



1-element 'yagi' by ZL1RS

Ah, it had to work, Dave! When you are -15 here on a 12dB gain Yagi with Ground Gain at only one end, then a 0dB gain dipole and Ground Gain at both ends has got to work also.

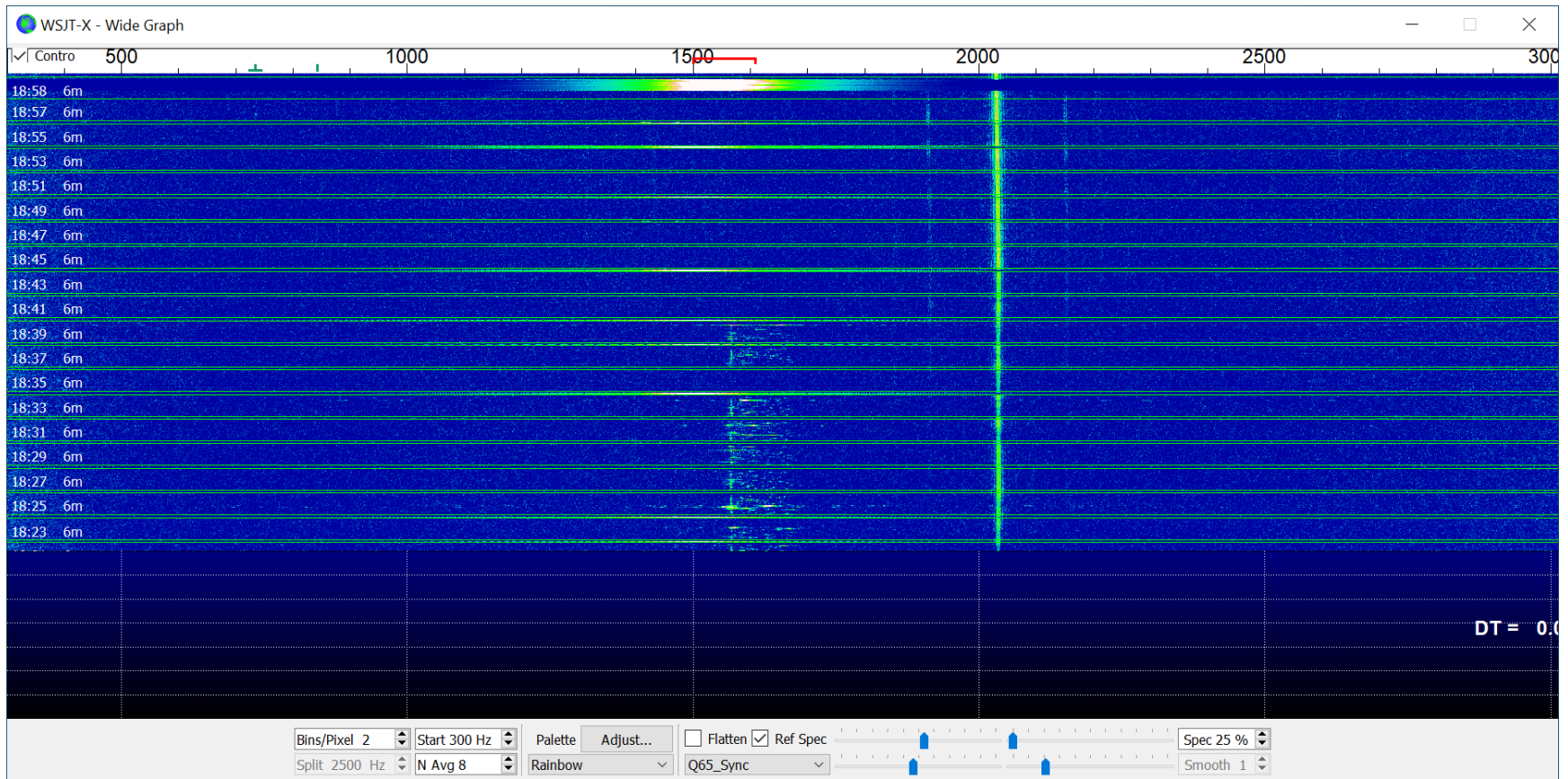
I'm still puzzled by the -22 and -23 signal levels, but it must be 'ionospheric lens effect' related ?

FYI ... the dipole was at 3meter high (10 feet) on a pole clamped to a fencing 'star picket' as pictured, fed with a common mode balun (8 x 26mm diameter Laird 28B material ferrite rings) on the end of 9m of 10D-FB coax (prepared for the 11 element DG7YBN Yagi that is under construction), 20m of LDF4-50 into the shack. 1kW only from BLF188XR LDMOS PA, IC-7610 radio.

73, Bob ZL1RS



KJ9I 6m EME array: 4 x 10-LFAs rotated by Extra-Large prop-pitch (azimuth) and Small prop-pitch (elevation). Photo by KJ9I



Windows PC using AirSpy R2 and SDR Console v3.1 for receive (Mac Tx computer decoded none of these signals).

WSJT-X v2.5.4 by K1JT, G4WJS, K9AN, and IV3NWW

File Configurations View Mode Decode Save Tools Help

Single-Period Decodes

UTC	dB	DT	Freq	Message	
1742	-9	0.0	1503	: CQ KJ9I EN53	q0
1744	-7	0.1	1503	: CQ KJ9I EN53	q0
1746	-7	0.1	1503	: CQ KJ9I EN53	q0
1748	-8	0.1	1503	: CQ KJ9I EN53	q0
1750	-8	0.1	1503	: CQ KJ9I EN53	q0
1752	-6	0.5	1505	: CQ KJ9I EN53	q0
1809	-4	0.2	1495	: KJ9I WK9R -11	q0
1809	-7	0.4	1498	: KJ9I WK9R -11	q0
1823	-30	2.9	739	: KJ9I ZL1RS -27	q3
1833	-14	0.8	1567	: KJ9I KM0T EN13	q2
1839	-16	0.5	1567	: KJ9I KM0T EN13	q0
1847	-31	2.9	737	: KJ9I ZL1RS -27	q3
1855	-32	2.9	735	: KJ9I ZL1RS RRR	q3
1857	-25	2.9	735	: KJ9I ZL1RS RRR	q3

Average Decodes

UTC	dB	DT	Freq	Message	
1809	-4	0.2	1495	: KJ9I WK9R -11	q0
1809	-7	0.4	1498	: KJ9I WK9R -11	q0
1814	Tx		1500	: ZL1RS KJ9I EN53	
1816	Tx		1500	: ZL1RS KJ9I EN53	
1818	Tx		1500	: ZL1RS KJ9I EN53	
1820	Tx		1500	: ZL1RS KJ9I EN53	
1822	Tx		1500	: ZL1RS KJ9I EN53	
1823	-30	2.9	739	: KJ9I ZL1RS -27	q3
1824	Tx		1500	: ZL1RS KJ9I EN53	
1826	Tx		1500	: ZL1RS KJ9I EN53	
1828	Tx		1500	: ZL1RS KJ9I EN53	
1830	Tx		1500	: ZL1RS KJ9I EN53	
1832	Tx		1500	: ZL1RS KJ9I EN53	
1834	Tx		1500	: ZL1RS KJ9I -30	
1833	-14	0.8	1567	: KJ9I KM0T EN13	q2
1836	Tx		1500	: ZL1RS KJ9I -30	
1838	Tx		1500	: ZL1RS KJ9I -30	
1840	Tx		1500	: ZL1RS KJ9I -30	
1839	-16	0.5	1567	: KJ9I KM0T EN13	q0
1842	Tx		1500	: ZL1RS KJ9I -30	
1844	Tx		1500	: ZL1RS KJ9I -30	
1846	Tx		1500	: ZL1RS KJ9I -30	
1847	-31	2.9	737	: KJ9I ZL1RS -27	q3
1848	Tx		1500	: ZL1RS KJ9I R-30	
1850	Tx		1500	: ZL1RS KJ9I R-30	
1852	Tx		1500	: ZL1RS KJ9I R-30	
1854	Tx		1500	: ZL1RS KJ9I R-30	
1855	-32	2.9	735	: KJ9I ZL1RS RRR	q3
1856	Tx		1500	: ZL1RS KJ9I 73	
1857	-25	2.9	735	: KJ9I ZL1RS RRR	q3

Log QSO Stop Monitor Erase Clear Avg Decode Enable Tx Halt Tx Tune Menus

6m 50.190 000 Tx even/1st
 Tx 1500 Hz
 F Tol 10 Submode A
 Rx 892 Hz Max Drift 0
 Report -30
 T/R 60 s
 Sh Auto Seq Call 1st Tx6

DX Call DX Grid
 ZL1RS RF64VS
 Az: 247 13131 km
 Lookup Add

2022 Oct 16
19:07:45

Generate Std Msgs Next Now
 ZL1RS KJ9I EN53 Tx 1
 ZL1RS KJ9I -30 Tx 2
 ZL1RS KJ9I R-30 Tx 3
 ZL1RS KJ9I RRR Tx 4
 ZL1RS KJ9I 73 Tx 5
 CQ KJ9I EN53 Tx 6

EME O65A AirSpyR2 O65-60A Last Tx: ZL1RS KJ9I 73 11 0 0/60 WD:99m

Windows PC using AirSpy R2 and SDR Console v3.1 for receive

The screenshot displays the WSJT-X software interface, which is used for digital voice communication in amateur radio. The interface is divided into several main sections:

- Wide Graph (Top Left):** Shows a frequency spectrum from 600 to 2600 kHz. A red arrow points to a signal at approximately 800 kHz. The time shown is 18:59:58.
- Astronomical Data (Top Middle):** Displays information for the date 2022 Oct 16 at 19:00:22 UTC. Key parameters include:
 - Az: 341.2
 - El: 24.1
 - SelfDop: -39
 - Width: 1
 - Delay: 2.68
 - DxAz: 307.5
 - DxEl: 0.3
 - DxDop: -65
 - DxWid: 1
 - Dec: 28.1
 - SunAz: 90.3
 - SunEl: 15.4
 - Freq: 50.2
 - Tsky: 6934
 - Dpol: -57.8
 - MNR: 7.3
 - Dist: 401401
 - Dgrd: -5.6
- Decode Windows (Top Right):**
 - Single-Period Decodes:** Lists individual decodes with UTC, dB, DT, Freq, and Message. Example: 1802 -27 2.9 1447 : CQ KJ9I EN53 q3.
 - Average Decodes:** Lists averaged decodes. Example: 1847 Tx 800 : KJ9I ZL1RS -27.
- Control Panel (Middle Right):** Shows the current frequency as 50.186 000. It includes controls for TX/RX, submode (A), and various filters (FT4, FT8, MSK, Q65, JT65). The time 2022 Oct 16 19:00:22 is displayed.
- Chat Window (Bottom):** A chat window titled "www.on4kst.info/chat/index.php" showing a list of messages. The messages are organized into columns: UTC, CALL/NAME, EME (all bands/modes) MESSAGES, UTC SPOTTER QRG, DX, and INFO.
 - Messages:**
 - 19:00:17 ZL1RS Bob: Well, Dave ... 'poor antenna' is no excuse for your sked partners!
 - 18:59:01 ZL1RS Bob: your best ... 1850 -23 2.9 1441 : ZL1RS KJ9I R-30 q3 (KJ9I) dear Dave, we'll try again. I have several QSOs in 50 mhz, it seems that a "black hole" has existed for some time. See you soon hear back and connect ... rest assured tha
 - 18:58:43 18KPV ENZO
 - 18:58:05 KJ9I Dave 4x10 LFA: 1857 -25 2.9 735 : KJ9I ZL1RS RRR q3
 - 18:57:25 KJ9I Dave 4x10 LFA: thank you Bob!
 - 18:57:18 KJ9I Dave 4x10 LFA: 1855 -32 2.9 735 : KJ9I ZL1RS RRR q3
 - 18:57:08 KJ9I Dave 4x10 LFA: 1847 -31 2.9 737 : KJ9I ZL1RS -27 q3
 - 18:56:54 KJ9I Dave 4x10 LFA: 1823 -30 2.9 739 : KJ9I ZL1RS -27 q3
 - 18:45:18 KJ9I Dave 4x10 LFA: (KM0T) Thank you so much for the try Mike!
 - 18:44:31 KJ9I Dave 4x10 LFA: the SDR on other end of room saw things... so I manually typed into this TX PC.. low on sleep I sent wrong Tx msg before... fixed now
 - 18:44:07 KJ9I Dave 4x10 LFA: (ZL1RS) drat... I sent wrong msg E4... now fixed
 - 18:43:30 KJ9I Dave 4x10 LFA: RR thans Mike
 - 18:42:28 KM0T Mike: gota run Dave.. no moon except at 1808. 73 and GL
 - 18:28:46 KM0T Mike: yes, understood, your just off the back essentially now...
 - 18:28:20 KJ9I Dave 4x10 LFA: now my array is probably right over your area.
 - 18:28:05 KJ9I Dave 4x10 LFA: earlier was probably better as moon was more south.
 - Spotter List:** A list of 33 registered users, including call signs and names like DKGNE, JO50AL, Uli 9ele az only, etc.

What ZL1RS saw from his end of the link.