3B9GJ 18th **6m EME** DXpedition and 1st with Q65 Pileup

3B9GJ

6M EME DXPEDITION Term Rouge, Rodrigues Island, Mauritius Grid MH19RH, IOTA AF-617, CO DX Zone 39, ITU Zone 53

Sunday morning, August 27, 2023



Later that afternoon



Mast on Prop and Awaiting the Yagi



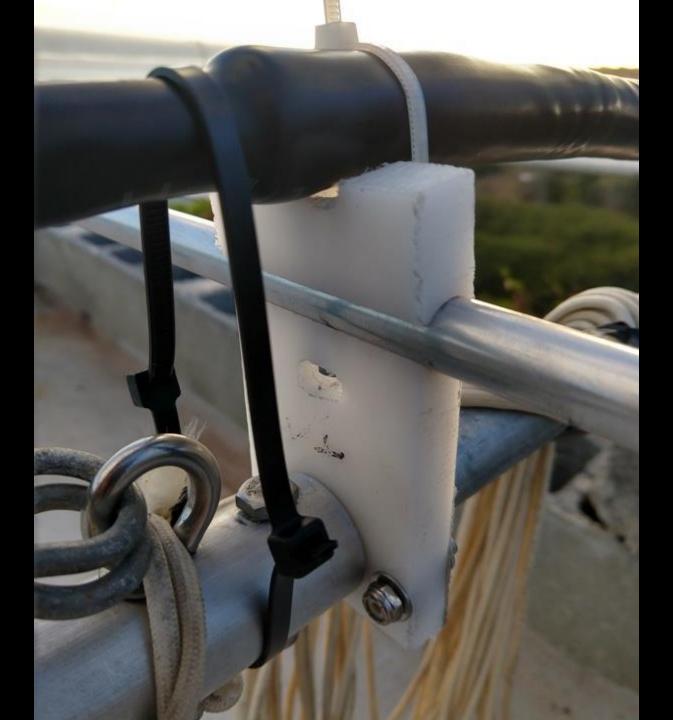
Assembling the yagi



Driven Element and Balun



D1



D3 and the rest



Monday Afternoon August 28, 2023 (antenna ready but winds too high)



Placing Yagi on Mast Tuesday, August 29, 2023



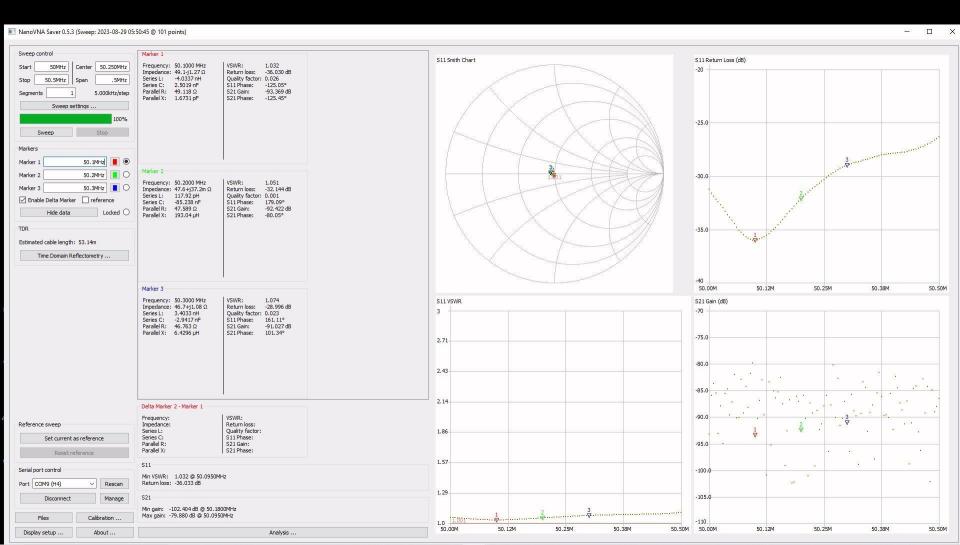
Raising Antenna at 3B9GJ



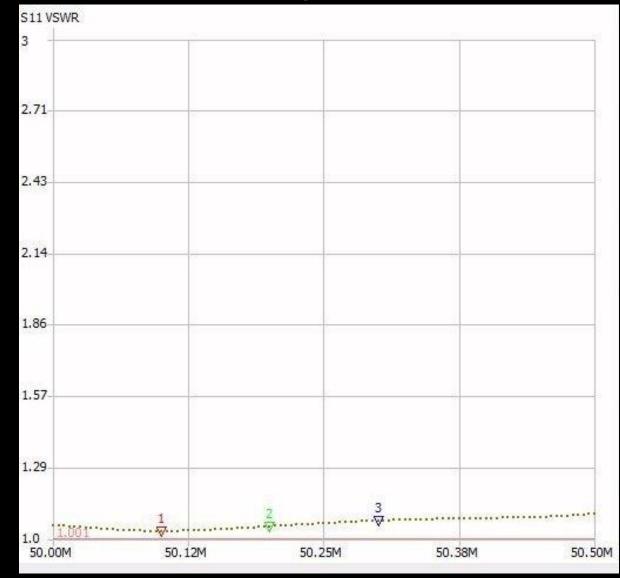
Up in time for first moonrise Tuesday, August 29



NanoVNA verifies EF0609GJ yagi is ready for action!



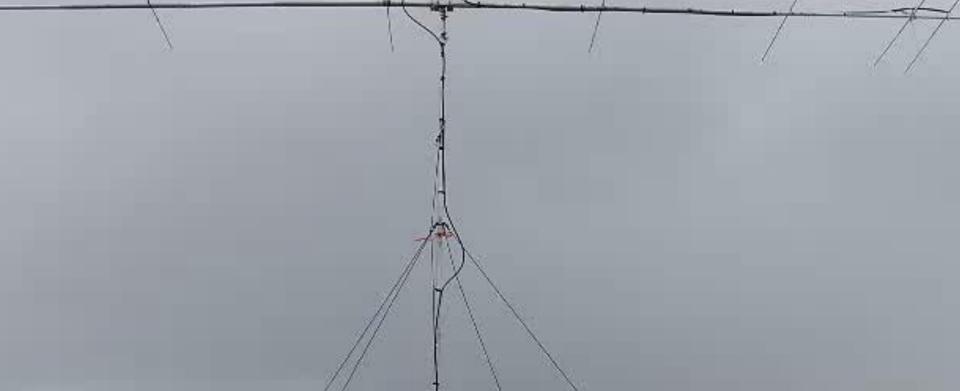
Match Remained Good During Heavy Rains



Blue Moon rising August 30



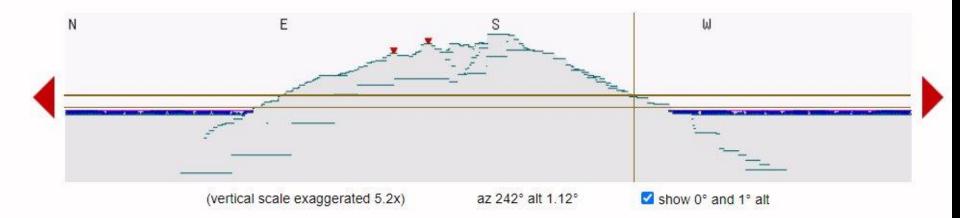
Easterly winds were very strong! Here the antenna is tied down, aimed with the wind.

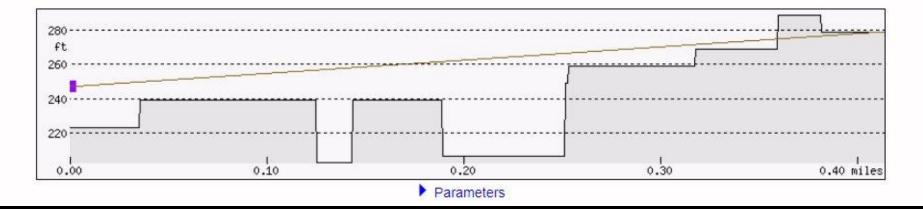


The Common Moon Problem

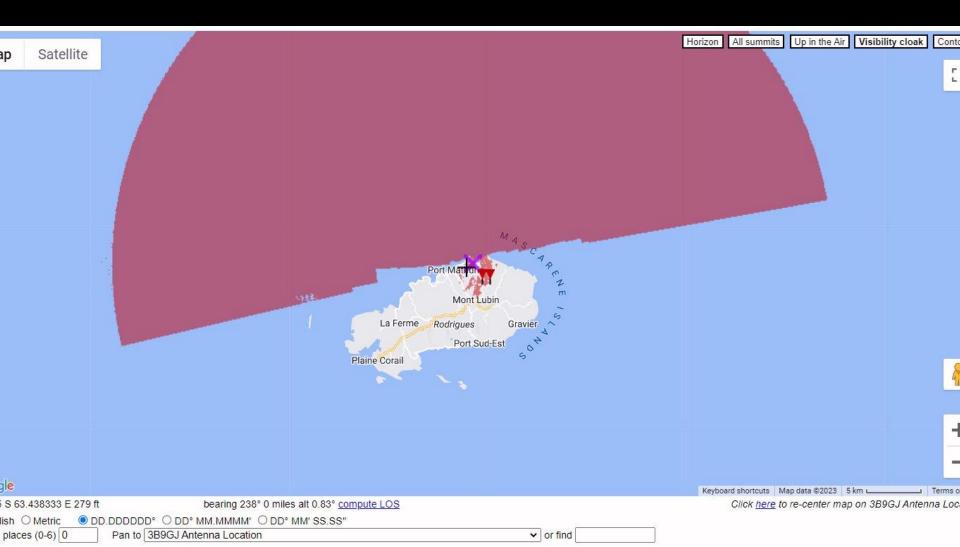
- Stations on opposite side of the Earth have limited windows
- Good horizon required both ways
- Expect many callers as moon rises for multiple stations at the same time

Horizons from Site Chosen





Negative Horizon Over the Ocean



Final Moonrise September 6

🔕 WSJT-X - Wide Graph				- <u>-</u> ×
2 500	1000	15 <mark>60</mark>	2000	2500
				DT= 2.78
	Bars Bins/Pixel 2 🗘 Start 0 Hz 🗘 Palette Adjust	Flatten C Ref Spec	Spec 20 % 🕏	
	Freq Time stamp Off V N Avg 20 Default V	Q65_Sync		- 🗆 X
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← → C ▲ Not secure on4kst.info/chat/index.php	९ 🖻 ★ 🔲 🏀 :	2023 Sep 06	Single-Period Decodes	Average Decodes
		UTC: 20:36:25 UTC dB DT Freq Az: 59.6	. 50500 00211 25 40	dB DT Freq Message
G Gmail 💶 YouTube 💡 Maps 🧱 Find QTH locator or 🐗 aprs			: 3B9GJ K7CW CN87 q3	
	UTC DX QRG SPOTTER INFO	Width: 1 2025 -26 2.8 1884	: 3B9GJ WA5VGI DM05 q3 : 3B9GJ ES6RQ -15 q0	
MENU Clickoon the map DQ EQ FQ 2	COLO CACG SPOTLER INFO KA1V 1018 K7CW 50190.0 sm7fje EME -28 3B9C 1017 OG2M 50190.0 sm7fje EME -16 DL8Y	DxAz: 59.2 2027 -32 2.9 880	: 3B9GJ WA5VGI DM05 q3 : 3B9GJ OG2M -25 q3	
	016 WA5VGI 50190.0 sm7fje EME -24 EI3K 016 3B9GJ 50190.0 sm7fje EME -22 EI3K	DxDop: 73 2027 -32 2.9 879	: 3B9GJ ES6RQ -15 q0 : 3B9GJ OG2M -25 q2	
HU BU CU UU CU FU 1	953 LU3CM 50313.6 lu8drh F18 Sent F1IX	Dec: 26.5 2029 -21 2.9 1883	: 3B9GJ WA5VGI RRR q0 : 3B9GJ ES6RQ -15 q0	
AN BN CN DN EN FN 1	951 LUSDX 50313.0 xe2g ELU3KR< JG1T 951 LW2DAF 50313.0 xe2g EL03KR< JG1T	SunAz: 135.0 2031 -21 2.8 1799 2031 -18 2.8 987	: 3B9GJ K7CW CN87 q3 : 3B9GJ WASVGI RRR q0	
AM BM CM DM EM FM 1	950 LUGAEA 50313.0 Xe2g ELU3KR< JO1L 924 CE6TK 50313.0 ww1l FT8 -18 c K1LC	Freq: 50.2 2033 -22 2.8 1798		
	914 CE6TK 50313.0 nh4x FF31 ELS K2ZE 913 LU8DRH 50313.0 w4mw FF81 EM K2ZE	Tsky: 6979 2033 -22 2.8 1799 Dpol: -84.6 2035 -23 2.8 1799		v.
EME (all bands/modes)	638 SV2JAO 50313.0 sv8mqp 163730 - K3SV	MNR: 0.2 Dist: 389772 Log QSO Stop	Monitor Erase Clear Avg Dec	ode Enable Tx Halt Tx Tune Menus
MESSAGES	439 9A/S51DI 50314.6 ei7bmb FT8 K7D		0.190 000	Generate Std Msgs Next Now Pwr
20.33.30 3B9GJ Lance WA5VGI RRR q0 1	438 N1KWF 50260.0 R4qs MSK144 K9Mi 328 DF4UE 50313.0 f4izv FT8 JN36 K0DS			
20:31:58 VK2XN Wayne 3B9GJ ?????? q0 Rodriguez	231 YB3MM 50314.7 jj4dqy FT8 KA9C			Drift 0 🗘 (*** ES6RQ 3B9GJ MH10 O Tx 2
20:31:37 NN7J Dan w3xs calling cq on Lance	156 KZ4RR 50145.0 ke5jxc EL39UW KB7C	F F14	2: 341 9284 km Report -21 🗘	ES6RQ 389GJ R MH10
this contaiting a	QthTime foF2 Time foEs Time iTec	-20 MSK		ESGRQ 389GJ RRR O Tx 4
20:29:55 SM7FJE Bo (ES6RQ) Tere Ants, long time no hear/see but now I do -12 earth bound! GL!		Q65 20	20:36:25	✓ Tx6 ESGRQ 3B9GJ 73 ✓ ○ Tx 5 □ CQ 3B9GJ MH10 ○ Tx 6 □
20:28:57 3B9GJ Lance I am using NA VHF Contest Mode with Q65-60A		100% Windows (C Tx: ES6RQ 389GJ R MH10 Q65		25/60
	*	10076 WINDOWS (CL		20/00



WSJT-X - Astronom...

2023 Sep 06 20:36:25 UTC: 59.6 Az: El: 4.8 99 SelfDop: 1 Width: 2.60 Delay: DxAz: 59.2 DxE1: 11.0 73 DxDop: DxWid: 1 26.5 Dec: SunAz: 135.0 -71.6 SunEl: 50.2 Freq: 6979 Tsky: Dpol: -84.6 MNR: 0.2 389772 Dist: -5.1 Dgrd:

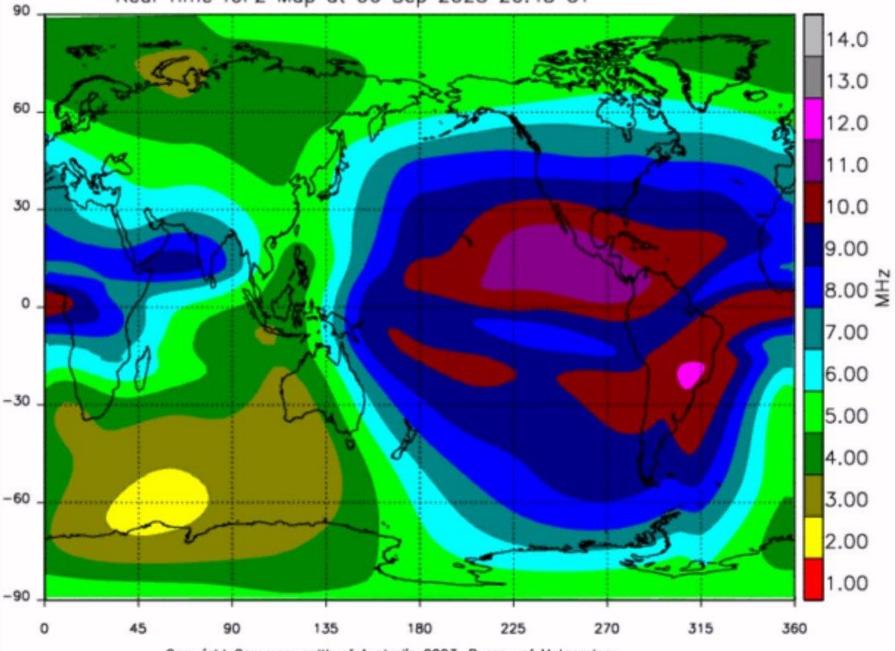
Doppler tracking

WSJT-X v2.7.0-rc2 by K1JT et al.

Configurations View File Mode Decode Save Tools Help

Single-Period Decodes UTC UTC Message dB dB DT Freq JESOG OGELL 44 20 40 4 2025 -28 2.8 1799 : 3B9GJ K7CW CN87 q0 2025 -27 2.8 1799 : 3B9GJ K7CW CN87 **q**3 2025 - 152.8 986 : 3B9GJ WA5VGI DM05 q3 2025 -26 2.8 1884 : 3B9GJ ES6RO -15 q0 2027 - 172.8 987 : 3B9GJ WA5VGI DM05 **q**3 2027 - 32880 : 3B9GJ OG2M -25 2.9 **q**3 2027 - 182.9 1883 : 3B9GJ ES6RO -15 q0 2027 - 322.9 879 : 3B9GJ 0G2M -25 q2 2029 -11 2.8 987 : 3B9GJ WA5VGI RRR q0 2029 -21 2.9 1883 : 3B9GJ ES6RO -15 q0 2031 -21 2.8 1799 : 3B9GJ K7CW CN87 q3 2031 -18 2.8 987 : 3B9GJ WA5VGI RRR q0 2033 -21 2.8 987 : 3B9GJ WA5VGI RRR q0 2033 - 222.8 1798 : 3B9GJ K7CW CN87 q0 2033 - 222.8 1799 : 3B9GJ K7CW CN87 q3 2035 -23 2.8 1799 : 3B9GJ K7CW CN87 **q**3 Clear Avg Decode Log QSO Stop Monitor Erase Tx even/1st 50.190 000 6m + Tx 1500 Hz H DX Call DX Grid F Tol 10 \$ ٧ Submod -80 KO28WA FT8 ES6RQ \$ Rx 1797 Hz Max Drif -60 9284 km Az: 341 1.

Real Time foF2 Map at 06 Sep 2023 20:45 UT



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Q65 Pileup Overview

- Developed to quickly work multiple Q65 callers
- Decoded Callers are added to Active Stations List box
- ASL stations decoded with maximum sensitivity
- Not necessary to have ASL callsigns in the DX CALL box
- Possible to call various stations
- Several times multiple RRR received in the same sequence

Sample Q65 Pileup Active Stations List

N	Freq	Call	Grid	El	Age (h)
1.	1025	HB9Q	JN47	24	0.1
2.	1390	W5WP	EM00	39	0.1
3.	1415	IW5DHN	JN53	24	0.1
4.	1555	W8PAT	EN81	45	0.0
5.	1582	K7ULS	DN41	27	0.1
6.	1587	WOVB	DN74	30	0.0
7.	1625	K4PI	EM73	49	0.0
8.	1738	WB9Z	EN60	44	0.0
9.	1897	N3XX	EM73	49	0.0

3B9GJ Results

- (76) 6m EME Q65 Pileup Contacts
- (19) 6m TEP FT8 Contacts
- (2) 6m Direct FT8 Contacts
- (1) 6m Direct Q65 Pileup Contact

76 6m EME Pileup Contacts

1	JG1TSG	21	OH7KM	41	K5XI	61	W6UC
2	JA7QVI	22	ZL3NW	42	JE3GRQ	62	K6QXY
3	ZL1RS	23	N3XX	43	OH3SR	63	W7GJ
4	ZS4TX	24	K4PI	44	SM7FJE	64	AJ7LL
5	ZS6NK	25	S 59A	45	OZ1DJJ	65	NJ6P
6	G8BCG	26	W9JN	46	K8CX	66	KB7Q
7	PJ4MM	27	NV9L	47	KA9CFD	67	K7KX
8	VK3DUT	28	N9IW	48	K9CT	68	KL7HBK
9	JO1PSX	29	N8RR	49	W3UUM	69	WW1L
10	JA9SJI	30	XE2OR	50	K5RK	70	K1SIX
11	VK5PJ	31	N5DG	51	NJ6D	71	WA5VGI
12	KJ9I	32	W8IW	52	W6XU	72	ES6RQ
13	W5WP	33	W8PAT	53	K6EME	73	OG2M
14	K2ZD	34	N7NW	54	WW2DX	74	HA8FK
15	W9GA	35	NU4E	55	N7IP	75	N4BAA
16	K9RX	36	N8DX	56	PC5C	76	OH2BC
17	W0GJ	37	N1DG	57	PA5Y		
18	WB9Z	38	W8UV	58	IW5DHN		
19	VK2XN	39	PY2XB	59	F1IXQ		
20	S57RR	40	N7NR	60	AA7A		

3B9GJ 6m Station







What's Next?

ZD9
H44
T2



THANK YOU!