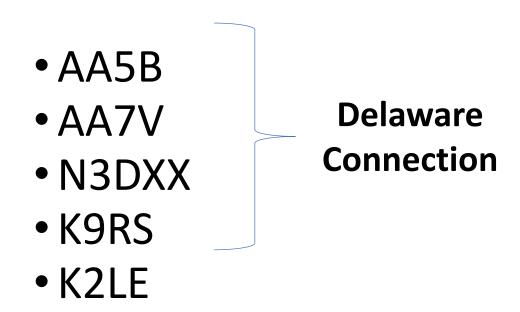
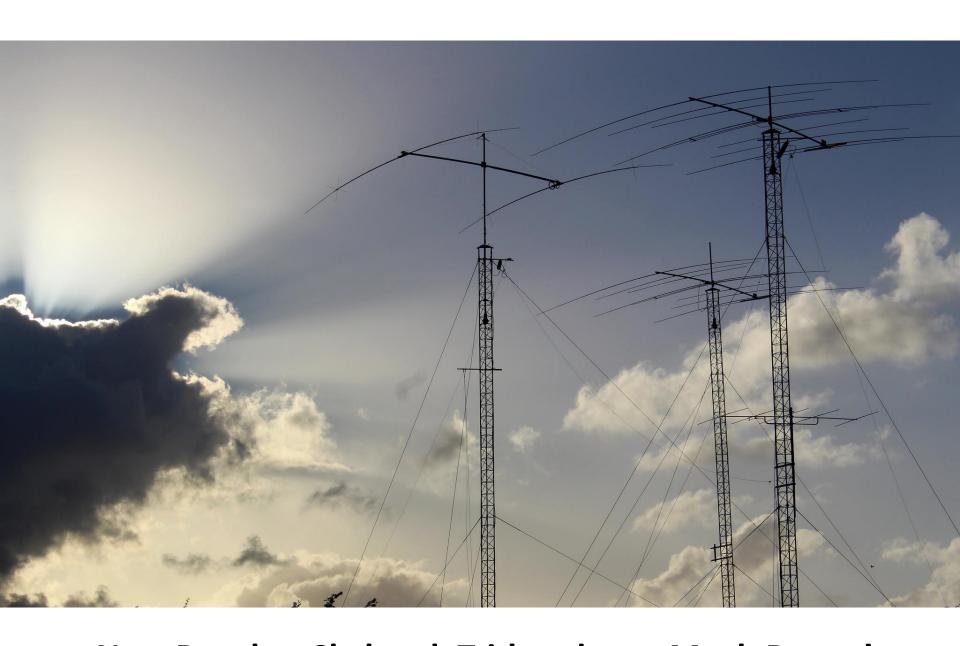
Aruba 3.0



Back to P49V station. This time for ARRL CW DX 2018.





New Bencher Skyhawk Tri-banders – Much Better!



Now using K3 Radios

Much better for copying when lots are calling!

My ideas for 2 Antenna improvement projects for this trip:

- Beverage antenna
- 80 meter director













2 elements on 80M?

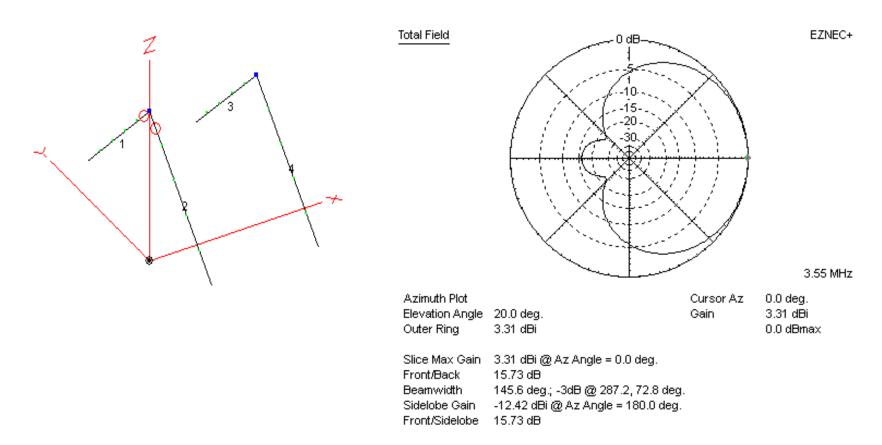
- Front tower is about 50 ft in front of 40M tower
- And right towards the US
- Only 65 ft high at the center

Could I add a director? and Would it matter?

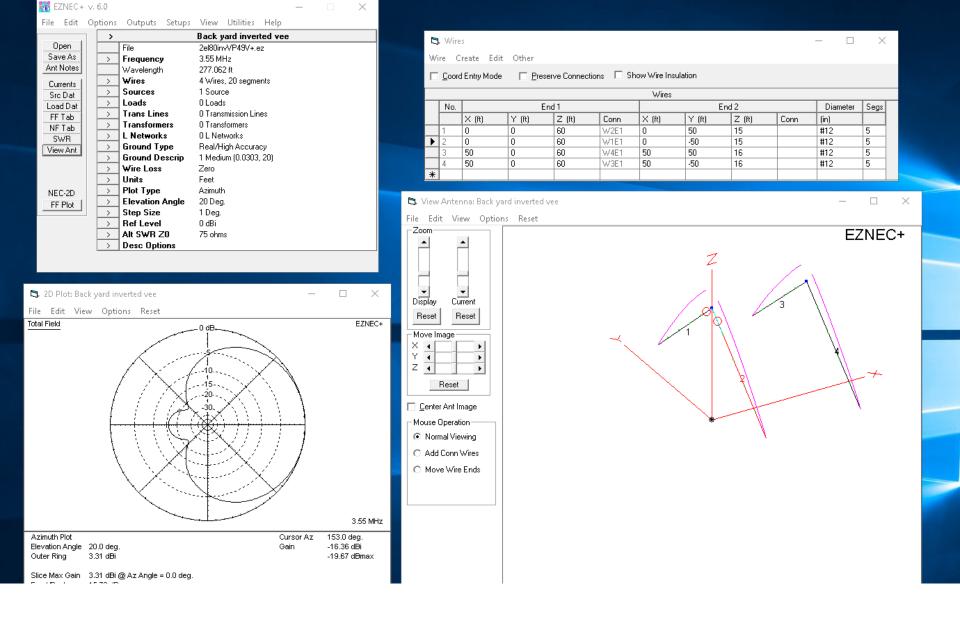
Yes and Yes



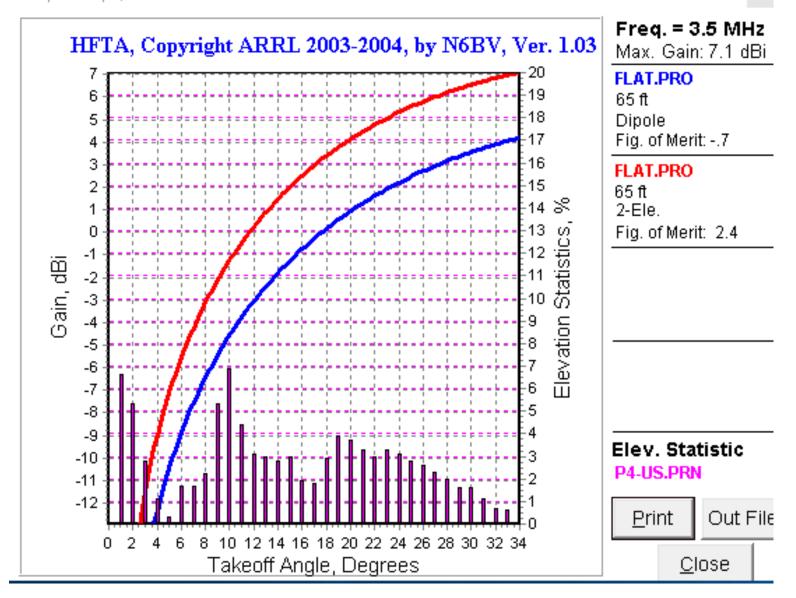
Modeled using EZNEC6



Director only 2% shorter than Driven



This is what it looks like to model with EZNEC



Use HFTA to look at useful angles from P4 to US

What did it take to do it?

- Repositioned 80M inverted V broadside to US
- Climbed front tower and attached director
- Find some tie points
- Folded back 6 feet of one end as it wouldn't fit

Antennas are forgiving, particularly at the ends



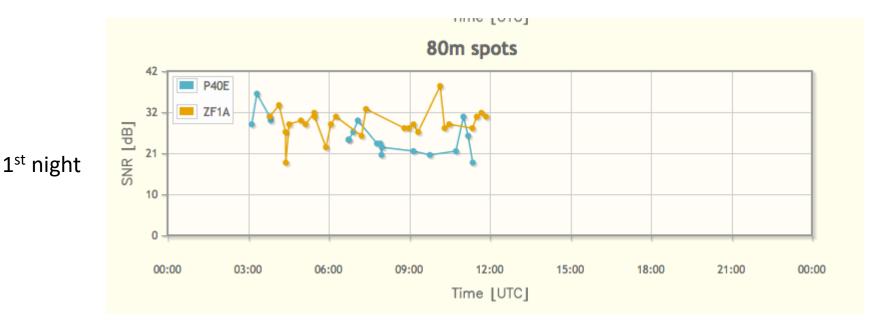




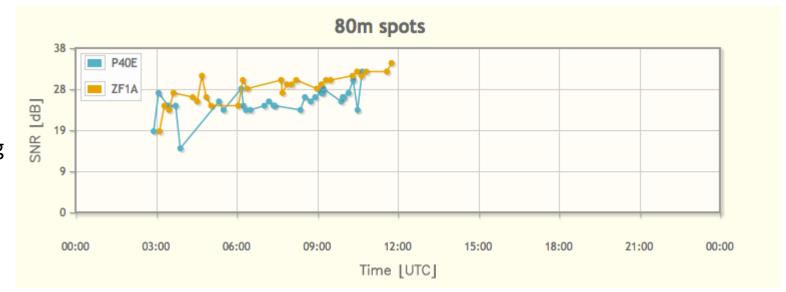
Tested using the Reverse Beacon Network (RBN) http://www.reversebeacon.net/

- Called CQ using P4/K9RS
- Lowered director
- Called CQ using P4/AA5B
- Data from the US varied from +1 to +7 dB with director vs without director
- Average +3dB with Director
- Data from Europe was the same with or without

Also used RBN to compare to ZF1A



2nd night After changing director



2018 ARRL CW DX

BandQSOsMults160:3575680:6875840:15006020:14566115:12345910:56145

Total: 5795 339

Total Score 5,892,498

2018 ARRL DX CW Results

M/S HP						I		
Call	SO2R	Remote	QSOs	Mults		Op Time	Score	Club
ZF1A			62	84	333	48	6,262,731	Cayman ARS
<u>P4ØE(@P49V)</u>			57	95	339	48	5,892,498	FRC
<u>VP2MSS</u>			56	53	322	47	5,444,376	
KP2M(@NP2X)			54	94	324	48	5,324,626	PVRC
NP2N			51	99	311	48	4,849,734	WVDXC
<u>W2FU</u>			34	97	455	48	4,747,470	NCC
<u>VP5K</u>			52	28	292	48	4,577,976	MWA
K2QMF			30	58	437	44	4,007,727	OBONY
<u>CU4DX</u>			47	12	282	48	3,974,508	
KH7M(@KH6ZM)			41	71	297	48	3,716,361	AOCC

2nd place, but a good effort over 2 QSO's per minute for entire contest