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Technical article Let's operate FT8 with the newly announced IC-7610

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FT8, one of the data communication protocols, is getting very popular, especially with the recent low sunspot conditions. We can hear its signal tone in the HF bands every day. FT8 was originally designed for communications under extreme weak signal conditions. The FB NEWS staff recently operated the FT8 mode, and in this issue we would like to introduce you to the connections, settings, and operations using the newly announced IC-7610.

Recently, most transceivers have a useful USB port to process sound data. You can simply connect a USB cable between your transceiver and your PC and operate in the popular digital modes. You do not need to use a troublesome external interface unit.

We recommend that you take the opportunity to try out the popular FT8 mode, if you have not already started.

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23445	-1 -0	.2 13	~ 88	CQ BG4VR	OM93	~C!	nina Russia		023145	1	0.1	1023	~ JASI	DA BGAN	N 73	
23445	-2 -0	.2 15	15 ~	CQ RAUAA	NOCO	~A2	Kussia		023216		-0.1	927	PDO	TA SVIIA	DM74	
23515	0 -0	2 13	£9	TA SVIIA BO	20m				023230		=0.1	927	- TASVI	UA RDO	-04	-
23515	-2 -0	1 8	93 ~	RDO JMS	TIL ONO2			-	023245	Tx		927	~ RDO	JASYUA	R+01	
23515	-5 0	.5 9	27 ~	RDO BH41	CY 73				023300	2	-0.1	927	- JASY	UA RDO	RRR	
23515	6 0	.1 10	23 ~	CO BG4NN	OM96	C	ina		023315	Tx		927	~ RDO	JASYUA	73	
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23545	1 -0	.2 13	67 ~	JASYUA BO	4VR RRP	2			023430	0	-0.1	927	BH4T	Y RDO	-05	
23545	-6 0	.3 8	47 ~	UA0JG B	SEI PMC	00			023445	1	0.5	927	~ RDO	BH4TY	R-09	
23545	2 0	.1 10	23 ~	CQ BG4NN	OM96	CI	nina		023445	-1	-0.2	1368	~ CQ BO	GAVR O	M93	
23545	-3 0	.1 15	76 ~	CQ RAOAA	N066	~A3	S Russia		023501	Tx		1368	- BG4VI	R JASY	UA PM7	4
					20m				023515	0	-0.2	1368	~ JASY	UA BG4V	R -13	6.000
23615	2 -0	.2 13	67 ~	JASYUA BO	4VR 73				023530	Tx		1368	 BG4VI 	R JASY	UA R+0	0
23615	-11 0	.3 8	47 ~	UA0JG BO	SEI R-1	18			023545	1	-0.2	1367	~ JASY	UA BG4V	R RRR	
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23615	5 0	.1 10	23 ~	CQ BG4NN	OM9.6	C	nina		023615	2	-0.2	1367	~ JASYI	UA BG4V	R 73	
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-60		Az 2	70	1542 km		[Hold Tx F	req	BG4VR	JA3Y	UA R+I	01		0	Tx 3	1 📃
-40		Look	4P	Add	Report 1				BG4VR	JASY	UA RR	R		0 [Tx 4	
-20		0.0		4.45	Auto Sec	a 6	Call 1st		BG4VF	JASY	'UA 73		<u></u>	- O	Tx 5	
		20	11/	1 15	NA VHF	Contes	t		CQ JASY	UA PI	474				Ty 6	i 11

FT8 operation example screen

Initial preparation

Before connecting the IC-7610 and a PC, it is necessary to first install a USB driver on the PC.

Download the latest version of the USB driver that corresponds to the IC-7610 from the Icom website, and install it on your PC.

Next, download the WJST-X*1 application software from the

K1JT website and install it on your PC, to use FT8.

http://physics.princeton.edu/pulsar/k1jt/wsjtx.html

*1 WSJT-X is only the software you can operate in the FT8 mode as of the middle of December, 2017. In our tests, we used software version v1.8.0.

Connections

Connect the USB cable between the IC-7610 USB-1 port, as shown below, and your PC. We recommend a USB cable with a ferrite bead attached, to prevent RF feedback.



o: USB-1 port



A type A/B USB cable

First of all, make sure that both the IC-7610 and the PC are turned OFF. Then, turn ON the PC power. After Windows has completely booted up, turn ON the IC-7610's power. The PC recognizes the connected IC-7610. Open the devise manager to make sure that two COM ports are displayed, and write down the COM port numbers for later application settings. These are all the cable and PC connections and setting preparations that are needed.



COM 4 and COM 5 are usable in this example

Settings in the IC-7610

To connect the IC-7610 USB port and the PC using one USB cable for modulation and demodulation, you need to have the USB settings enabled.

To set the USB settings on the IC-7610, first make sure that the DATA2 MOD is set to USB, as described below.

Push [MENU], then touch [SET] à [Connectors] à [MOD Input] to display the DATA MOD settings. Touch DATA2 MOD, then touch USB, if it is not already selected. Then, push [MENU] to return to the normal operating screen.

MOD INPUT	1/2
ACC MOD Level 50%	
USB MOD Level 50%	
LAN MOD Level 50%	
DATA OFF MOD MIC, ACC	
DATA1 MOD ACC	
DATA2 MOD USB	IJ

Set mode screen

Next, the settings for CI-V

Push [MENU], then touch [SET] à [Connectors] à [CI-V] à [CI-V

Baud Rate] to display the CI-V Baud Rate setting. Touch

[19200].

Next, touch CI-V address, and then touch [+] or [-], or rotate

[MULTI], to set the address to 8Eh*2, and push [EXIT].

Next, touch CI-V USB Port, the touch "Link to [REMOTE]".

CI-V	1/2
CI-V Baud Rate	
19200	
CI-V Address	
8Eh	
CI-V Transceive	
ON	-
CI-V USB/LAN→REMOTE Transceive Address	
00h	
CI-V Output (for ANT)	
OFF	
CI-V USB Port	
Link to [REMOTE]	Ð

CI-V Settings screen

*2: 8Eh is the IC-785x's default CI-V address. WSJT-X does not yet list the IC-7610 in the software as of December 2017. Therefore, you need to use the current settings for the IC-7850/7851 as the IC-7610 address. When the WSJT-X is updated to include the IC-7610, just skip this change and keep the same 98h address as that is the default CI-V address of the IC-7610.

Those are all the IC-7610 settings that are needed.

Settings in the WSJT-X software

Start the WSJT-X software, then click "File"à"Settings" to select the "General" tab menu. Input all necessary information on the screen, such as your call sign, your grid location, and so on.

🗹 Blank	k line between decoding periods	Font
🗌 Displ	ay distance in miles	Decoded Text Foot
🗹 Tx m	essages to Rx frequency window	
🗹 Show	DXCC entity and worked before	status
Behavior		
🗌 Monit	tor off at startup	Enable VHF/UHF/Microwave features
🗌 Monit	tor returns to last used frequency	Allow Tx frequency changes while transmittin
🗹 Doub	le-click on call sets Tx enable	Single decode
🗹 Disat	ole Tx after sending 73	Decode after EME delay
		Tx watchdog: 6 minutes
	D after 73	Periodic CW ID Interval: 0

General Tab setting screen

You can refer to the example settings as shown in the screen capture above. However, the call sign and grid location must be your own.

Next, select the "Radio" tab and input all necessary information, as described in the instructions below.

General Radio Audio Tx Macros	Reporting Frequencies Colors Advanded
Rig: Icom IC-785×	▼ Poll Interval: 1 s 🖨
CAT Control	PTT Method
Serial Port: COM7	
Serial Port Parameters	● CAT O RTS
Baud Rate: 19200	Port: COM7 🗸
	Transmit Audio Source
Data Bits	🔿 Rear/Data 💿 Front/Mic
🔿 Seven 💿 Eight	Mode
Stop Bits	● None ○ USB ○ Data/Pkt
One O Two	- Split Operation
Handshake	None
None XON/XOFF Hardware	
Force Control Lines	
	Test CAT Test PTT

Radio Tab setting screen

1. Rig: Icom IC-785x (until the software is updated to display the IC-7610)

2. Serial Port: Two COM ports should be displayed on two lines

if you connect the IC-7610. Select the COM port number

displayed on the top line that is displayed in the pull-down menu.

(In the example above, COM7 is selected.)

3. Baud Rate: 19200

4. Others: Select each setting as shown in the above example.

When you set all items described above, click the [Test CAT] button in the bottom right corner of the screen. If all items are

properly set, the color of the button changes to green. If the color changes to red, double check all settings, especially the COM Port number. However, if you still have a problem, select the other COM Port number, or confirm the CI-V address is correct in both the software and the IC-7610.

Next, click [Test PTT] on the right bottom corner while the [Test CAT] is green. [Test PTT] should change to red. Even if the IC-7610 "TX/RX" indicator lights red on the front panel, (indicating "transmit") it is not a problem at the moment because no modulation is applied to the IC-7610, and no transmit power is output. Then, click [Test PTT], to return to the normal configuration status.

Click the Audio tab on the Setting screen to set the items described below.

1. Input: Select the "USB Audio CODEC" as the microphone input.

2. Output, Select the "USB Audio CODEC" as the speaker output.

Those are all basic settings, and you can now operate in the FT8 mode. Click the [OK] button to close the Setting screen, and then the main WSJT-X screen is displayed.

Basic operations for FT8

1.Turn OFF both the IC-7610 and the PC. Then, turn ON the IC-7610 first and next turn ON the PC.

Note: If the turn ON is reversed, it may cause an error in the

WSJT-X.

After the WSJT-X application software starts up, make sure that the PC time is accurate within +/- 1 second. If the time is not correct, set the time in the Windows time setting.

Click "Mode" on the top menu line and select "FT8."

2.Select an operating band. There is the pull-down band selection window located slightly below the center on the left side on the main screen. Click the "v" (down arrow) to select the desired operating band. If you select the "20m" band, for example, the transceiver frequency is automatically changed to 14.074.000 MHz by a CI-V command.

3.Set the transceiver mode to USB-D2. First, touch the [SSB] mode button on the IC-7610 to open the Mode screen. Then, touch the [DATA] button to select "USB-D2."

If "USB-D2" is not displayed, touch and hold the [DATA] button several times to select USB-D2, then touch [EXIT] to close the mode screen.

Push [FILTER] several times to set BW filter bandwidth to 3.0 kHz, as shown in the screen example.



Example setting: Operating mode is set as USB-D2 and BW is set to 3 $$\rm kHz$.$

(The Waterfall screen shows that FT8 signals are being received)

4. When the band is open, the IC-7610 receives FT8 signals and the PC starts decoding those signals. The PC screen shows the decoded results. The screen refreshes every 15 seconds. When a station is calling CQ, the station data is displayed in pink.

	igurati	ons \	New M	ode	Decode Sa	we Tools	Help									
				_	Band Activity	·						Rx Fr	equency			
UTC	dB	DT	Freq		Message				UTC	dB	DT	Freq	Message			
20545	8	-0.2	1521	~	JA10 R00	CB RRR		^								
0600	5	1.6	1050	~	LUIX UAO.	JG PO40										
0600	-9	0.3	1521	~	ROCE JA10	0G 73										
:0600	-3	-0.1	1579	~	BU2B RAON	AA NO66										
:0600	-6	-0.0	1929	~	VKSP JR10	OP PM95		_								
0615	10	0.4	1331	-	CQ BUZBE	PL05	Taiwan									
0615		-0.2	1521	~	JAIO ROO	LB 73										
0630	0	-0.1	1570	2	BUCR DAO	NOSE NOSE										
0630	-8	-0.1	1806		VYSP .TP1/	OD DMGS										
0645	5	-0.5	1232		CO BGIL	0840	IChina									
0645	13	0.4	1331		CO BUZB	PLOS	Talwan									
0645	-6	0.5	1663		CQ JA61	PH51	1Japan									
0645	-13	0.8	1403	~	BGSE JA	10 PM95										
0700	3	1.6	1049	~	LUIX UAO	JG PO40										
0700	-9	0.4	1663	**	JA6I RVS	9U NO43										
20700	-9	-0.1	1806	~	VK5P JR10	OP PM95										
	-24		1040		CQ UB9M	MO65	AS Russia									
0715		-0.5	1232		CQ BG31	ON40	IChina									
0112	2.0	N-4	1000		CO JACT	DMS 1	Japan	~								
0715	1.5	0.4			and another		a a prosent									_
Log QS	-5 50	0.4	Stop		Monitor	E	rase [Decode	E	inable T:	×	Halt T	X	Tune		🗹 Me
Log QS	-5 SO	0.4	Stop		Monitor	E	rase	Decode	E	inable T	×	Halt 1	DX	Tune		Me.
0715 Log QS	-5 50		Stop	74	Monitor	E.	rase [Decode	E	inable Ti Gen	x verate S	Halt 1 itd Mses		Next	Now	Me Me
Log QS	-5 50 		Stop 14.0	74	Monitor 000 [DX Grid [E Tx even/1s Tx 1500 Hz	t t t Tx ← Rx	Decode	E	inable T: Gen	× verate S	Halt 1	×	Next	Now Tx 1	Me
Log Q(-5 50 		Stop 14.0	74	Monitor 000 [DX Grid	Tx even/1s Tx 1500 Hz Rx 1500 Hz	rase [t ↓ Tx ← Rx ↓ Rx ← Tx	Decode		inable Ti	× verate S	Halt 1		Next	Now Tx 1 Tx 2	Me
0715 Log Q n 	50 50		Stop 14.0	74	Monitor 000 DX Grid	Tx even/1s Tx 1500 Hz Rx 1500 Hz	rase [] t	Decode		Gen	x erate S	Halt 1		Next 0	Now Tx 1 Tx 2 Tx 3	Me
Coris Log Q n 	-5 50 		Stop 14.0	74	Monitor 000 [DX Grid [Add [Tx even/1s Tx 1500 Hz Rx 1500 Hz Report -15	rase [t	Decode		Gen	x nerate S	Halt T		Next 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Now Tx 1 Tx 2 Tx 3 Tx 4	Me
C715 Log Q(m - 80 - 40 - 40 - 20	-5 50 		Stop 14.0	74	Monitor	E Tx even/1s Tx 1500 Hz Rx 1500 Hz Report -15 Auto Seq	t Tx ← Rx Rx ← Tx Hold Tx Fr Call 1st	Decode		Gen	x berate \$	Halt 1		Next 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Now Tx 1 Tx 2 Tx 3 Tx 4 Tx 5	Me
0715 Log Q n -80 -60 -40 -20 -0 -0 -0	50 I I I I I I I I I I I I I I I I I I I		Stop 14.0 0x Call Lookup 2011	74	Monitor 000 0x Grid 0 Add 115 31	E Tx even/1s Tx 1500 Hz Rx 1500 Hz Report -15 Auto Seq NA VHF Co	t ↓ TX ← Rx ↓ Rx ← Tx ↓ Hold Tx Fr ↓ Call 1st mtest	Decode		Gen YUA PM	ix nerate S	Halt 1		Next 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Now Tx 1 Tx 2 Tx 3 Tx 4 Tx 5 Tx 6	Me
	50 I I I I I I I I I I I I I I I I I I I		Stop 14.0 DX Call Lookup 201 02	74)[][71 07	Monitor 0000 [DX Grid [Add [1 15 [31	E Tx even/1s Tx 1500 Hz Rx 1500 Hz Report -15 Auto Seq NA VHF Cc	t	eq	CQ JA3	Gen YUA PM	x erate S	Hait 1		Next 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Now Tx 1 Tx 2 Tx 3 Tx 4 Tx 5 Tx 6	

[WSJT-X Main screen example]

5.Observe QSOs by other stations to learn how QSOs are made.

6.Double-click on a station colored in pink with the mouse. The [Enable Tx] button changes to red, and the transceiver automatically starts transmitting to call the station. Quickly slide the "Pwr" slide control on the right bottom hand corner to adjust the transceiver output power. You can check the transmit power on the IC-7610 PO meter. The output power should be as low as possible, but still enough make a QSO.

7.When you receive a reply from the station you called, the QSO TX and RX are alternatively changed every 15 seconds in the WSJT-X software. When a part of your message does not properly reach the station, only that part of the message is resent. When the QSO is finished, transmitting automatically stops.

10 Y 1019 / 1008	Revel Activity			By F	and and a second			
DT Freq	Message	UTC	dB	DT Freq	Message			
0.0 854 ~	CO LNSDI GEOS Arcentina	041145	-8 0	1 1669 ~	PPS7X F5	180 73		,
0.0 034 ~	20m	041207	Ty	1669 ~	FSIR JA	SVIIA PM	74	
-0.2 1208 ~	PR811 2L4 04	041300	-5 -1	.5 1094 ~	CO R4C	L031		
0.1 1356 ~	K45 F050 R-11	041319	Tx	1094 ~	R4CE JA3	YUA PM7	4	
0.0 1387 ~	UR4 R K2 BK29	041330	8 -0	.2 1100 ~	CO DX UA	OF ONI	6	
	20m	041330	-4 -1	.5 1094 ~	CO R4CIII	L031		
0.0 587 ~	CO BD70XII OL62 ~China	041345	TX	1094 ~	R4CIII JA3	YUA PM7	4	۰.
0.1 696 ~	XV9NP JASC PM64	041400	-2 -1	.6 1094 ~	CQ R4Cm	L031		r .
0.1 810 ~	XV9NP JA3T PM74	041415	-7 -0	.0 1099 ~	R4CR BG7	CDX OL6	5	۰.
-0.1 1094 -	CO R4C= LO31 FEU Russia	041415	-6 0	.0 2038 ~	CQ E51BC	BG08		1
0.2 1355 ~	FOS JR3 FM74	041432	Tx	2038 ~	ESIB JA	SYUA PM	74	
-1.6 1570 ~	K2G JA3A PN74	041445	-5 0	.0 2037 ~	JASYUA E	51B +0	0	C.
0.9 2328 ~	CQ BG7BD OL69 ~China	041500	Tx	2038 ~	ESIB JA	SYUA R-	05	
0.1 855 ~	CQ LW5D GF05 Argentina	041515	0 0	.0 2036 ~	JASYUA E	51BU RR	R	r .
	20m	041530	Tx	2038 ~	ESIB JA	SYUA 73		
-0.1 1094 ~	JASYUA R4CH +02	041545	-2 0	.1 2036 ~	JASYUA E	51B 73	L	(
-0.0 696 ~	XV9NP JAS QN03	041930	-5 -0	.1 1094 ~	CQ R4C	L031		
0.1 810 ~	XV9NP JA3 R-07	041947	Tx	1094 ~	R4C JA3	YUA PM7	4	
-1.6 1570 ~	K2G JA3A PN74	042000	0 -0	.1 1094 ~	JASYUA R	400 +02		1
0.9 2328 ~	CQ BG7BD 0L69 ~China v	042015	Tx	1094 ~	R4C JA3	YUA R+0	0	~
	>	<					,	
Stop	Monitor Erase Decode	. 6	nable Tx	Halt	Tx	Tune	Me	nus
14.074	000	-	Q	ste Std Mean				Pw
	Tx even/1st	>	Gerier	are oro mats		EXT INC	~	
DX Call	DX Grid Tx 1094 Hz . Tx ← Rx 0	R4C JA	ASYUA PM	474	(O Tx	1	
R40	LO31 Rx 1094 Hz ♀ Rx ← Tx	R4C JA	48YUA +0	0		O Tx	2	
Az: 316	6990 km Hold Tx Freq	R4C JA	SYUA R.	00		• Tx	3	
Lookup	Add Report 0 0	RIC JA	SYUA RE	R		O Tx	4	P
	Auto Seg Call 1st	R4CI J	ASYUA 73	1	~ (5	
00171	1 1 5					-		
	ns View Mode DT Freq 0.0 8540.2 1208 - 0.1 1356 - 0.1 1357 - 0.1 1357 - 0.1 1357 - 0.1 1357 - 0.1 1357 - 0.1 13551.6 1570 - 0.1 2101.6 1570	New Mode Decode Save Tools Help Band Activity DT Freq Message Argentina -0.0 854 ~ CO LMSDE GF05 Argentina Argentina -0.1 1208 ~ FRSE ZL4 +04 0.0 1357 ~ CQ BD70XI OL62 ~China 0.1 656 ~ XV9NPI JASCE FK64 -0.1 616 ~ XV9NPI JASTE FK74 -1.6 1570 ~ K2CG JASAI FK74 0.2 1355 ~ F05 JR3 FK74 -1.6 1570 ~ K2CG JASAI FK74 -China 0.1 656 ~ XV9NPI JASTE FK74 -China -0.1 0.9 2328 ~ CQ BG7BD OL65 ~ China 0.1 0.55 ~ CQ LMSDI GF05 Argentina -20m -0.0 666 ~ XV9NPI JABE CN03 0.1 0.1 20.5 * CQ BG7BD OL65 ~ China -0.1 -0.1 0.55 ~ CQ LMSDI GF05 Argentina -0.1 0.55 ~ CQ LMSDI GF05 Argentina -0.1 -0.1 -0.0 -0.0 -0.1 0.55 ~ CQ LMSDI GF05 Argentina -0.1 -0.1 -0.0 -0.0 -0.1 0.55 ~ CQ LMSDI GF05 Argentina -0.0 -0.0 -0.0 -0.0	ns View Mode Decode Save Tools Help Bend Activity DT Freq Message 0.0 854 ~ CQ LWSD GFOS Argentina -0.2 1208 ~ PRE 2L4 +04 0.1 1356 ~ K4S FOSO R-11 0.0 1387 ~ CQ BD70X OL62 ~China 0.1 656 ~ XV9NPI JASC FK64 0.1 656 ~ XV9NPI JASC FK64 0.1 810 ~ XV9NPI JASC FK64 0.1 855 ~ CQ LWSD GFOS Argentina 0.2 1355 ~ FOS JR3 FM74 0.5 2328 ~ CQ LWSD GFOS Argentina 0.1 056 ~ XV9NPI JASC FK64 0.1 855 ~ CQ LWSD GFOS Argentina 0.1 056 ~ XV9NPI JASC FK64 0.1 855 ~ CQ LWSD GFOS Argentina 0.1 056 ~ XV9NPI JASC FK64 0.1 855 ~ CQ LWSD GFOS Argentina 0.1 056 ~ XV9NPI JASC FK64 0.1 855 ~ CQ LWSD GFOS Argentina 0.1 056 ~ XV9NPI JASC FK64 0.1 057 ~ K2C JA3AI FM74 0.9 2328 ~ CQ LWSD GFOS Argentina 0.1 056 ~ XV9NPI JASC FK64 0.1 057 ~ K2C JA3AI FM74 0.9 2328 ~ CQ LWSD GFOS Argentina 0.1 056 ~ XV9NPI JASC FK64 0.1 057 ~ K2C JA3AI FM74 0.9 2328 ~ CQ LWSD FFOS Argentina 041530 04153	New Mode Decode Save Tools Help Band Activity DT Freq Message 0.0 854 ~ CQ LWSD GFOS -0.2 1208 ~ PRE 2L4 +04 0.1 1356 ~ K4S FOSQ R-11 0.0 1387 ~ CQ BD70X OL62 ~ China 0.1 656 ~ XV9NPI JASC FK64 0.1 656 ~ CQ LWSD GFOS Argentina 0.1 656 ~ XV9NPI JASC FK64 0.1 656 ~ XV9NPI JASC FK64 0.1 656 ~ XV9NPI JASC FK64 0.1 656 ~ CQ LWSD GFOS Argentina 0.1 656 ~ XV9NPI JASC FK64 0.1 855 ~ CQ LWSD GFOS Argentina 0.1 855 ~ CQ LWSD GFOS Argentina 0.1 855 ~ CQ LWSD BFD OL69 ~ China 0.1 855 ~ CQ LWSD BFD OL69 ~ China 0.1 855 ~ CQ LWSD BFD OL69 ~ China 0.1 810 ~ XV9NPI JAS R-07 -1.6 1570 ~ K2CU JA3A FM74 0.1 810 ~ XV9NPI JAS R-07 -1.6 1570 ~ K2CU JA3A FM74 0.1 810 ~ XV9NPI JAS R-07 -1.6 1570 ~ K2CU JA3A FM74 0.1 810 ~ XV9NPI JAS R-07 -1.6 1570 ~ K2CU JA3A FM74 0.1 9328 ~ CQ BG7BD OL69 ~ China Stop	New Mode Decode Save Tools Help Rx F DT Freq Message UTC dB DT Freq 0.0 854 ~ CQ LMSD GFOS Argentina 041145 -8 0.11669 ~ -0.2 1208 ~ PRE 2L4 +04 041300 -5 -1.5 1094 ~ 041300 -5 -1.5 1094 ~ 0.0 1387 ~ CQ BD70X 0L62 ~ China 041300 -2 -1.6 1094 ~ 041300 -2 -1.6 1094 ~ 0.1 666 ~ XV9NPI JASC FR64 041300 -2 -1.6 1094 ~ 041415 -7 -0.0 1099 ~ 0.1 666 ~ XV9NPI JAST FN74 041415 -7 -0.0 1099 ~ 041415 -7 -0.0 2038 ~ 0.1 666 ~ XV9NPI JAST FN74 041415 -7 -0.0 2038 ~ 041415 -7 -0.0 2038 ~ 0.1 656 ~ XV9NPI JAST FN74 041415 -7 -0.0 2038 ~ 041415 -5 0.0 2038 ~ 0.1 855 ~ CQ IM5D GFOS Argentina 041415 -7 -0.0 1099 ~ 0.1 855 ~ CQ IM5D GFOS Argentina 041415 -5 0.1 2038 ~ 0.1 855 ~ CQ IM5D GFOS Argentina 041595 TX 2038 ~ -0.1 1094 ~ JA3YUA R4CH +01 Freq 041590 TX 2038 ~ 0.1 810 ~ XV9NPI JAS R ~07 -1.6 1570 ~ K2CU JA3A RH74 041595 TX 1094 ~ 0.1 910 ~ XV9NPI JAS R ~07 -1.6 1570 ~ K2CU JA3A RH74 041595 TX 1094 ~ 0.1 910 ~ XV9NPI JAS R ~07 -1.6 1570 ~ K2CU JA3A RH74 <	New Mode Decode Save Tools Help Rx Frequency DT Freq Message UTC dB DT Freq Message 0.0 854 ~ CO LMSD GFOS Argentina 01145 ~8 0.1 1669 ~ PRSIX 85. -0.2 1208 ~ PR8 ZL4 +04 041300 ~5 +1.5 1094 ~ CO R4CL 0.1 1356 ~ K45 FOSD R-11 041330 ~5 -0.2 1109 ~ CO R4CL 0.0 1357 ~ CQ BDTOX OL62 ~ -China 041345 TX 1094 ~ CQ R4CL 0.1 666 ~ XV9NPI JASCL FN64 041330 ~4 -1.5 1094 ~ CQ R4CL 0.1 656 ~ XV9NPI JASCL FN64 041345 TX 2038 ~ CQ R4CL 0.1 656 ~ XV9NPI JASCL FN64 041415 ~7 -0.0 1099 ~ R4CR 97. 0.2 1355 ~ FOS JR3 FN74 91405 ~ C0 2037 ~ JA3XUA E 0.1 655 ~ CQ LMSDI GFOS Argentina 041325 TX 2038 ~ CD 251BL JA 0.1 655 ~ CQ LMSDI GFOS Argentina 041355 ~ L002 003 ~ C51BL JA 0.1 855 ~ CQ LMSDI GFOS Argentina 041515 0 0.0 2037 ~ JA3XUA E -0.1 1094 ~ JA3YUA R4CL +02 041515 0 0.0 2036 ~ JA3YUA E -0.1 1094 ~ JA3YUA R4CL +02 041930 ~ 5 -0.1 12036 ~ JA3YUA E -0.1 1094 ~ XY9NPI JABL PN74 011207 ~ TX 1094 ~ R4CL JA3YUA E -0.1 1094 ~ X20 JA3 FX74 0.1 1094 ~ R4CL JA3YUA E -0.1 1094 ~ R4CL JA3X R4CL 041930 ~ 5 -0.1 12036 ~ JA3YUA E -0.1 1094 ~ R4CL JA3X R4 041930 ~ 5 -0.1 1204 ~ R4CL JA3YUA E 0.1 20	New Mode Decode Save Tools Help Rx Frequency DT Freq Message UTC dB DT Freq Message 0.0 854 ~ CO LMSD GF05 Argentina -0.2 1208 ~ PR8 ZL4 +04 041145 -8 0.1 1669 ~ FR8ZX ESLBQ 73 0.1 1356 ~ K45 F05Q R-11 041330 -5 -1.5 1064 ~ CQ R4C L031 0.0 1357 ~ UR4 RX BE25 041330 -4 -1.5 1054 ~ CQ R4C L031 0.1 666 ~ XV9NPI JASCE FN64 041300 -5 -1.6 1054 ~ CQ R4C L031 0.1 656 ~ XV9NPI JASCE FN64 041355 T 2 0.0 1059 ~ R4C B67CX 016 0.1 855 ~ CQ BD70X 0162 ~ China 041415 -7 -0.0 1059 ~ R4C B67CX 016 0.1 855 ~ CQ IMSD 0165 ~ China 041415 -6 0.0 2037 ~ JA3YUA FN7 0.1 855 ~ CQ IMSD 0165 ~ China 041515 0 0.0 2037 ~ JA3YUA ESIB R08 0.1 855 ~ CQ IMSD 0165 ~ China 041515 0 0.0 2037 ~ JA3YUA FN7 0.1 855 ~ CQ IMSD 0165 ~ China 041515 0 0.0 2037 ~ JA3YUA ESIB R08 0.1 856 ~ XY9NPI JA3 FN74 011 2056 ~ JA3YUA ESIB R08 0.1 810 ~ XY9NPI JA3 FN74 011 2056 ~ AJAYUA R24 ~ Q0 R4C JA3YUA FN7 0.1 1054 ~ JA3YUA RC4 +00 041535 T 2 0.1 2056 ~ ESIB JA3YUA R47 0.1 810 ~ XY9NPI JA3 FN74 011 2056 ~ Q0 R4C JA3YUA FN7 0.1 1054 ~ JA3YUA R24 ~ Q0 041545 T 2 0.1 2056 ~ ESIB JA3YUA R47 0.1 1054 ~ K2CG J	New Mode Decode Save Tools Help Rx Frequency DT Freq Message UTC dB DT Freq Message 0.0 854 ~ CQ LMSDD GFOS Argentina 041145 ~8 0.1 1669 ~ PR82X E51B0 73 -0.2 1208 ~ PR8 ZL4 +04 041300 -5 -1.5 1094 ~ CQ R4CL L031 0.0 1357 ~ CQ BDTOX OL62 ~ China 041330 -4 -1.5 1094 ~ CQ R4CL L031 0.1 696 ~ XY9NP JASC PR64 041330 -4 -1.5 1094 ~ CQ R4CL L031 0.1 696 ~ XY9NP JASC PR64 041330 -2 -1.6 1094 ~ CQ R4CL L031 0.1 696 ~ XY9NP JAST PR74 041415 -7 0.0 1099 ~ R4CR BGOS 0.2 1355 ~ FOS JR3 PR74 041415 -7 0.0 1099 ~ R4CR BGOS 0.1 696 ~ XY9NP JAST PR74 041415 -7 0.0 1099 ~ R4CR BGOS 0.1 696 ~ XY9NP JAST PR74 041415 -7 0.0 1099 ~ R4CR BGOS 0.1 695 ~ CQ BJRD OL69 ~ China 011007 Tx 2038 ~ E51B JASTUA PR74 0.1 695 ~ XY9NP JAST PR74 041330 Tx 2038 ~ E51B JASTUA PR74 0.1 855 ~ CQ LMSD GFOS Argentina -0.1 2036 ~ JASTUA ESLB 73 -0.0 656 ~ XY9NP JAST PR74 041530 Tx 2038 ~ E51B JASTUA PR74 0.1 857 ~ CQ BGTBD OL69 ~ China -0.1 1094 ~ QASTUA R4C +02 -0.1 1094 ~ JASTUA R4C +02 0.1 694 ~ R4CL JASTUA PR74 0.1 4014 ~ KCH H2 Tx Freq Member Argentina -0.1 1094 ~ QASTUA R4C +02 041545 Tx 1094 ~ R4CL JASTUA PR74

[Activity screen example]

8.If there is no reply from the station, and it sends CQ again, your [Tx1] message is automatically sent again. However, after retransmitting several times and you still have no reply, the transmit signal may not have reached to the station somehow with the current propagation. In that case, click [Enable Tx] to cancel transmitting.

9.If your QSO with a station is successful, click the [Log QSO] button to save the QSO data into the WJST-X software log.

10.Many stations are on the air and it is busy a lot of the time in the FT8 mode, especially on the 20 meter band. If you have not started to operate FT8 yet, install the software, set up your radio and PC and join in the fun.



[WSJT-X Waterfall screen example]



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