

The additional features of JTDX_improved

JTDX_improved is an extended version of JTDX. Both of which are based on the excellent WSJT-X software by Joe Taylor K1JT et al. With my 'improved' variants, I like to stay close to the original JTDX. Therefore you will find all basic JTDX functions unchanged. Both programs are compatible with each other, which makes the switch very easy. The program settings are automatically applied, and also the change back to the original JTDX works. After the great success of my wsjt-x_improved software, I thought it was time to implement some of its enhancements now also to JTDX.

Two different GUIs

JTDX_improved is available with two different GUIs for the main window: One is my 'improved' GUI of which is similar to that of wsjt-x_improved AL. But there is also a version with JTDX's default GUI.

Screen shot of the version with the **improved layout** ("AL" style):

The screenshot displays the JTDX software interface. At the top, a waterfall plot shows frequency activity from 500 to 3500 kHz. Below the plot, a list of detected signals is shown with columns for UTC, dB, DT, Freq, Avg, Lag, and Band Activity. A red arrow points to the 'JT' mode button in the control panel, which is highlighted in green. The control panel includes buttons for 'Hound', 'FT8', 'FT4', 'JT', 'AutoSeq2', and 'TX 00/30'. It also features a 'DX Call' field with 'LZ6DX' and 'KN23', a 'DX Grid' field with 'KN23', and a 'Tx/Rx Split' button. The status bar at the bottom shows 'Receiving', 'FT8', 'WD 6m', '9/15', 'Logd', '17.01.2023', and 'FT8 2264'.

UTC	dB	DT	Freq	Avg=0.14	Lag=+4.19/25	Band Activity
141645	-5	0.2	1720	~	Y04SGA UI6A -13	*EU Russi
141645	-8	0.1	1990	~	VK5PO LZ2MP KN23	*Bulgaria
141645	-1	-0.1	590	~	G7LII SP50RI K002	*Poland
141645	-5	0.3	1190	~	BX6ABC IK7JVE -17	*Italy
141645	-7	-0.1	871	~	RN3YN S52D RRR	*Slovenia
141645	-17	0.1	470	~	BV4VR N1LD FM18	*U.S.A.
141645	-15	0.4	970	~	R7BL F5EFK IN87	*France
141645	-10	0.1	1735	~	HA7JDU M1SJE I092	*England
141645	-12	0.5	2178	~	BV4VR N2TC R-15	*U.S.A.
141645	-11	0.1	664	~	CQ 2E0FNM I083	*England
141645	-17	0.1	1841	~	VK5PO YC4SJA 73	*Indonesi
141645	-14	-0.6	1420	~	CQ DX HA2BJ JN97	Hungary
141700	-2	0.2	759	~	CQ M0FOX I093	*England
141700	-1	0.2	2064	~	CQ LZ6DX KN23	*Bulgaria
141700	2	0.1	957	~	CQ HA1ZW JN86	*Hungary
141700	0	0.1	2755	~	CQ LY3PW K005	*Lithuani
141700	-3	-1.8	2411	~	MM0TQH UB1AKX K059	*EU Russi
141700	-10	0.2	857	~	CQ UI4P L045	*EU Russi
141700	2	0.6	465	~	BH1TSU IK8AWH JN70	*Italy
141700	0	0.1	1000	~	DL2B0 F1PG0 +00	France
141700	-1	0.1	1186	~	I21JLP IK4RVY 73	*Italy
141700	-10	0.4	2703	~	CQ R3DEO K086	*EU Russi
141700	-7	0.9	810	~	S52D RN3YN 73	*EU Russi
141700	-15	0.2	1132	~	CQ R7BL LN06	*EU Russi
141700	3	0.4	1547	~	YC0BJJ M0WGI RR73	*England
141700	1	-0.3	1775	~	PD1VIP HA5SIP R-09	Hungary
141700	2	0.0	1355	~	M1SJE HA7JDU -07	Hungary
141700	-3	0.0	2337	~	RA3DVM RX9ATX +00	*AS Russi
141700	-9	0.1	2197	~	CQ HB9ACA JN36	*Switzerl
141700	-11	0.2	1901	~	IU3JQC DK7ZT +08	*Germany
141700	-9	0.5	1720	~	UI6A Y04SGA R KN45	Romania
141700	-8	0.4	1415	~	VK100 F4IFK RR73	France
141700	-10	0.2	1262	~	M3ZYX II0TOUR -13	Italy
141700	-4	-0.1	1496	~	G0PRI 9A4ZM R+05	*Croatia
141700	-14	0.1	1580	~	CQ D1DX KN87	*where?
141700	-10	0.1	1297	~	IU3JQC EC3A -02	*Spain
141700	-21	0.8	2003	~	E72KB EA7AH -18	*Spain

Screen shot of the version with JTDX's default GUI:

The screenshot displays the JTDX software interface. At the top is the 'Wide Graph' window showing a spectrogram of audio signals from 500 to 3500 Hz. Below this is the main control panel. The top of the panel shows the current frequency (14,074 000) and time (14:22:24). The middle section contains a list of received messages with columns for UTC, dB, DT, Freq, and Message. The bottom section contains various control buttons like 'Enable Tx', 'Log QSO', and 'AGCc', along with a vertical power meter on the right side.

UTC	dB	DT	Freq	Message	Rx Frequency
142145	-2	-0.0	722	~ CQ MM0INS I085	
142145	-2	-0.2	3036	~ R7BL IT9PHU -13	
142145	2	0.0	908	~ CQ E74K JN95	
142145	-4	0.4	2641	~ BG6PYY F4HAB JN03	
142145	2	0.3	1430	~ CQ HA1BF JN86	
142145	-1	0.0	1690	~ CQ MM0HVU I085	
142145	-5	-0.0	664	~ CQ 2E0FNM I083	
142145	4	0.3	290	~ D1CQ IK4LZH JN54	
142145	-1	0.1	1087	~ <...> IV3IUM JN65	
142145	3	-0.1	1627	~ SP5ORI I13BRU -08	
142145	-4	0.1	2390	~ <...> EA2RE R-10	
142145	-3	0.1	1719	~ CQ UI6A KN95	
142145	0	0.3	1580	~ SQ9RST IU3QJC -16	
142145	-12	-1.4	1052	~ CQ IK1MJK JN35	
142145	-14	-0.0	1950	~ CQ OH3BOL KP10	
142145	-16	0.1	1982	~ CQ DX W4PKU FM18	
142145	-9	0.0	1900	~ PD1VIP DK7ZT -13	
142145	-13	0.0	1193	~ OK1BR IU1NFY 73	
142145	-15	0.3	970	~ RX9ATX F5EFK IN87	
142145	-15	-0.8	1420	~ RX9ATX HA2BJ R-13	
142145	-19	-1.4	401	~ 3D2USU IK4FCN JN64	
142145	-8	-1.7	2003	~ BG6PYY E72KB JN93	
142145	-15	-0.0	634	~ YC1FDF OZ6SX R-08	
142200	-2	0.1	759	~ CQ M0FOX IO93	
142200	0	0.1	2754	~ YC0BJJ LY3PW R-12	
142200	-4	0.2	2063	~ CQ LZ6DX KN23	
142200	-4	0.1	957	~ CQ HA1ZWN JN86	
142200	-8	0.3	2661	~ EA2RE DU6/PE1NSQ RR73	
142200	-3	1.0	829	~ E74K S55VN JN76	
142200	-3	0.9	1261	~ <...> II0TOUR RR73	
142200	-4	0.1	1000	~ YB5QZ F1PGQ -15	
142200	-4	0.1	1579	~ CQ D1DX KN87	
142200	-8	0.2	857	~ G4HUE UI4P RR73	
142200	-2	0.7	1982	~ W4PKU 2E0KBX IO90	
142200	1	0.4	1881	~ JR3UVW M0WGI -24	
142200	-14	0.1	590	~ W4PKU G0FYQ IO93	
142200	-14	0.1	1185	~ F9DK IK4RVY -17	
142200	-11	0.2	1131	~ CQ R7BL LN06	
142200	-1	0.0	1336	~ VK100 HA7JDU R-15	
142200	-14	0.1	2197	~ CQ HB9ACA JN36	
142200	-8	-0.3	1775	~ 2E0FNM HA5SIP JN97	
142200	-10	0.3	1190	~ PA0GRU IK7JVE -11	
142200	-13	0.2	1052	~ IK1MJK PA1TLO JO21	
142200	-8	-0.0	2337	~ HA2BJ RX9ATX -05	
142200	-8	0.1	2115	~ RZ9CM M0TLJ R-04	
142200	-15	-0.4	706	~ BH1TSU PA5TS -07	
142200	-15	-0.1	589	~ II3BRU SP5ORI KO02	
142200	-9	1.3	1785	~ KO4DCR IV3PTU JN65	
142200	-14	0.3	1992	~ UA4PEF LZ2MP KN23	
142200	-15	0.9	807	~ CQ RN3YN KO73	

In the Wide Graph window, text of "Control" checkbox has been removed to prevent accidental ticking when setting lower audio frequencies.

Improved Dark Style

I have slightly improved the definitions of the dark style sheets, resulting in a more balanced layout.

The screenshot displays the JTDX - FT991 software interface in dark mode. The top section shows a waterfall plot with frequency from 500 to 3500 kHz and time from 14:24:00 to 14:24:30. Below the plot is a list of detected signals with columns for UTC, dB, DT, Freq, and Message. The right side features a control panel with buttons for 'Hound', 'FT8', 'FT4', 'JT', and 'AutoSeq2'. A 'Tx/Rx Split' button is also visible. The bottom status bar shows 'Receiving', 'FT8' mode, 'WD 6m', '6/15' signal strength, 'Logd', '17.01.2023', and 'FT8 2264'.

With the 'improved' version, "FT8", "FT4", and "JT" mode buttons make it easy to switch between the frequently used modes (useful when menus are hidden).

Band buttons

Buttons for the frequently used bands allow direct switching to the main operating frequencies. You can hide the buttons via the View menu.

The screenshot shows the JTDX software interface. At the top, there is a waterfall plot with a frequency scale from 500 to 3500 kHz. Below the plot is a list of stations with columns for UTC, dB, DT, Freq, Message, and Rx Frequency. A red box highlights the 'Band buttons' at the bottom of the station list, which include buttons for 160, 80, 60, 40, 30, 20, 17, 15, 12, 10, 6, and 2 MHz. A red arrow points to the 'Hide band buttons' checkbox in the View menu. Another red arrow points to the text 'Toggle the band buttons On/Off'. A third red arrow points to the text 'Buttons for the frequently used bands'.

UTC	dB	DT	Freq	Message	Rx Frequency
140715 -11	0.9	1501	~ CQ IU0L GK JN61	Italy	140715
140715 -13	0.4	1500	~ CQ HA1BF JN86	Hungary	140715
140715 -11	0.9	1501	~ CQ IU0L GK JN61	Italy	140715
140715 -2	0.1	3075	~ YU1JW EB5AFK IM98	Spain	140715
140715 -2	0.2	1091	~ II9IGB RK4FF RR73	EU Russia	140715
140715 -3	0.2	2146	~ CQ R2CA K085	EU Russia	140715
140715 -10	0.2	2698	~ CQ OK1VM J070	Czech Rep.	140715
140715 -2	0.1	496	~ DL1VJL R5AV +01	EU Russia	140715
140715 -8	0.2	1160	~ CQ IZ8EDI JN70	Italy	140715
140715 -8	0.0	1813	~ R9WXX EB5R IM99	Spain	140715
140715 -7	-0.1	2334	~ IU5HIU II5IDK RR73	Italy	140715
140715 -2	0.1	1611	~ US5IQ GI5CEO 73	N. Ireland	140715
140715 -1	0.1	1733	~ CQ TC100YEAR	AS Turkey	140715
140715 -1	0.1	1228	~ EW8GT UA3PRS K084	EU Russia	140715
140715 -7	0.2	2520	~ RT1I DL9UXF J030	Germany	140715
140715 -10	0.1	962	~ CQ WC4R FM17	U.S.A.	140715
140715 -1	0.4	2292	~ VK5PO RQ7N KN97	EU Russia	140715
140715 -7	0.1	320	~ UI6A W3YNI FN00	U.S.A.	140715
140715 -13	-0.5	2447	~ CQ SQ2CFK J093	Poland	140715
140715 -6	0.6	2089	~ CQ YE1DO OI33	Indonesia	140715
140715 -8	0.2	1301	~ UA4HBM YC2UAI RR73	Indonesia	140715
140715 -16	0.3	2363	~ CQ KE3JP EN91	U.S.A.	140715
140715 -12	0.2	892	~ RK4PH EP5CHD 73	Iran	140715
140715 -10	0.2	377	~ CQ OZ1BJF J055	Denmark	140715
140715 -10	0.1	405	~ DK3RE VA3MJR R-13	Canada	140715
140715 -10	0.1	837	~ II1CAI PD2SHB J021	Netherlands	140715
140715 -8	-0.1	1960	~ RC0JD RA9YTP N002	AS Russia	140715
140715 -14	0.3	702	~ VK5CJC PD1DX R-08	Netherlands	140715
140715 -11	0.1	706	~ DB3MAX IU7OZR JN71	Italy	140715
140715 -18	0.3	1676	~ OK1GRM UB3KET -15	EU Russia	140715
140715 -13	0.4	1500	~ CQ HA1BF JN86	Hungary	140715
140715 -13	1.6	1602	~ YT5DM KF5WCP R-15	U.S.A.	140715
140715 -13	0.4	1989	~ KI5PPY N8HW +09	U.S.A.	140715
140715 -7	-0.1	1162	~ CQ LA2VLA JP66	Norway	140715
140715 -13	0.4	519	~ CQ F1PGQ JN35	France	140715
140715 -18	0.1	2650	~ <...> OZ60M J055	Denmark	140715
140715 -16	0.1	1038	~ DL1VJL DF1WR JN39	Germany	140715
140715 -18	0.1	847	~ CQ R2FAQ K004	Kaliningrad	140715
140715 -19	0.1	1545	~ VK2VAR KE8IOL EN82	U.S.A.	140715

Band Hopping

Band Hopping for FT8, FT4 and JT65! A new Tab 3 has checkboxes for the most important FT8, FT4 and JT65 frequencies. Just select the bands/modes you want and push the "Band Hopping" button. Automatic band hopping takes place every other full minute.

If you have a multiband antenna, this feature is very useful together with PSK Reporter to get an overview on the current propagation.

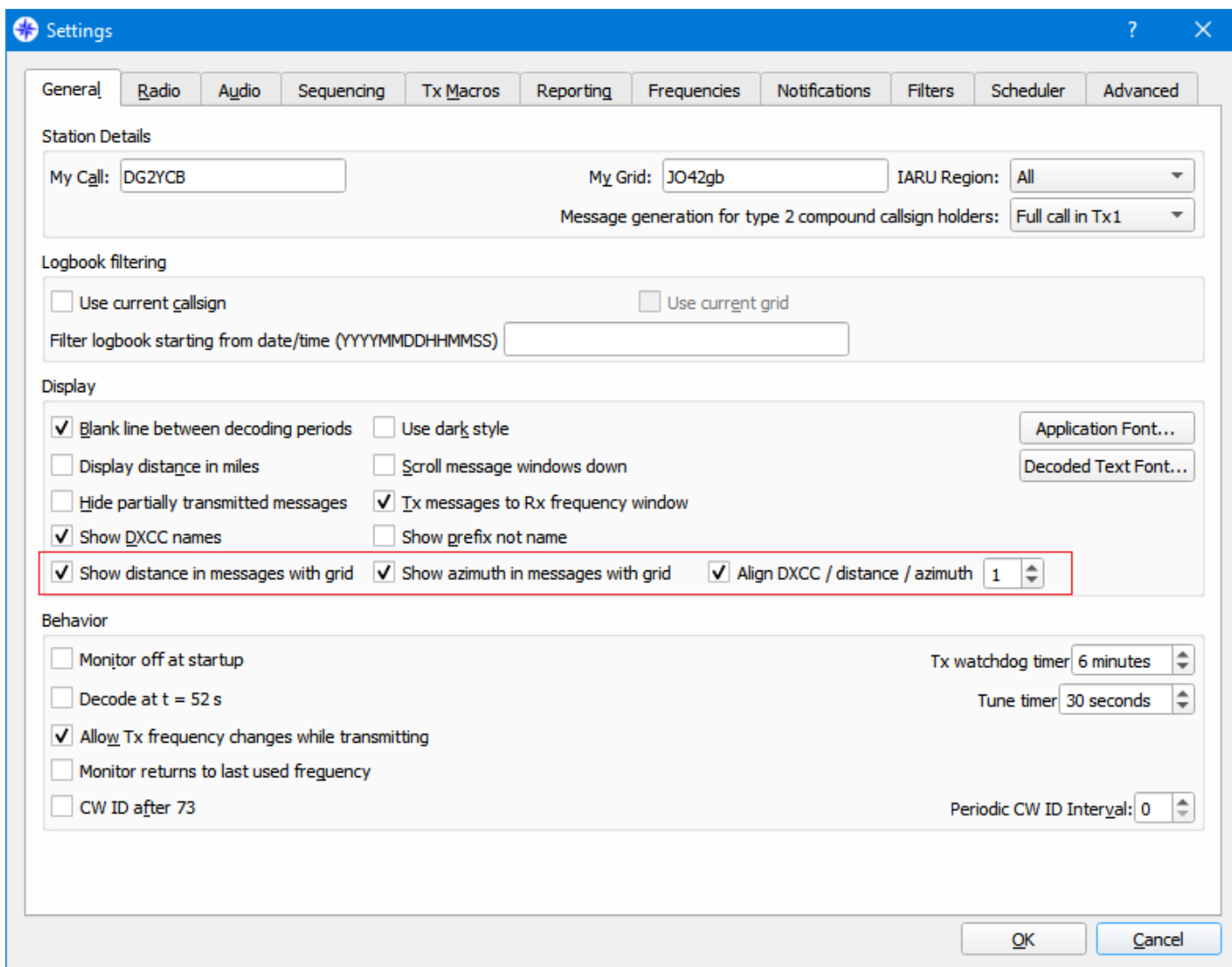
The screenshot displays the JTDX software interface. At the top, a wide graph shows frequency activity from 500 to 3500 kHz. Below the graph is a control panel with various settings like 'Bars', 'Bins/Pixel', 'Start', 'Palette', 'Scale', 'Gain', etc. The main window is titled 'JTDX - FT991 by HF community' and contains a log of received signals. The log is a table with columns for UTC, dB, DT, Freq, Avg, Lag, Band Activity, Message, and Rx Frequency. A red arrow points from the 'Band Hopping' button in the control panel to the 'Band Activity' column in the log. The control panel also features buttons for 'Hound', 'FT8', 'FT4', 'JT', 'AutoSeq2', 'TX 15/45', 'DX Call', 'DX Grid', 'Tx 1500 Hz', 'Report -15', 'CL 100%', 'Rx 1500 Hz', 'DT 0,0 s', 'Lookup', 'Add', 'Tx/Rx Split', 'Wanted', 'Clear DX', 'AutoTX', '1 QSO', 'Bypass', 'AnsB4', 'Spt', 'Enable Tx', 'Halt Tx', 'Tune', 'Menu', and a 'Band Hopping' button. The bottom status bar shows 'Receiving', 'FT8', 'WD 6m', '4/15', 'Logd', '26.02.2023', and 'FT8 2264'.

UTC	dB	DT	Freq	Avg=0.25	Lag=+4.33/17	Band Activity	Message	Rx Frequency
164515	-10	1.0	2626	~	UN7GB PY2DPM GG66	Brazil		
164515	-6	0.2	1655	~	EA4D PY2EDU GG66	Brazil		
164515	-14	0.1	915	~	W9AI IW0RLC R+04	Italy		
164515	-11	0.4	1586	~	UT4LA PU4DCN GH80	Brazil		
164515	-20	0.3	452	~	CQ CX9AU GF15	*Uruguay		
----- 26.02.23 16:45:44 UTC ----- 10m -----								
164530	-2	0.3	1042	~	CQ PP5HR GG53	Brazil		
164530	-7	-0.3	1532	~	CQ ZS6HBE KG44	S. Africa		
164530	-3	0.2	2796	~	R5AJ PU3MSR R-17	Brazil		
164530	-4	0.1	1669	~	PA2JFX CU6GT -13	Azores		
164530	-5	0.2	626	~	EI3CN 7Q7EMH RR73	Malawi		
164530	-11	0.1	2659	~	W09G EB3JT 73	Spain		
164530	-9	0.2	1789	~	KD0IKH IK8TLZ JN70	Italy		
164530	-12	0.1	981	~	ZS1WC DG1ABE R-02	Germany		
164530	-13	0.4	2837	~	CE3WAQ S51TA JN75	Slovenia		
164530	1	0.2	1625	~	D01VST PU5CVB -11	Brazil		
164530	-14	0.2	422	~	V51LZ OZ1HFG J065	Denmark		
164530	-15	0.1	2348	~	N1JTR EA6VQ RR73	Balearic Is.		
164530	-14	0.4	293	~	HC3RJ IK4LZH JN54	Italy		
164530	-19	-0.1	3102	~	CQ IW4EGP JN64	*Italy		
164530	-15	-0.1	2262	~	IU8BUP VP2EIH -09	Anguilla		
164530	-19	0.2	2564	~	CQ NA IU5LQC JN53	Italy		
164530	-17	0.3	1939	~	<...> OE8LSR JN76	Austria		
164530	-16	0.4	483	~	<...> IK6PTH JN63	Italy		
164530	-16	0.2	2627	~	CQ ON7FD J011	Belgium		
164530	-18	0.1	848	~	PY2EDU DG7LBB J053	Germany		
164530	-16	0.8	451	~	CX9AU HF9ZZ J090	Poland		
164530	-21	0.2	1066	~	CQ MW0USK IO81	*Wales		
----- 26.02.23 16:45:59 UTC ----- 10m -----								
164545	1	1.3	978	~	DG1ABE ZS1WC -17	S. Africa		
164545	-7	0.2	1654	~	EA4D PY2EDU GG66	*Brazil		
164545	-3	1.0	2626	~	ON7GB PY2DPM GG66	*Brazil		
164545	-2	0.2	1816	~	UX0DL PU3POE 73	*Brazil		
164545	-14	0.3	2954	~	CQ V51LZ JG81	*Namibia		
164545	-10	-0.1	1733	~	G4KVI CX5ABM -19	Uruguay		
164545	-10	0.4	1874	~	ON6MDG ZS4JAN -06	S. Africa		
164545	-12	0.1	2419	~	VP2EIH IK2G00 JN45	Italy		
164545	-18	0.2	696	~	CQ LU7DZ GF11	Argentina		
164545	-10	0.2	1425	~	F4JGI PP5TG RR73	*Brazil		
164545	-13	0.1	1477	~	PD1HPB PP5MGT R-22	Brazil		
164545	-15	0.2	916	~	W9AI IW0RLC 73	*Italy		
164545	-13	0.3	1736	~	Y08PS NE9EE -12	U.S.A.		
164545	-19	0.5	1205	~	IW8PQ <...> -15			
164545	-18	0.1	1400	~	CQ MW6PNW IO81	Wales		
164545	-18	0.2	1483	~	G4PMZ DH5BM J041	Germany		
164545	-18	0.9	2223	~	LW7ESL LW8EUA GF05	Argentina		

Show distance and/or azimuth with grid

If a station sends a valid Maidenhead locator, JTDX_improved now automatically calculates the distance and the great-circle azimuth and displays it in the Band Activity pane.

A new "Align DXCC / distance / azimuth" checkbox allows you to keep the DXCC names (or principal prefixes) as well as distance/azimuth in an aligned table form. The spin box allows further configuration of the preferred layout. It sets the number of spaces between the DXCC and the distance/azimuth field. You can increase or decrease the default number.



Limitation: Since normally only 4-digit grids are known for the other station, the accuracy of the calculation is limited, so that only at larger distances reliable values are to be expected.

The following screen shot shows the Band Activity pane with "Show distance in messages with gid", "Show azimuth in messages with gid" and "Align DXCC / distance / azimuth" enabled.

The screenshot displays the JTDX software interface. At the top, the title bar reads "JTDX - FT991 by HF community" and "v2.2.159, derivative work based on WSJT-X by K1JT". Below the title bar is a menu bar with options: File, View, Mode, Decode, Save, AutoSeq, DXpedition, Misc, Language, Help.

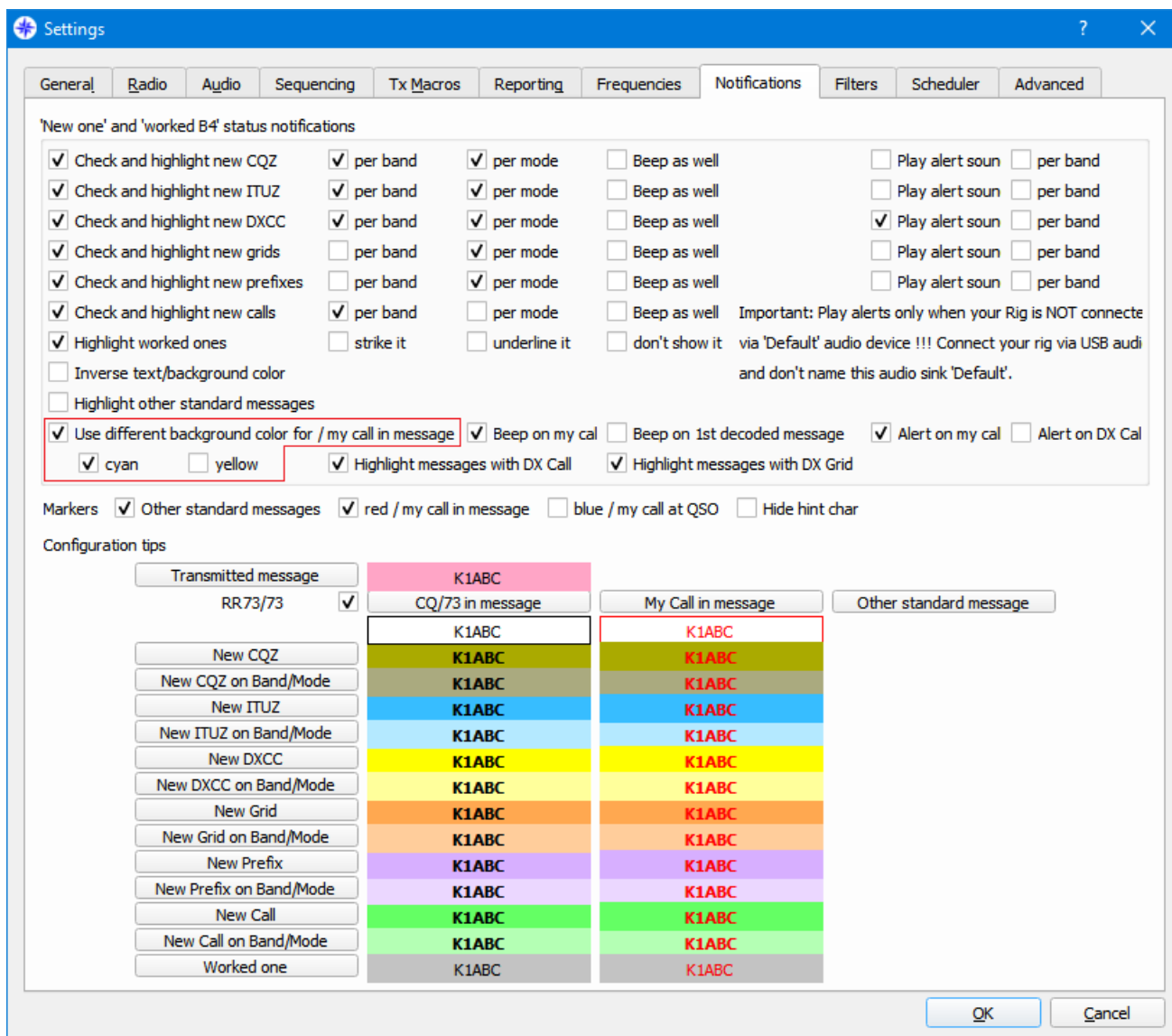
The main window is titled "Band Activity" and shows a list of received signals. The columns are: UTC, dB, DT, Freq, Avg=0.19, Lag=+5.62/25, Country, and Distance/Azimuth. The list includes various signals with their respective call signs and countries. For example, one signal is from Italy with a distance of 862 km and an azimuth of 167 degrees. Another signal is from Slovenia with a distance of 733 km and an azimuth of 177 degrees. The list continues with signals from the Netherlands, Germany, Spain, England, Belgium, EU Russia, Brazil, Malawi, Switzerland, Sweden, and Argentina.

At the bottom of the interface, there is a control panel with several buttons: SWL mode, Log QSO, Stop, Monitor, Decode, Erase, Sync, AGC, Filter, and S meter. Below these buttons, there is a display area showing "10m" (mode), a green "S" indicator, the frequency "28,074 000", and the time "15:34:12". At the very bottom, there is a status bar with "Receiving" (green), "FT8" (blue), "WD 6m" (white), and "12/15" (green).

UTC	dB	DT	Freq	Avg=0.19	Lag=+5.62/25	Country	Distance/Azimuth
153330	-13	0.4	292	~	NE9EE IK4LZH JN54	*Italy	[862 km / 167°]
153330	-14	0.1	815	~	LU7HBL IZ2EWQ JN45	Italy	[733 km / 177°]
153330	-15	0.4	1437	~	K0HMZ S58N 73	Slovenia	
153330	-17	0.2	2489	~	K6VHF/4L PD3ED -12	Netherlands	
153330	-14	0.1	2109	~	HC3RJ DK8ZB R-15	Germany	
153330	-23	0.1	901	~	CQ EA2DR IN83	*Spain	[1287 km / 227°]
153330	-18	0.1	494	~	4U13FEB IK0BPX JN62	Italy	[1116 km / 161°]
153330	-14	0.2	648	~	LU90ZX G800 J002	England	[520 km / 278°]
153330	-20	0.2	2626	~	CQ ON7FD J011	*Belgium	[391 km / 263°]
153330	-18	0.1	579	<...>	R1DD K059	EU Russia	[1620 km / 51°]
153330	-15	0.4	729	~	LU90ZX PD1DX -03	*Netherlands	
153330	-18	-0.1	1115	~	V51LZ PY2BEK -06	*Brazil	
153330	-10	0.4	998	~	DJ2GMS PU2OYT -14	*Brazil	
153330	-13	0.5	720	~	PA5RH 7Q7EMH -11	Malawi	
153330	-15	0.1	1716	~	TG9ADV HB9RJD JN47	*Switzerland	[511 km / 176°]
153330	-11	0.1	971	~	PY4MAB DL5JAN J040	Germany	[179 km / 170°]
153330	-19	0.3	1064	~	CT2FYF SM10II J097	*Sweden	[900 km / 44°]
153330	-17	0.3	1041	~	M7SLE PP5HR -21	*Brazil	
153330	-18	0.2	1737	~	4U13FEB DC5AJ J030	Germany	[208 km / 213°]
----- 26.02.23 15:33:59 UTC ----- 10m -----							
153345	-9	0.8	2290	~	CQ PY2ANY GG66	*Brazil	[9960 km / 229°]
153345	3	0.5	847	~	CQ 4X1UF KM72	Israel	[3046 km / 125°]
153345	2	0.1	1662	~	CQ DL22PEACE	Germany	
153345	-10	0.2	2955	~	CQ V51LZ JG81	*Namibia	[8964 km / 172°]
153345	5	0.2	1827	~	IW1QNQ RA4FUT R+16	EU Russia	
153345	-12	0.1	1247	~	CQ AF OZ6ABA J057	*Denmark	[623 km / 13°]
153345	-14	0.3	727	~	PD1DX LU90ZX R-03	Argentina	
153345	-14	0.3	720	~	7Q7EMH LU1DNO -16	Argentina	
153345	-15	0.2	647	~	IK4LZH NE9EE -07	*U.S.A.	
153345	-11	0.3	2578	~	IK2SAU HC2A0 -20	*Ecuador	
153345	-12	1.0	2807	~	C02TZ PY2DPM GG66	*Brazil	[9960 km / 229°]
153345	-13	0.1	2392	~	CN8AM YU7YZ -08	*Serbia	
153345	-15	0.2	1506	~	7Q7EMH OZ1RH -06	*Denmark	
153345	-16	1.3	2773	~	C02TZ CT2GQA IM58	*Portugal	[2034 km / 229°]
153345	-22	0.1	2182	~	VP2EIH UR5ECW 73	*Ukraine	
153345	-19	0.2	1411	~	K0VGB IS0KNG RR73	*Sardinia	
153345	-18	0.3	191	~	N1ZGA KB8RC EN82	U.S.A.	[6542 km / 300°]
153345	-16	-0.2	816	~	CQ KP4ALA FK68	*Puerto Rico	[7428 km / 271°]
153345	-14	0.2	2404	~	CQ NA IZ0RVI JN62	Italy	[1116 km / 161°]
153345	-19	-0.4	494	~	KA1MWP 4U13FEB -06	Italy	
153345	-16	0.1	1268	~	SP4HXV PP5IP -18	*Brazil	
153345	-17	-0.3	1126	~	KA0B0J I4BUQ 73	Italy	
153345	-18	-0.1	1241	~	N5NXS I1JTQ 73	Italy	
153345	-16	0.4	814	~	3A2MW LW5DIE FF95	Argentina	[11728 km / 233°]
153345	-14	0.1	1730	~	CX5ABM IK5ZAJ JN53	Italy	[971 km / 168°]

Use different background color for my call in messages

I implemented an option to highlight all messages with My Call by a yellow or cyan background (like WSJT-X).



Search DX Call on QRZ.com

Double-click on the Lookup button searches on QRZ.com for the callsign from the DX Call box.

Audible Alerts

Play individual alert sounds as notifications ("New DXCC", "New Grid", "Calling You" and so on).

Use of this feature requires that your computer is equipped with two sound cards. This requirement is fulfilled when your rig is connected via USB audio (FT-991, IC-7300, etc.). The audio alerts will be played on the default audio device (usually the loudspeaker of your computer) while the normal JTDX_improved output is still lead to your rig only.

Configure audio alerts on the "Notifications" tab of Settings. Just select the checkboxes according to your needs.

Useful settings could for example be:

'New one' and 'worked B4' status notifications

<input checked="" type="checkbox"/> Check and highlight new CQZ	<input checked="" type="checkbox"/> per band	<input checked="" type="checkbox"/> per mode	<input type="checkbox"/> Beep as well	<input checked="" type="checkbox"/> Play alert soun	<input type="checkbox"/> per band
<input checked="" type="checkbox"/> Check and highlight new ITUZ	<input checked="" type="checkbox"/> per band	<input checked="" type="checkbox"/> per mode	<input type="checkbox"/> Beep as well	<input type="checkbox"/> Play alert soun	<input type="checkbox"/> per band
<input checked="" type="checkbox"/> Check and highlight new DXCC	<input checked="" type="checkbox"/> per band	<input checked="" type="checkbox"/> per mode	<input type="checkbox"/> Beep as well	<input checked="" type="checkbox"/> Play alert soun	<input checked="" type="checkbox"/> per band
<input checked="" type="checkbox"/> Check and highlight new grids	<input type="checkbox"/> per band	<input checked="" type="checkbox"/> per mode	<input type="checkbox"/> Beep as well	<input type="checkbox"/> Play alert soun	<input type="checkbox"/> per band
<input checked="" type="checkbox"/> Check and highlight new prefixes	<input type="checkbox"/> per band	<input checked="" type="checkbox"/> per mode	<input type="checkbox"/> Beep as well	<input type="checkbox"/> Play alert soun	<input type="checkbox"/> per band
<input checked="" type="checkbox"/> Check and highlight new calls	<input checked="" type="checkbox"/> per band	<input type="checkbox"/> per mode	<input type="checkbox"/> Beep as well	<input type="checkbox"/> Play alert soun	<input type="checkbox"/> per band
<input checked="" type="checkbox"/> Highlight worked ones	<input type="checkbox"/> strike it	<input type="checkbox"/> underline it	<input type="checkbox"/> don't show it	<input type="checkbox"/> Play alert soun	<input type="checkbox"/> per band
<input type="checkbox"/> Inverse text/background color					
<input type="checkbox"/> Highlight other standard messages					
<input checked="" type="checkbox"/> Use different background color for / my call in message	<input checked="" type="checkbox"/> Beep on my cal	<input type="checkbox"/> Beep on 1st decoded message		<input checked="" type="checkbox"/> Alert on my cal	<input type="checkbox"/> Alert on DX Cal
<input checked="" type="checkbox"/> cyan	<input type="checkbox"/> yellow	<input checked="" type="checkbox"/> Highlight messages with DX Call	<input checked="" type="checkbox"/> Highlight messages with DX Grid		

Markers Other standard messages red / my call in message blue / my call at QSO Hide hint char

Configuration tips

Transmitted message	CQ/73 in message	My Call in message	Other standard message
RR73/73	K1ABC	K1ABC	
New CQZ	K1ABC	K1ABC	
New CQZ on Band/Mode	K1ABC	K1ABC	
New ITUZ	K1ABC	K1ABC	
New ITUZ on Band/Mode	K1ABC	K1ABC	
New DXCC	K1ABC	K1ABC	
New DXCC on Band/Mode	K1ABC	K1ABC	
New Grid	K1ABC	K1ABC	
New Grid on Band/Mode	K1ABC	K1ABC	
New Prefix	K1ABC	K1ABC	
New Prefix on Band/Mode	K1ABC	K1ABC	
New Call	K1ABC	K1ABC	
New Call on Band/Mode	K1ABC	K1ABC	
Worked one	K1ABC	K1ABC	

OK Cancel

Highlight messages with DX Call / DX Grid

Settings

General Radio Audio Sequencing Tx Macros Reporting Frequencies Notifications Filters Scheduler Advanced

'New one' and 'worked B4' status notifications

Check and highlight new CQZ per band per mode Beep as well Play alert sound per band
 Check and highlight new ITUZ per band per mode Beep as well Play alert sound per band
 Check and highlight new DXCC per band per mode Beep as well Play alert sound per band
 Check and highlight new grids per band per mode Beep as well Play alert sound per band
 Check and highlight new prefixes per band per mode Beep as well Play alert sound per band
 Check and highlight new calls per band per mode Beep as well Play alert sound per band
 Highlight worked ones strike it underline it don't show it via 'Default' audio device !!! Connect your rig via USB audio and don't name this audio sink 'Default'.
 Inverse text/background color
 Highlight other standard messages
 Use different background color for / my call in message Beep on my call Beep on 1st decoded message Alert on my call Alert on DX Call
 cyan yellow Highlight messages with DX Call Highlight messages with DX Grid

Markers Other standard messages red / my call in message blue / my call at QSO Hide hint char

Configuration tips

Transmitted message	K1ABC	My Call in message	Other standard message
RR73/73	CQ/73 in message		
New CQZ	K1ABC	K1ABC	
New CQZ on Band/Mode	K1ABC	K1ABC	
New ITUZ	K1ABC	K1ABC	
New ITUZ on Band/Mode	K1ABC	K1ABC	
New DXCC	K1ABC	K1ABC	
New DXCC on Band/Mode	K1ABC	K1ABC	
New Grid	K1ABC	K1ABC	
New Grid on Band/Mode	K1ABC	K1ABC	
New Prefix	K1ABC	K1ABC	
New Prefix on Band/Mode	K1ABC	K1ABC	
New Call	K1ABC	K1ABC	
New Call on Band/Mode	K1ABC	K1ABC	
Worked one	K1ABC	K1ABC	

OK Cancel

```

----- 17.01.23 14:22:13 UTC ----- 20m -----
142200 -2 0.1 759 ~ CQ M0FOX IO93 England
142200 0 0.1 2754 ~ YC0BJJ LY3PW R-12 °Lithuania
142200 -4 0.2 2063 ~ CQ LZ6DX KN23 Bulgaria
142200 -4 0.1 957 ~ CQ HA1ZW JN86 *Hungary
142200 -8 0.3 2661 ~ EA2RE DU6/PE1NSQ RR73 •Philippines
142200 -3 1.0 829 ~ E74K S55VN JN76 *Slovenia
142200 -3 0.9 1261 ~ <...> II0TOUR RR73 Italy
142200 -4 0.1 1000 ~ YB5QZ F1PGQ -15 *France
142200 -4 0.1 1579 ~ CQ D1DX KN87 *where?
142200 -8 0.2 857 ~ G4HUE UI4P RR73 •EU Russia
142200 -2 0.7 1982 ~ W4PKU 2E0K BX IO90 England
142200 1 0.4 1881 ~ JR3UVW M0WGI -24 *England
142200 -14 0.1 590 ~ W4PKU G0FYQ IO93 England
142200 -14 0.1 1185 ~ F9DK IK4RVY -17 *Italy
142200 -11 0.2 1131 ~ CQ R7BL LN06 *EU Russia
142200 -1 0.0 1336 ~ VK100 HA7JDU R-15 *Hungary
142200 -14 0.1 2197 ~ CQ HB9ACA JN36 °Switzerland
142200 -8 -0.3 1775 ~ 2E0FNM HA5SIP JN97 Hungary
142200 -10 0.3 1190 ~ PA0GRU IK7JVE -11 •Italy
142200 -13 0.2 1052 ~ IK1MJK PA1TLO JO21 Netherlands
142200 -8 -0.0 2337 ~ HA2BJ RX9ATX -05 AS Russia
142200 -8 0.1 2115 ~ RZ9CM M0TLJ R-04 *England
142200 -15 -0.4 706 ~ BH1TSU PA5TS -07 Netherlands
142200 -15 -0.1 589 ~ II3BRU SP5ORI KO02 •Poland
142200 -9 1.3 1785 ~ KO4DCR IV3PTU JN65 Italy
142200 -14 0.3 1992 ~ UA4PEF LZ2MP KN23 Bulgaria
    
```

Highlighting of callsign and/or grid by JAlert

Let JAlert highlight individual callsigns, grids or DT values. It works from JAlert version 2.51.3 on like with WSJT-X or wsjt-x_improved.

The screenshot displays the WSJT-X software interface. At the top, a bar shows several call signs with colored backgrounds: D05HOK (Germany), PY4MAB (Brazil), DL22PEACE (Germany), NE9EE IN (U.S.A.), DJ1AA (Germany), PU3POE (Brazil), ZS4JAN (S. Africa), and HC3RJ (Ecuador). Below this, a 'Callers: Alert' window highlights 'NE9EE IN -13 U.S.A.'. The main log window shows a list of decoded signals with columns for UTC, dB, DT, Freq, and Message. The 'NE9EE IN -13 U.S.A.' call sign is highlighted in pink in the log. A control panel on the right includes buttons for 'AutoSeq2', 'Tx/Rx Split', and 'Wanted', along with a frequency display showing 28,074,000 Hz.

UTC	dB	DT	Freq	Message	Rx Frequency
163030	-11	0.2	1356	~ PY2EM DLSASK RR73	
163030	-13	0.0	806	~ ZS1WC MM0BSM -07	
163030	-14	0.1	2050	~ CE3WAQ EB3JT 73	
163030	-15	0.2	2347	~ CQ EA6VQ JM19	
163030	-20	0.0	1228	~ CQ PD1HPB J022	
163030	-15	0.3	1392	~ K2HT I50TA RR73	
163030	-10	0.1	2170	~ ZP5DMM OE6TQG 73	
163030	-15	0.1	1203	~ HH75RCH DJ6EA JN48	
163030	-16	0.1	1925	~ PU3POE IK5ZAJ JN53	
163030	-18	0.2	1735	~ NE9EE PA2WDR J021	
163030	-19	1.8	1432	~ WX9WTF IW2BUW JN45	
163030	-17	0.4	293	~ HP2DFA IK4LZH JN54	
163030	-16	0.1	2086	~ HP2DFA DO7TW JN49	
163030	-22	0.3	1017	~ CQ MM0USK IO81	
163030	-18	0.1	2048	~ VE3WVA DL8BDU -17	
163030	-22	-0.0	3027	~ CQ IW4EGP JN64	
163030	-19	0.1	1114	~ K5EY IZ5IIN RR73	
163045	1	0.1	402	~ CQ D05HOK J042	
163045	-4	1.0	1145	~ LU1XCG PY2DPM GG66	
163045	-5	0.2	2505	~ CQ PY4MAB GG68	
163045	-1	1.2	804	~ MM0BSM ZS1WC R-25	
163045	0	0.1	1663	~ CQ DL22PEACE	
163045	-3	0.6	2738	~ 9A1AD PU4KOM GG79	
163045	-4	0.1	1892	~ VU3YDA PY2XL -14	
163045	-3	0.2	2813	~ VU3YDA PU3MSR R-16	
163045	-6	0.3	2954	~ PD0LH V51LZ RR73	
163045	-13	0.1	981	~ PP5CFL DG1ABE RR73	
163045	-6	0.1	1356	~ DLSASK PY2EM 73	
163045	-13	0.3	1735	~ SP3QDM NE9EE -18	
163045	-16	0.4	1204	~ IT9VCE HH75RCH RRR	
163045	-16	-0.1	916	~ XE3E IW0RLC JN63	
163045	-20	0.3	1802	~ CQ DJ1AA J041	
163045	-17	2.2	1453	~ LX2RS LU8EEY R-08	
163045	-14	0.2	451	~ US4IQ XQ3MCC RR73	
163045	-8	0.1	1922	~ CQ PU3POE GG40	
163045	-9	0.4	1875	~ N5VIS ZS4JAN RR73	
163045	-14	0.2	1340	~ EA3HMM W3RFC -07	
163045	-10	0.3	1623	~ SP5MXZ PY1SW 73	
163045	-16	0.1	1663	~ R2BDR PU2ONQ R-13	
163045	-23	0.2	1941	~ XE3E OE1LSR JN76	
163045	-19	0.2	1810	~ CQ HC3RJ FI06	
163045	-17	0.1	1268	~ LA3DV PP5IP 73	