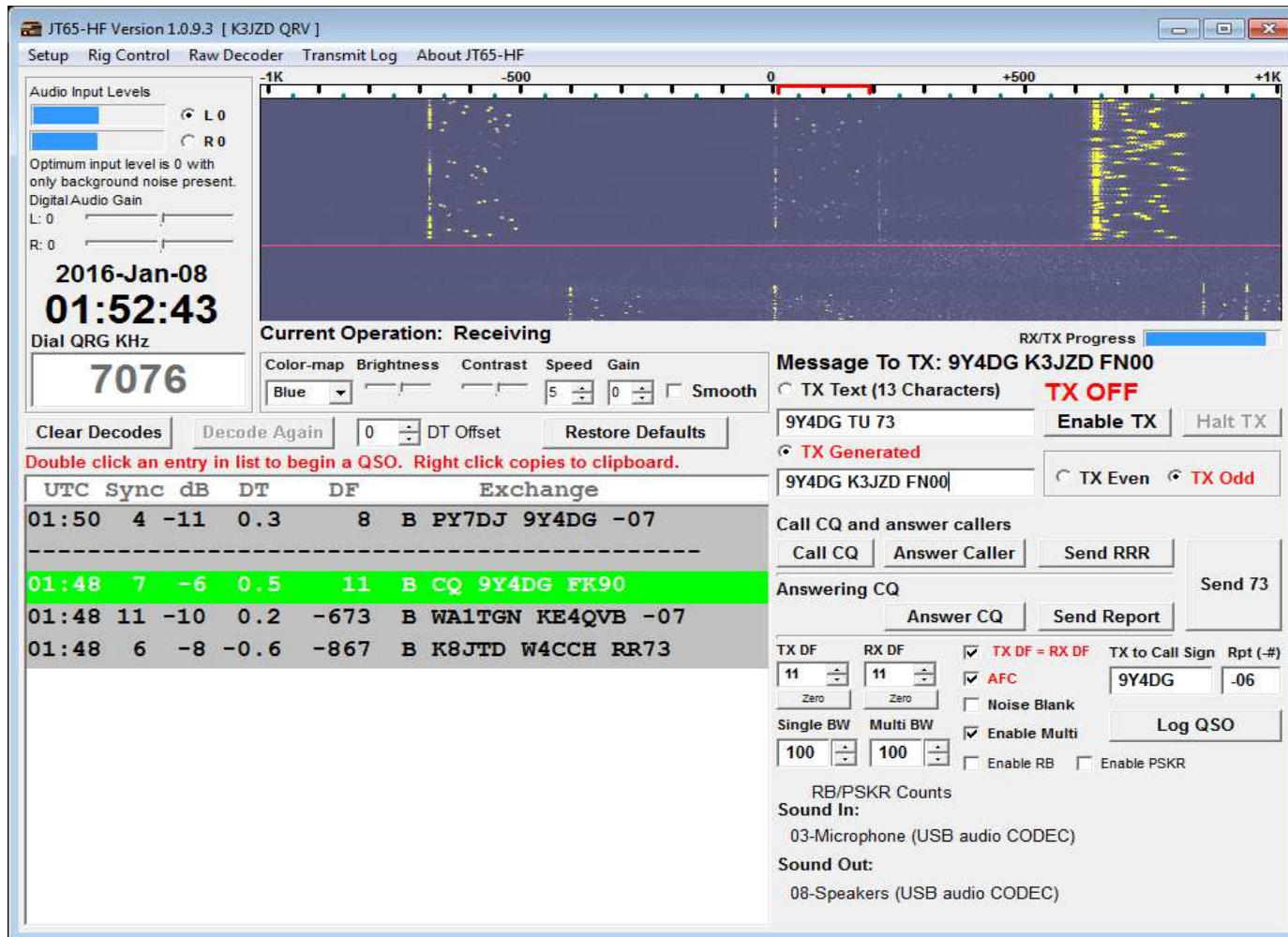
Here is what the WSJT-X Software User Interface looks like.

The Waterfall is in a separate Window



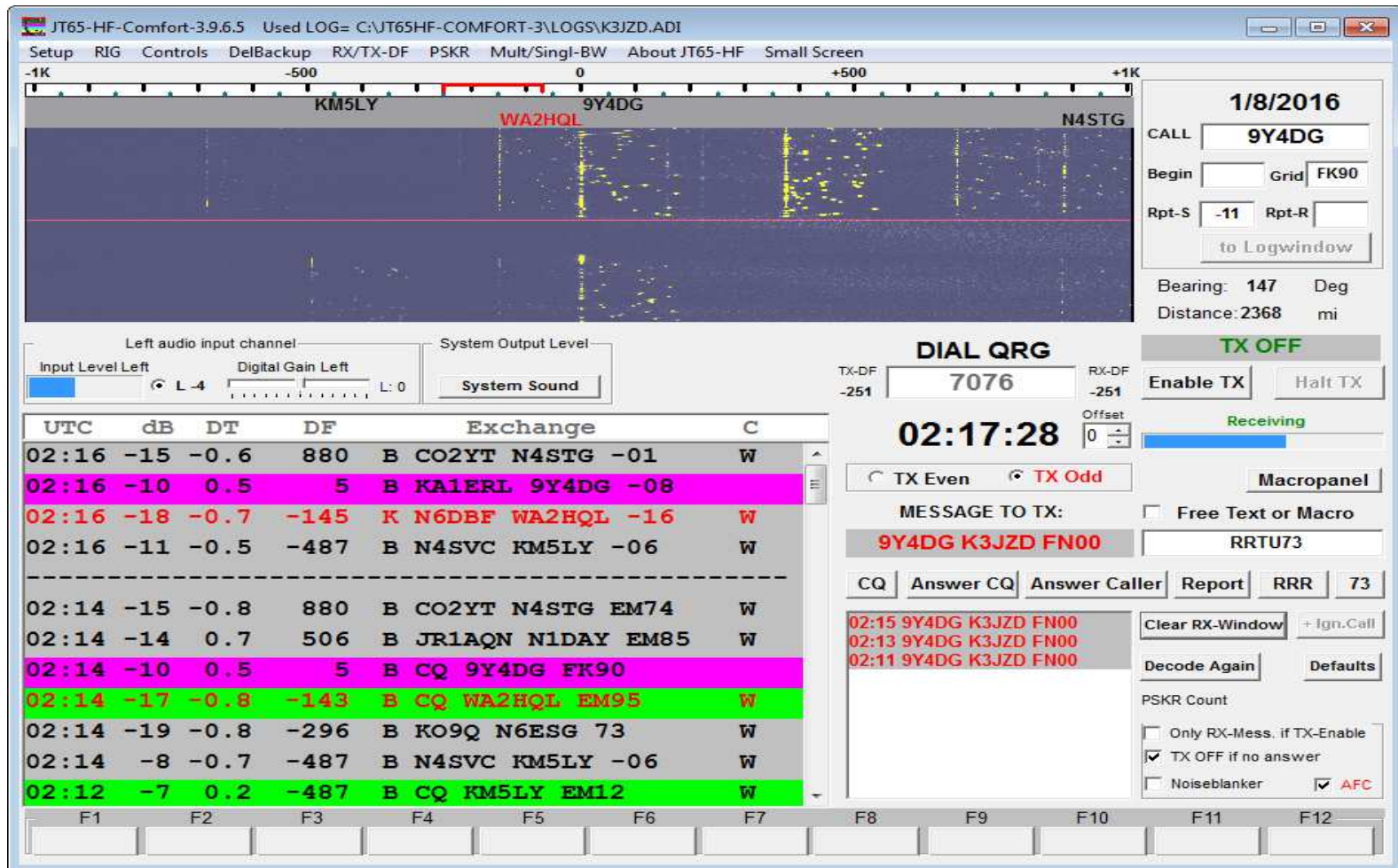
Using the JT65 Digital Mode

Here is what the JT65-HF Software User Interface looks like.



Using the JT65 Digital Mode

This is the JT65-HF-Comfort Software User Interface



Using the JT65 Digital Mode

A look at the actual Messages in an “Official” JT65 QSO:

CQ K3JZD FN00

K3JZD P5AA OK31

P5AA K3JZD -18

K3JZD P5AA R-20

P5AA K3JZD RRR

K3JZD P5AA 73

P5AA K3JZD 73

Using the JT65 Digital Mode

A look at the actual Messages in a Shortened JT65 QSO:

CQ K3JZD FN00

K3JZD P5AA OK31

P5AA K3JZD -18

K3JZD P5AA R-20

P5AA RRTU73

K3JZD GL 73

CQ K3JZD FN00

Using the JT65 Digital Mode

Variation in Last Message in a Shortened JT65 QSO:

TNX 73 HNY
RR TU GL 73
10W-DIPOLE
RR 73 LOTW
TU EQSL-LOTW
73 CONRAD GL
2W 3EL 73 WLM

Using the JT65 Digital Mode

Timing of the JT65 Messages

Only one Message Per Minute

Each Message is transmitted in the 1 to 46 second window.

This leaves you about 14 seconds to do your next step.

Often this next step can be setup in advance.

But often, you have to make a change to that next step.

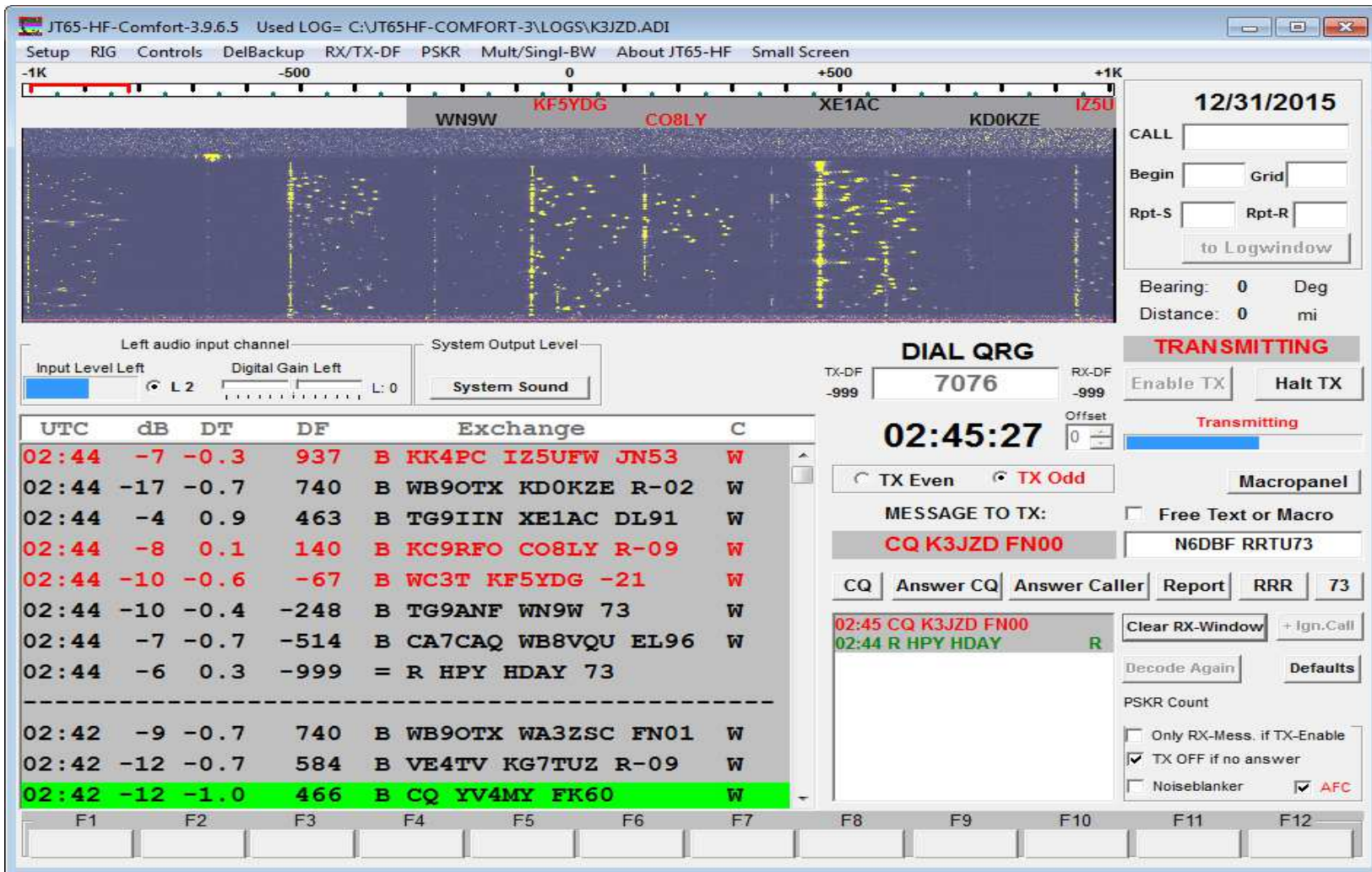
So, for 14 seconds of each minute you have to be awake !!

And, your PC Clock needs to be managed to keep it correct.

Using the JT65 Digital Mode

02:45 UTC

Start of a QSO where I Called CQ



07/18/16

Jody - K3JZD

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Using the JT65 Digital Mode

02:47 UTC Some Activity But No “Decode” - Calling CQ Again

JT65-HF-Comfort-3.9.6.5 Used LOG= C:\JT65HF-COMFORT-3\LOGS\K3JZD.ADI

Setup RIG Controls DelBackup RX/TX-DF PSKR Mult/Singl-BW About JT65-HF Small Screen

-1K -500 0 +500 +1K

N5KDV KF5YDG CO8LY XE1AC IZ5U

12/31/2015

CALL

Begin Grid

Rpt-S Rpt-R

to Logwindow

Bearing: 0 Deg

Distance: 0 mi

Left audio input channel

Input Level Left Digital Gain Left L: 0

System Output Level

System Sound

DIAL QRG

TX-DF -999 7076 RX-DF -999

Offset

TRANSMITTING

Enable TX Halt TX

Transmitting

02:47:21

TX Even TX Odd

MESSAGE TO TX:

Free Text or Macro

CQ K3JZD FN00 N6DBF RRTU73

CQ Answer CQ Answer Caller Report RRR 73

02:47 CQ K3JZD FN00

02:45 CQ K3JZD FN00

02:44 R HPY HDAY R

Clear RX-Window + Ign.Call

Decode Again Defaults

PSKR Count

☐ Only RX-Mess. if TX-Enable

☒ TX OFF if no answer

☐ Noiseblanker ☒ AFC

UTC	dB	DT	DF	Exchange	C
02:46	-8	-0.3	937	B KK4PC IZ5UFW JN53	W
02:46	-5	0.8	463	B TG9IIN XE1AC DL91	W
02:46	-7	0.2	140	B KC9RFO CO8LY RR73	W
02:46	-16	-0.6	-70	B WC3T KF5YDG RR73	W
02:46	-2	-0.6	-248	B TG9ANF N5KDV EM41	W
02:46	-8	-0.7	-514	K CA7CAQ WB8VQU EL96	W
02:44	-7	-0.3	937	B KK4PC IZ5UFW JN53	W
02:44	-17	-0.7	740	B WB9OTX KD0KZE R-02	W
02:44	-4	0.9	463	B TG9IIN XE1AC DL91	W
02:44	-8	0.1	140	B KC9RFO CO8LY R-09	W
02:44	-10	-0.6	-67	B WC3T KF5YDG -21	W

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12

Using the JT65 Digital Mode

02:49 UTC

Nothing Decoded Calling CQ Again

JT65-HF-Comfort-3.9.6.5 Used LOG= C:\JT65HF-COMFORT-3\LOGS\K3JZD.ADI

Setup RIG Controls DelBackup RX/TX-DF PSKR Mult/Singl-BW About JT65-HF Small Screen

-1K -500 0 +500 +1K

WB8VQU N5KDV CO8LY N4UQM KC5YSN KG5INX IZ5U

12/31/2015

CALL

Begin Grid

Rpt-S Rpt-R

to Logwindow

Bearing: 0 Deg

Distance: 0 mi

Left audio input channel

Input Level Left Digital Gain Left L: 0

System Output Level System Sound

TX-DF -999 RX-DF -999

DIAL QRG 7076

Offset 0

TX Even TX Odd

MESSAGE TO TX:

CQ K3JZD FN00

CQ Answer CQ Answer Caller Report RRR 73

02:49 CQ K3JZD FN00

02:47 CQ K3JZD FN00

02:45 CQ K3JZD FN00

02:44 R HPY HDAY R

Clear RX-Window + Ign. Call

Decode Again Defaults

PSKR Count

☐ Only RX-Mess. if TX-Enable

☒ TX OFF if no answer

☐ Noiseblanker ☒ AFC

UTC	dB	DT	DF	Exchange	C
02:48	-11	-0.1	937	B KK4PC IZ5UFW R-21	W
02:48	-10	-0.0	738	B WB9OTX KG5INX EM20	W
02:48	-13	-0.6	587	K VE4TV KC5YSN R-18	W
02:48	-8	-0.3	374	B WB9VGJ N4UQM R-13	W
02:48	-5	0.3	140	B CQ CO8LY FL20	W
02:48	-3	-0.5	-248	B TG9ANF N5KDV EM41	W
02:48	-11	-0.5	-514	B CA7CAQ WB8VQU EL96	W
02:46	-8	-0.3	937	B KK4PC IZ5UFW JN53	W
02:46	-5	0.8	463	B TG9IIN XE1AC DL91	W
02:46	-7	0.2	140	B KC9RFO CO8LY RR73	W
02:46	-16	-0.6	-70	B WC3T KF5YDG RR73	W

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12

07/18/16

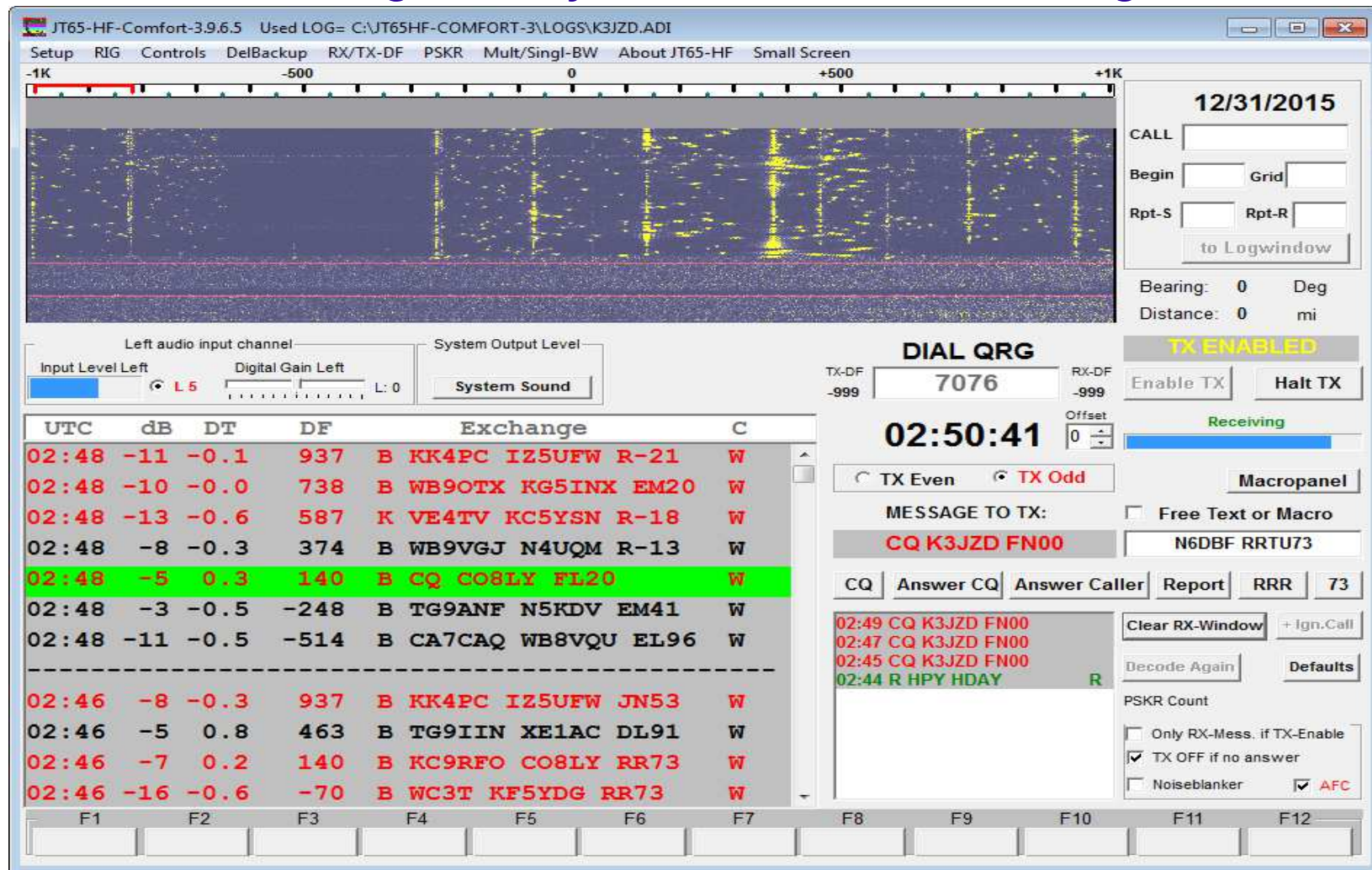
Jody - K3JZD

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Using the JT65 Digital Mode

02:50 UTC

Strong Activity On Waterfall – Getting a Call



Using the JT65 Digital Mode

02:51 UTC WA3ZSC Called Me (DEL?) – Giving his Report

JT65-HF-Comfort-3.9.6.5 Used LOG= C:\JT65HF-COMFORT-3\LOGS\K3JZD.ADI

Setup RIG Controls DelBackup RX/TX-DF PSKR Mult/Singl-BW About JT65-HF Small Screen

-1K -500 0 +500 +1K

WB8VQU KF5YDG CO8LY EU1FQ N4UQM IZ5U

12/31/2015
CALL WA3ZSC
Begin Grid FN01
Rpt-S -11 Rpt-R
to Logwindow
Bearing: 342 Deg
Distance: 42 mi

Left audio input channel
Input Level Left L2 Digital Gain Left L:0
System Output Level System Sound

DIAL QRG 7076
TX-DF -999 RX-DF -999
Offset 0
TX Even TX Odd
MESSAGE TO TX: Free Text or Macro
WA3ZSC K3JZD -11 N6DBF RRTU73
CQ Answer CQ Answer Caller Report RRR 73
02:51 WA3ZSC K3JZD -11
Clear RX-Window + Ign. Call
Decode Again Defaults
PSKR Count
Only RX-Mess. if TX-Enable
TX OFF if no answer
Noiseblanker AFC

UTC	dB	DT	DF	Exchange	C
02:50	-9	-0.1	937	B KK4PC IZ5UFW RRR	W
02:50	-6	0.1	738	B HAPPY N Y 73	
02:50	-18	-0.7	587	B HAPPY NYR 73	
02:50	-18	-0.8	463	K EU1FQ RRR 73	
02:50	-6	-0.3	374	B WB9VGJ N4UQM 73	W
02:50	-6	0.3	140	B CQ CO8LY FL20	W
02:50	-12	-0.4	-70	B CQ KF5YDG EM20	W
02:50	-9	-0.5	-250	B TG9ANF WB8VQU EL96	W
02:50	-15	-0.5	-821	B TG9IIN KG9DW EN50	W
02:50	-11	-0.5	-999	= K3JZD WA3ZSC FN01	W
02:48	-11	-0.1	937	B KK4PC IZ5UFW R-21	W

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12

07/18/16

Jody - K3JZD

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Using the JT65 Digital Mode

02:52 UTC WA3ZSC Sent Me R-Report - Queued Response

JT65-HF-Comfort-3.9.6.5 Used LOG= C:\JT65HF-COMFORT-3\LOGS\K3JZD.ADI

Setup RIG Controls DelBackup RX/TX-DF PSKR Mult/Singl-BW About JT65-HF Small Screen

-1K -500 0 +500 +1K

WA3ZSC KG9DW N5KDV KF5YDG CO8LY YV4MY W0MHP KG5INX IZ5U

12/31/2015
CALL WA3ZSC
Begin 0252 Grid FN01
Rpt-S -11 Rpt-R -08
to Logwindow
Bearing: 342 Deg
Distance: 42 mi

TX ENABLED
TX-DF -999 7076 RX-DF -999
Offset 0
TX Even TX Odd
MESSAGE TO TX: ☒ Free Text or Macro
WA3ZSC RRTU73 WA3ZSC RRTU73
CQ Answer CQ Answer Caller Report RRR 73
02:52 K3JZD WA3ZSC R-08
02:51 WA3ZSC K3JZD -11
Clear RX-Window + Ign.Call
Decode Again Defaults
PSKR Count
☐ Only RX-Mess. if TX-Enable
☒ TX OFF if no answer
☐ Noiseblanker ☒ AFC

Left audio input channel
Input Level Left Digital Gain Left L: 2 L: 0
System Output Level
System Sound

UTC	dB	DT	DF	Exchange	C
02:52	-11	-0.3	937	B KK4PC IZ5UFW 73	W
02:52	-9	-0.2	738	B CQ KG5INX EM20	W
02:52	-12	-0.3	584	B VE4TV W0MHP DM78	W
02:52	-7	-1.0	460	B UT2IW YV4MY -12	W
02:52	-9	0.1	140	B CQ CO8LY FL20	W
02:52	-17	-0.6	-67	B CQ KF5YDG EM20	W
02:52	-3	-0.6	-248	B TG9ANF N5KDV EM41	W
02:52	-10	-0.7	-678	B I1RJP KG9DW EN50	W
02:52	-6	-0.7	-996	= K3JZD WA3ZSC R-08	W

02:50	-9	-0.1	937	B KK4PC IZ5UFW RRR	W
02:50	-6	0.1	738	B HAPPY N Y 73	

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12

07/18/16

Jody - K3JZD

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Using the JT65 Digital Mode

02:53 UTC Sending My Custom Abbreviated RRTU73

JT65-HF-Comfort-3.9.6.5 Used LOG= C:\JT65HF-COMFORT-3\LOGS\K3JZD.ADI

Setup RIG Controls DelBackup RX/TX-DF PSKR Mult/Singl-BW About JT65-HF Small Screen

-1K -500 0 +500 +1K

N5KDV KF5YDG CO8LY YV4MY W0MHP KG5INX IZ5U

12/31/2015

CALL WA3ZSC

Begin 0252 Grid FN01

Rpt-S -11 Rpt-R -08

to Logwindow

Bearing: 342 Deg

Distance: 42 mi

Left audio input channel

Input Level Left Digital Gain Left

System Output Level

System Sound

TX-DF -999 RX-DF -999

DIAL QRG 7076

Offset 0

TRANSMITTING

Enable TX Halt TX

Transmitting

TX Even TX Odd

MESSAGE TO TX: Free Text or Macro

WA3ZSC RRTU73 WA3ZSC RRTU73

CQ Answer CQ Answer Caller Report RRR 73

02:53 WA3ZSC RRTU73

02:52 K3JZD WA3ZSC R-08

02:51 WA3ZSC K3JZD -11

Clear RX-Window + Ign.Call

Decode Again Defaults

PSKR Count

Only RX-Mess. if TX-Enable

TX OFF if no answer

Noiseblanker AFC

UTC	dB	DT	DF	Exchange	C
02:52	-11	-0.3	937	B KK4PC IZ5UFW 73	W
02:52	-9	-0.2	738	B CQ KG5INX EM20	W
02:52	-12	-0.3	584	B VE4TV W0MHP DM78	W
02:52	-7	-1.0	460	B UT2IW YV4MY -12	W
02:52	-9	0.1	140	B CQ CO8LY FL20	W
02:52	-17	-0.6	-67	B CQ KF5YDG EM20	W
02:52	-3	-0.6	-248	B TG9ANF N5KDV EM41	W
02:52	-10	-0.7	-678	B I1RJP KG9DW EN50	W
02:52	-6	-0.7	-996	= K3JZD WA3ZSC R-08	W
02:50	-9	-0.1	937	B KK4PC IZ5UFW RRR	W
02:50	-6	0.1	738	B HAPPY N Y 73	

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12

07/18/16

Jody - K3JZD

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Using the JT65 Digital Mode

02:55 UTC His 73 – Clicked [to Logwindow] – Data Cleared

JT65-HF-Comfort-3.9.6.5 Used LOG= C:\JT65HF-COMFORT-3\LOGS\K3JZD.ADI

Setup RIG Controls DelBackup RX/TX-DF PSKR Mult/Singl-BW About JT65-HF Small Screen

-1K -500 0 +500 +1K

KF5YDG UT2IW W0MHP

12/31/2015

CALL

Begin Grid

Rpt-S Rpt-R

to Logwindow

Bearing: 0 Deg

Distance: 0 mi

TX ENABLED

Enable TX Halt TX

Receiving

DIAL QRG

TX-DF -999 7076 RX-DF -999

Offset 0

02:55:32

TX Even TX Odd

MESSAGE TO TX: ☐ Free Text or Macro

CQ K3JZD FN00 WA3ZSC RRTU73

CQ Answer CQ Answer Caller Report RRR 73

Clear RX-Window + Ign.Call

Decode Again Defaults

PSKR Count

☐ Only RX-Mess. if TX-Enable

☒ TX OFF if no answer

☐ Noiseblanker ☒ AFC

Left audio input channel

Input Level Left Digital Gain Left L: 5 L: 0

System Output Level System Sound

UTC	dB	DT	DF	Exchange	C
02:54	-13	-0.5	581	B VE4TV W0MHP R-16	W
02:54	-10	-1.2	460	B UT2IW RRR 73	W
02:54	-11	-0.7	-67	B CQ KF5YDG EM20	W
02:54	-15	-0.8	-476	B CQ KV4TE EM73	W
02:54	-7	-0.1	-608	B CQ CO8LY FL20	W
02:54	-5	-0.8	-996	= K3JZD WA3ZSC 73	W
02:52	-11	-0.3	937	B KK4PC IZ5UFW 73	W
02:52	-9	-0.2	738	B CQ KG5INX EM20	W
02:52	-12	-0.3	584	B VE4TV W0MHP DM78	W
02:52	-7	-1.0	460	B UT2IW YV4MY -12	W
02:52	-9	0.1	140	B CQ CO8LY FL20	W

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12

07/18/16

Jody - K3JZD

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Using the JT65 Digital Mode

02:55 UTC What is Known From the QSO is in the Local Log

JT65-HF Log View Version 1.9.8.1 Total QSO's in log: 424

Logfile: C:\jt65hf-comfort-3\Logs\k3jzd.adi

	Call	Band	Date	Time_on	Time_off	Freq	RST_sent	RST_rcvd	Grid
▶	WA3ZSC	40M	2015-12-31	02:52	02:55	7.076000	-11	-08	FN01
	N6DBF	40M	2015-12-31	02:42	02:43	7.076000	-02	-14	DM13
	WC3T	40M	2015-12-31	02:34	02:35	7.076000	-17	-01	FN20
	KG5INX	40M	2015-12-31	02:29	02:29	7.076000	-14	-14	EM20
	WA1HEW	40M	2015-12-31	02:15	02:15	7.076000	-04	-14	FM19
	N3EEI	40M	2015-12-31	02:02	02:03	7.076000	-11	-06	FM19
	W5NZ	40M	2015-12-31	01:46	01:46	7.076000	-03	-01	EM62
	KA1ERL	40M	2015-12-31	01:35	01:36	7.076000	-06	-09	FN41
	F4GBD	40M	2015-12-30	23:10	23:11	7.076000	-15	-11	JN05
	DL9ZAD	40M	2015-12-30	22:57	22:57	7.076000	-17	-20	JN49
	KA0UNB	40M	2015-12-30	22:47	22:48	7.076000	-09	-09	EN11
	N4DLT	40M	2015-12-30	22:37	22:38	7.076000	-06	-05	EM95
	W6DPD	20M	2015-12-30	22:22	22:23	14.076000	-08	-12	DM06
	CO8LY	15M	2015-12-30	22:00	22:03	21.076000	-01	-07	FL20
	PY4WL	15M	2015-12-30	21:51	21:54	21.076000	-08	-11	GH61
	K7TBM	15M	2015-12-30	20:30	20:32	21.076000	-10	-21	CN87
	W4BWA	15M	2015-12-30	20:20	20:20	21.076000	-08	-08	EM08

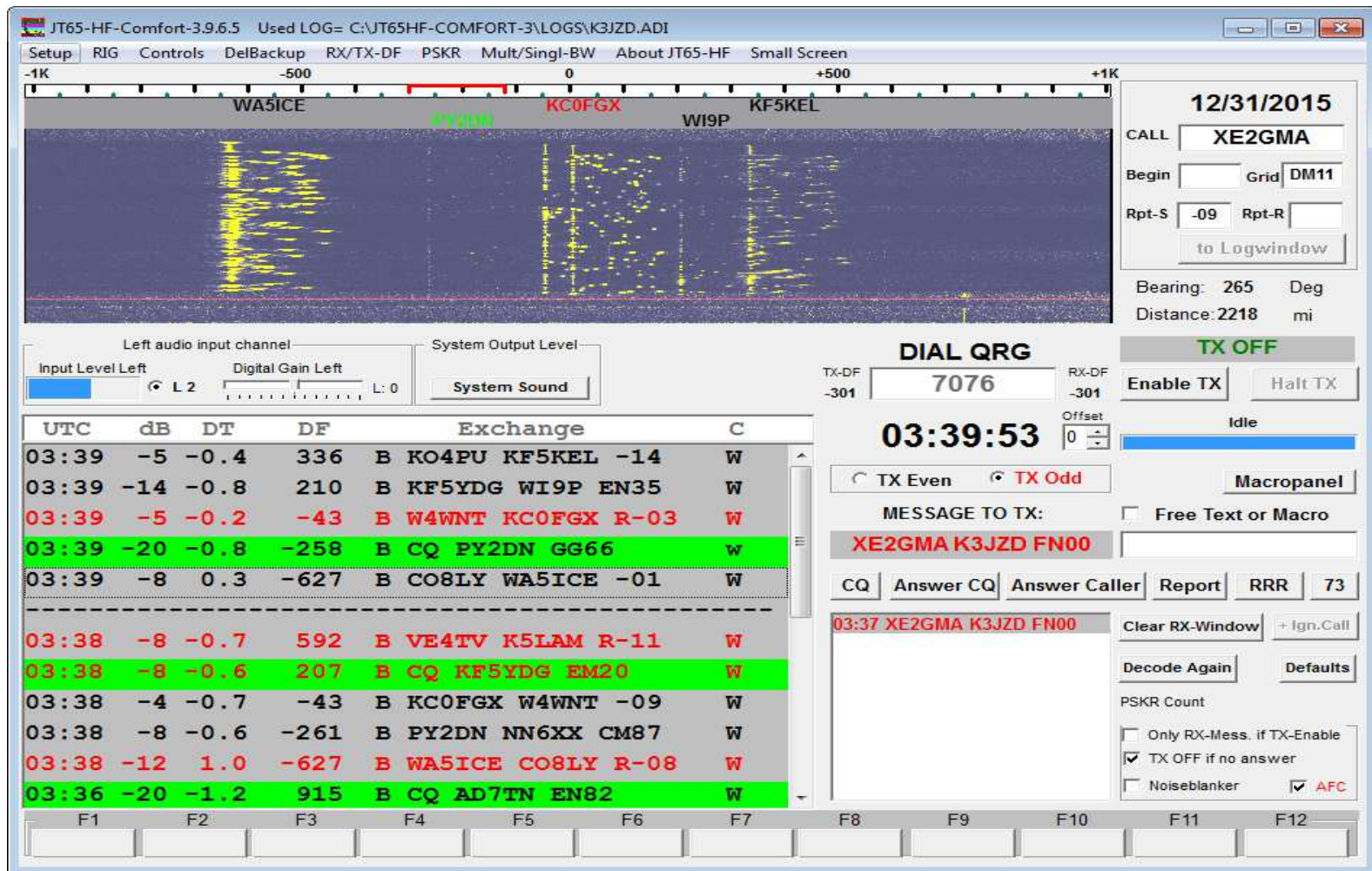
Using the JT65 Digital Mode

02:55 UTC QRZ.COM gives me more info on him (Not my DEL)

The screenshot shows a web browser window with the title "Result for: WA3ZSC". The address bar shows "Look call up on: qrz.com hamcall.net qrzcq.com Levinecentral Locator Map". The QRZ.COM logo is prominent. The navigation bar includes links for "Database", "News", "Forums", "Swapmeet", "Resources", "Contact", "Edit", and "K3JZD". The main content area displays the call sign "WA3ZSC" with a US flag icon, followed by the name "GERALD K SMITH" and address "51 Kimes Road, CARLTON, PA 16311, USA". A "Lookups: 1395" counter and a "Label" button are visible. Below this, there are tabs for "Biography" and "Detail", and a button that says "Log a NEW contact with WA3ZSC...". A green message states: "This call sign record is unmanaged. No additional information is available." Below this, it says "Last modified: unknown, 0 bytes". On the left side, there are several advertisements, including "STARTING AT \$27" from GigaParts, a "KENWOOD SALE", "Radios" with an image of a radio, and "everything you need". The top right corner shows a "go secure" link and the timestamp "02:56:21 UTC 31 Dec 2015".

Using the JT65 Digital Mode

03:39 UTC Start of a QSO Where I Answer PY2DN's CQ



Using the JT65 Digital Mode

03:40 UTC I Moved to His Frequency and I Am Calling Him

JT65-HF-Comfort-3.9.6.5 Used LOG= C:\JT65HF-COMFORT-3\LOGS\K3JZD.ADI

Setup RIG Controls DelBackup RX/TX-DF PSKR Mult/Singl-BW About JT65-HF Small Screen

-1K -500 0 +500 +1K

KC0FGX WI9P KF5KEL

12/31/2015

CALL PY2DN

Begin Grid GG66

Rpt-S -20 Rpt-R to Logwindow

Bearing: 149 Deg
Distance: 4886 mi

Left audio input channel: Input Level Left Digital Gain Left L: 2 L: 0 System Output Level System Sound

DIAL QRG 7076 TX-DF -258 RX-DF -258 Offset 0

03:40:15 TX Even TX Odd

MESSAGE TO TX: PY2DN K3JZD FN00

Free Text or Macro

CQ Answer CQ Answer Caller Report RRR 73

03:40 PY2DN K3JZD FN00

Clear RX-Window + Ign.Call

Decode Again Defaults

PSKR Count

Only RX-Mess. if TX-Enable
TX OFF if no answer
Noiseblanker AFC

UTC	dB	DT	DF	Exchange	C
03:39	-5	-0.4	336	B KO4PU KF5KEL -14	W
03:39	-14	-0.8	210	B KF5YDG WI9P EN35	W
03:39	-5	-0.2	-43	B W4WNT KC0FGX R-03	W
03:39	-20	-0.8	-258	B CQ PY2DN GG66	W
03:39	-8	0.3	-627	B CO8LY WA5ICE -01	W
03:38	-8	-0.7	592	B VE4TV K5LAM R-11	W
03:38	-8	-0.6	207	B CQ KF5YDG EM20	W
03:38	-4	-0.7	-43	B KC0FGX W4WNT -09	W
03:38	-8	-0.6	-261	B PY2DN NN6XX CM87	W
03:38	-12	1.0	-627	B WA5ICE CO8LY R-08	W
03:36	-20	-1.2	915	B CQ AD7TN EN82	W

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12

Using the JT65 Digital Mode

03:41 UTC PY3DN No Good – So I Decide To Call W5ZZ

The screenshot shows the JT65-HF-Comfort-3.9.6.5 software interface. The top menu bar includes Setup, RIG, Controls, DelBackup, RX/TX-DF, PSKR, Mult/Singl-BW, About JT65-HF, and Small Screen. The main display area is divided into several sections:

- Waterfall Display:** Shows a frequency spectrum from -1K to +1K. A yellow signal is visible at approximately 7076 kHz, labeled "WA5ICE".
- Right Panel:** Contains call information for "12/31/2015". The call is "PY2DN" with a grid of "GG66". It also shows a bearing of 149 degrees and a distance of 4886 miles. There are buttons for "Enable TX" and "Halt TX".
- Bottom Left Table:** A log of digital signals with columns for UTC, dB, DT, DF, Exchange, and C. The current entry is highlighted in green.
- Bottom Right Panel:** Contains a "DIAL QRG" section with a frequency of 7076 and a "TX Enabled" status. It also has a "MESSAGE TO TX" field and a "Macropanel" section.

UTC	dB	DT	DF	Exchange	C
03:41	-6	-0.8	215	B ZS1RL KC5JSV EM22	W
03:41	-6	-0.1	-43	B NU GRID TU 73	
03:41	-6	0.3	-624	B CO8LY WA5ICE 73	W
03:41	-7	-0.7	-834	B CQ W5ZZ EM31	W
<hr/>					
03:39	-5	-0.4	336	B KO4PU KF5KEL -14	W
03:39	-14	-0.8	210	B KF5YDG WI9P EN35	W
03:39	-5	-0.2	-43	B W4WNT KC0FGX R-03	W
03:39	-20	-0.8	-258	B CQ PY2DN GG66	W
03:39	-8	0.3	-627	B CO8LY WA5ICE -01	W
03:38	-8	-0.7	592	B VE4TV K5LAM R-11	W
03:38	-8	-0.6	207	B CQ KF5YDG EM20	W

Using the JT65 Digital Mode

03:44 UTC W5ZZ Answered – Rogering, With His Report

JT65-HF-Comfort-3.9.6.5 Used LOG= C:\JT65HF-COMFORT-3\LOGS\K3JZD.ADI

Setup RIG Controls DelBackup RX/TX-DF PSKR Mult/Singl-BW About JT65-HF Small Screen

-1K -500 0 +500 +1K

N6DBF KF5PWJ

12/31/2015

CALL W5ZZ

Begin 0343 Grid EM31

Rpt-S -02 Rpt-R -01

to Logwindow

Bearing: 235 Deg

Distance: 1026 mi

TRANSMITTING

DIAL QRG 7076

TX-DF -834 RX-DF -834

Offset 0

03:44:10

TX Even TX Odd

MESSAGE TO TX: Free Text or Macro

W5ZZ K3JZD R-02

CQ Answer CQ Answer Caller Report RRR 73

03:44 W5ZZ K3JZD R-02

Clear RX-Window + Ign.Call

Decode Again Defaults

PSKR Count

☐ Only RX-Mess. if TX-Enable

☒ TX OFF if no answer

☐ Noiseblanker ☒ AFC

Left audio input channel

Input Level Left Digital Gain Left L: 2 L: 0

System Output Level System Sound

UTC	dB	DT	DF	Exchange	C
03:43	-9	-1.3	213	B ZS1RL KF5PWJ EM20	W
03:43	-7	-0.6	8	B CQ N6DBF DM13	W
03:43	-2	-0.6	-834	= K3JZD W5ZZ -01	W
03:41	-6	-0.8	215	B ZS1RL KC5JSV EM22	W
03:41	-6	-0.1	-43	B NU GRID TU 73	W
03:41	-6	0.3	-624	B CO8LY WA5ICE 73	W
03:41	-7	-0.7	-834	B CQ W5ZZ EM31	W
03:39	-5	-0.4	336	B KO4PU KF5KEL -14	W
03:39	-14	-0.8	210	B KF5YDG WI9P EN35	W
03:39	-5	-0.2	-43	B W4WNT KC0FGX R-03	W
03:39	-20	-0.8	-258	B CQ PY2DN GG66	W

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12

07/18/16

Jody - K3JZD

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Using the JT65 Digital Mode

03:45 UTC W5ZZ Sent Me a Non-Standard 73 Message

The screenshot shows the JT65-HF-Comfort software interface. The top menu bar includes Setup, RIG, Controls, DelBackup, RX/TX-DF, PSKR, Mult/Singl-BW, About JT65-HF, and Small Screen. The main display area shows a waterfall plot with several signals labeled: W5ZZ, AK4T, N6DBF, KF5PWJ, and W7FIX. The right sidebar contains a log window with the following information:

12/31/2015
CALL: W5ZZ
Begin: 0343 Grid: EM31
Rpt-S: -02 Rpt-R: -01
to Logwindow
Bearing: 235 Deg
Distance: 1026 mi

The bottom section of the interface shows a table of received messages and a message input area.

UTC	dB	DT	DF	Exchange	C
03:45	-12	-1.9	511	B KD5HZ W7FIX DM26	W
03:45	-7	-1.3	223	B ZS1RL KF5PWJ R-12	W
03:45	-6	-0.6	8	B CQ N6DBF DM13	W
03:45	-12	0.2	-234	B NN6XX AK4T EM74	W
03:45	-4	-0.6	-834	= HNY 73 W5ZZ	W

03:43	-9	-1.3	213	B ZS1RL KF5PWJ EM20	W
03:43	-7	-0.6	8	B CQ N6DBF DM13	W
03:43	-2	-0.6	-834	= K3JZD W5ZZ -01	W
03:41	-6	-0.8	215	B ZS1RL KC5JSV EM22	W
03:41	-6	-0.1	-43	B NU GRID TU 73	
03:41	-6	0.3	-624	B CO8LY WA5ICE 73	W

The message input area on the right shows:

DIAL QRG: 7076
TX-DF: -834 RX-DF: -834
Offset: 0
TX Even TX Odd
MESSAGE TO TX: W5ZZ K3JZD R-02
CQ Answer CQ Answer Caller Report RRR 73
03:45 HNY 73 W5ZZ R
03:44 W5ZZ K3JZD R-02
Clear RX-Window + Ign.Call
Decode Again Defaults
PSKR Count
☐ Only RX-Mess. if TX-Enable
☒ TX OFF if no answer
☐ Noiseblanker ☒ AFC

Using the JT65 Digital Mode

03:46 UTC I send W5ZZ a Non-Standard 73 Message

JT65-HF-Comfort-3.9.6.5 Used LOG= C:\JT65HF-COMFORT-3\LOGS\K3JZD.ADI

Setup RIG Controls DelBackup RX/TX-DF PSKR Mult/Singl-BW About JT65-HF Small Screen

-1K -500 0 +500 +1K

N6DBF KF5PWJ W7FIX

12/31/2015

CALL W5ZZ

Begin 0343 Grid EM31

Rpt-S -02 Rpt-R -01

to Logwindow

Bearing: 235 Deg
Distance: 1026 mi

Left audio input channel— System Output Level—

Input Level Left Digital Gain Left L: 3 L: 0 System Sound

UTC dB DT DF Exchange C

03:45	-12	-1.9	511	B KD5HZ W7FIX DM26	W
03:45	-7	-1.3	223	B ZS1RL KF5PWJ R-12	W
03:45	-6	-0.6	8	B CQ N6DBF DM13	W
03:45	-12	0.2	-234	B NN6XX AK4T EM74	W
03:45	-4	-0.6	-834	= HNY 73 W5ZZ	W

03:43	-9	-1.3	213	B ZS1RL KF5PWJ EM20	W
03:43	-7	-0.6	8	B CQ N6DBF DM13	W
03:43	-2	-0.6	-834	= K3JZD W5ZZ -01	W
03:41	-6	-0.8	215	B ZS1RL KC5JSV EM22	W
03:41	-6	-0.1	-43	B NU GRID TU 73	
03:41	-6	0.3	-624	B CO8LY WA5ICE 73	W

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12

DIAL QRG

TX-DF -834 7076 RX-DF -834

Offset 0

03:46:20

☒ TX Even ☐ TX Odd

MESSAGE TO TX: ☒ Free Text or Macro

W5ZZ TU 73 W5ZZ TU 73

CQ Answer CQ Answer Caller Report RRR 73

03:46 W5ZZ TU 73
03:45 HNY 73 W5ZZ
03:44 W5ZZ K3JZD R-02

Clear RX-Window + Ign.Call

Decode Again Defaults

PSKR Count

☐ Only RX-Mess. if TX-Enable
☒ TX OFF if no answer
☐ Noiseblanker ☒ AFC

TRANSMITTING

Enable TX Halt TX

Transmitting

Using the JT65 Digital Mode

03:47 UTC | Clicked On [to Logwindow] – Data Cleared Here

The screenshot shows the JT65-HF-Comfort software interface. The top menu bar includes Setup, RIG, Controls, DelBackup, RX/TX-DF, PSKR, Mult/Singl-BW, About JT65-HF, and Small Screen. The main display area is a waterfall plot showing frequency and time. Below the plot is a table of log entries. To the right of the plot are controls for CALL, Begin, Grid, Rpt-S, Rpt-R, and a button to Logwindow. Below these are fields for Bearing and Distance. The bottom right section contains the DIAL QRG section with TX-DF, RX-DF, and Offset fields, a TX OFF button, and a Macropanel section with buttons for CQ, Answer CQ, Answer Caller, Report, RRR, and 73. The bottom of the interface has a row of function keys F1 through F12.

Left audio input channel: Input Level Left, Digital Gain Left, System Output Level, System Sound

UTC	dB	DT	DF	Exchange	C
03:45	-12	-1.9	511	B KD5HZ W7FIX DM26	W
03:45	-7	-1.3	223	B ZS1RL KF5PWJ R-12	W
03:45	-6	-0.6	8	B CQ N6DBF DM13	W
03:45	-12	0.2	-234	B NN6XX AK4T EM74	W
03:45	-4	-0.6	-834	= HNY 73 W5ZZ	W

03:43	-9	-1.3	213	B ZS1RL KF5PWJ EM20	W
03:43	-7	-0.6	8	B CQ N6DBF DM13	W
03:43	-2	-0.6	-834	= K3JZD W5ZZ -01	W
03:41	-6	-0.8	215	B ZS1RL KC5JSV EM22	W
03:41	-6	-0.1	-43	B NU GRID TU 73	
03:41	-6	0.3	-624	B CO8LY WA5ICE 73	W

TX-DF: -834, RX-DF: -834, Offset: 0

DIAL QRG: 7076

TX OFF

Enable TX, Halt TX

Receiving

Macropanel

MESSAGE TO TX: W5ZZ TU 73

Free Text or Macro

CQ, Answer CQ, Answer Caller, Report, RRR, 73

Clear RX-Window, +Ign.Call

Decode Again, Defaults

PSKR Count

Only RX-Mess. if TX-Enable

TX OFF if no answer

Noiseblanker, AFC

F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12

Using the JT65 Digital Mode

03:47 UTC What is Known From the QSO is in the Local Log

JT65-HF Log View Version 1.9.8.1 Total QSO's in log: 427

Logfile: C:\jt65hf-comfort-3\Logs\k3jzd.adi

	Call	Band	Date	Time_on	Time_off	Freq	RST_sent	RST_rcvd	Grid
	W5ZZ	40M	2015-12-31	03:43	03:46	7.076000	-02	-01	EM31
	AF0S	40M	2015-12-31	03:21	03:21	7.076000	-13	-12	DM78
	AI6AK	40M	2015-12-31	03:07	03:07	7.076000	-17	-17	DM13
	WA3ZSC	40M	2015-12-31	02:52	02:55	7.076000	-11	-08	FN01
	N6DBF	40M	2015-12-31	02:42	02:43	7.076000	-02	-14	DM13
	WC3T	40M	2015-12-31	02:34	02:35	7.076000	-17	-01	FN20
	KG5INX	40M	2015-12-31	02:29	02:29	7.076000	-14	-14	EM20
	WA1HEW	40M	2015-12-31	02:15	02:15	7.076000	-04	-14	FM19
	N3EEI	40M	2015-12-31	02:02	02:03	7.076000	-11	-06	FM19
	W5NZ	40M	2015-12-31	01:46	01:46	7.076000	-03	-01	EM62
	KA1ERL	40M	2015-12-31	01:35	01:36	7.076000	-06	-09	FN41
	F4GBD	40M	2015-12-30	23:10	23:11	7.076000	-15	-11	JN05
	DL9ZAD	40M	2015-12-30	22:57	22:57	7.076000	-17	-20	JN49
	KA0UNB	40M	2015-12-30	22:47	22:48	7.076000	-09	-09	EN11
	N4DLT	40M	2015-12-30	22:37	22:38	7.076000	-06	-05	EM95
	W6DPD	20M	2015-12-30	22:22	22:23	14.076000	-08	-12	DM06
	8881X	15M	2015-12-30	00:00	00:00	21.076000	-04	-07	EM00

Using the JT65 Digital Mode

03:47 UTC

QRZ.COM gives me more info on him


Result for: W5ZZ

Look call up on: [qrz.com](#) [hamcall.net](#) [qrzq.com](#) [Levinecentral Locator Map](#)

QRZ.COM

go secure 03:48:18 UTC 31 Dec 2015

by Callsign Search Database News Forums Swapmeet Resources Contact K3JZD

W5ZZ  USA













SERGEY A SEMEYKIN
3907 Briarwood Blvd.,
ALEXANDRIA, LA 71303
USA


Email: Use mouse to view..

Ham Member Lookups: 17862

Biography Detail Logbook 14

Visitors


 1,606	 32
 206	 22
 74	 20
 65	 18
 64	 17
 40	 16

 **FLAG counter**

SAVE UP TO 10% OFF!
On All Open Box Items
HAM RADIO OUTLET

YAESU
The radio

FT-1DR
Economical
Dual Band
Digital &
Analog FM
Transceiver



Using the JT65 Digital Mode

03:47 UTC

No real story there, but a nice Antenna


Result for: W5ZZ

Look call up on: ☒ qrz.com ☐ hamcall.net ☐ qrzq.com ☐ Levinecentral Locator Map

QRZ.COM

go secure 03:48:18 UTC 31 Dec 2015

by Callsign Search Database News Forums Swapmeet Resources Contact K3JZD

W5ZZ  USA













SERGEY A SEMEYKIN
3907 Briarwood Blvd.,
ALEXANDRIA, LA 71303
USA

Email: Use mouse to view..

Ham Member Lookups: 17862 Label


Biography Detail Logbook

Visitors

 1,606	 32
 206	 22
 74	 20
 65	 18
 64	 17
 40	 16

FLAG counter

W5ZZ



Using the JT65 Digital Mode

Some Parting Thoughts

Should you Call CQ or Answer a CQ ??

When you Answer a CQ, you may be one of many Answering.
Only one will win (best s/n ratio? or luck? - don't know)

Whenever you call CQ, You will only get One Answer.
It will be whoever, wherever. But it will be an answer.
(You do need to find a clear frequency to call CQ on)

There are some tricks to Answer someone you really want to get, like calling them on a different (but clear) frequency.

Using the JT65 Digital Mode

Some Parting Thoughts

Transmit on Even Minute or on Odd Minute?

Doesn't make any difference. When calling CQ, you need to watch for two minutes to find a clear frequency to use.

Sometimes it makes sense to see which minute has the most stations displayed, and then transmit on the opposite minute when you are calling CQ so that more stations will see you.

It takes a while to get the hang of it.

Using the JT65 Digital Mode

Questions ??