

SIX METERS

UNITED

STATES FREQUENCY

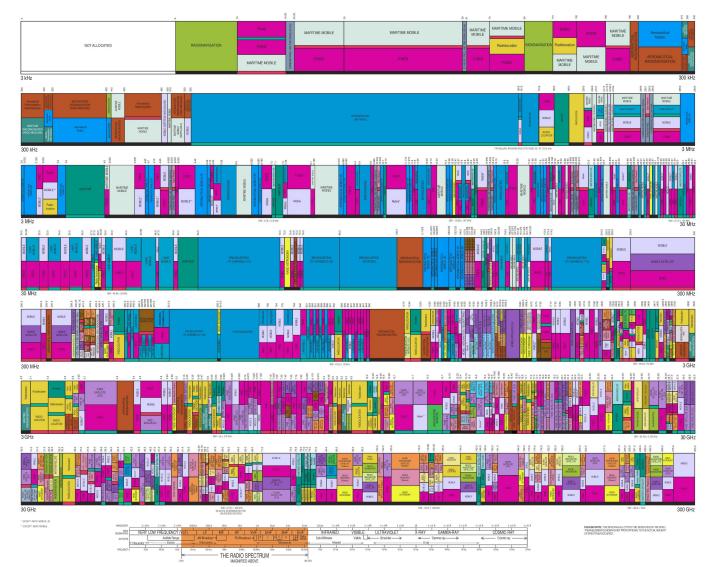
ALLOCATIONS

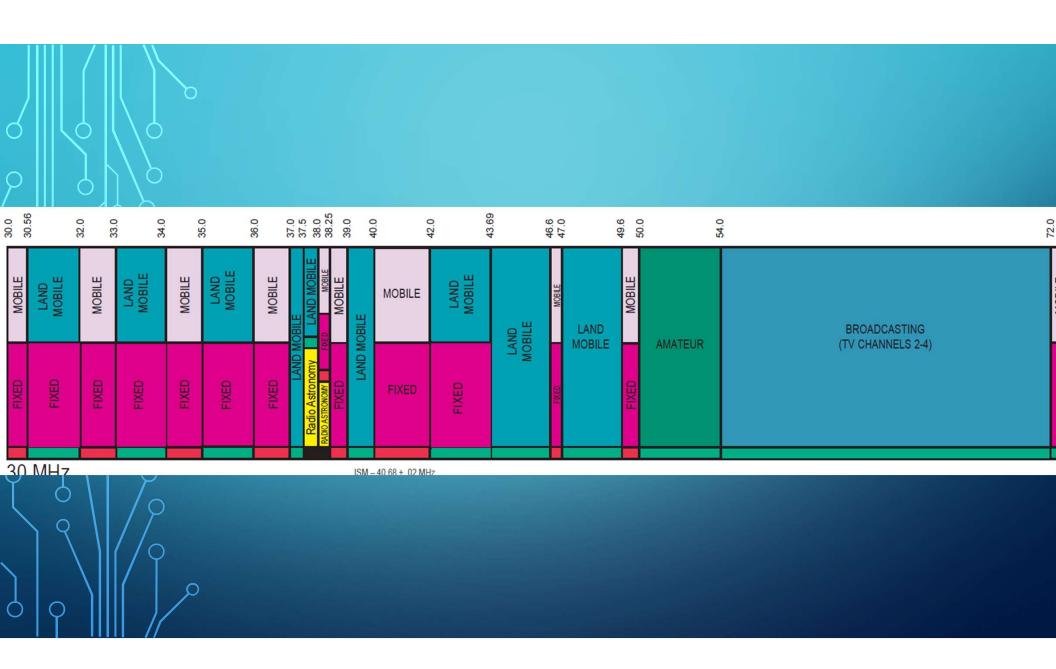
THE RADIO SPECTRUM









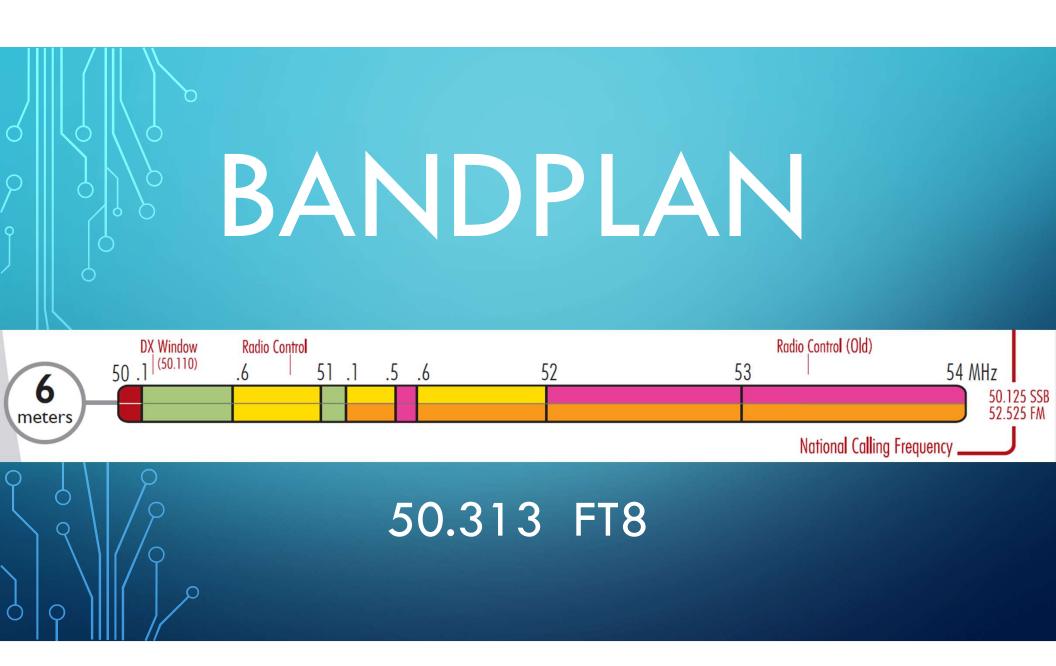


HISTORY

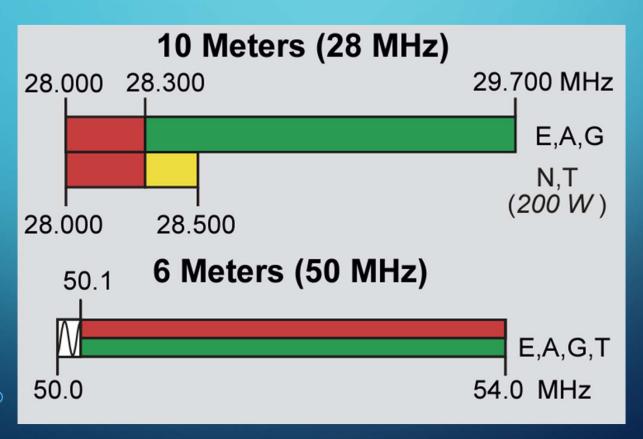
Whatever happened to TV Channel 1?

Year		6 Meter Band	FM	TV 1	TV 2
1924	US action	56-64 MHz			
1927	International action	56-60 MHz			
1934	FCC established				
1937-1938	6 MHz TV channels	56-60 MHz		44-50 MHz	50-56 MHz
1940	FCC action	56-60 MHz	42-50MHz	50-56 MHz	60-66 MHz
1941	World War II				
1946	FCC action	50-54 MHz	88-108 MHz	44-50 MHz	54-60 MHz
1948	TV 1 removed				

And what is TVI?



ALL AMATEURS HAVE SAME PRIVILEGES

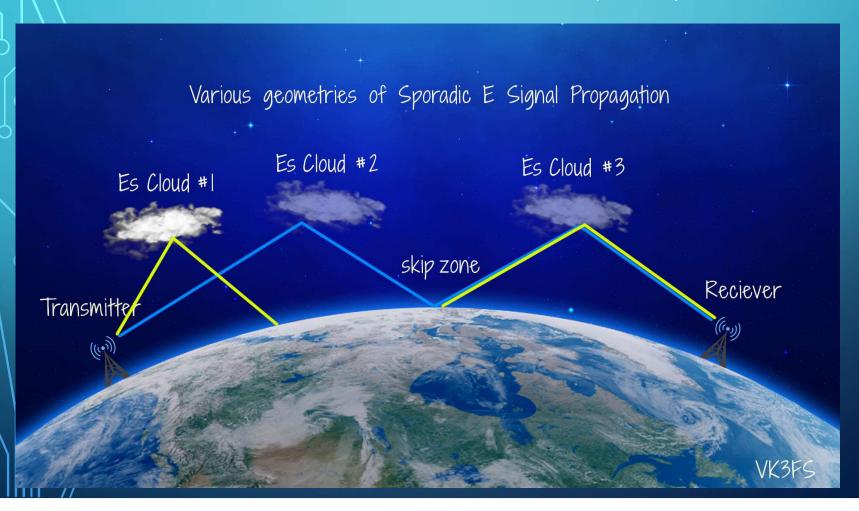


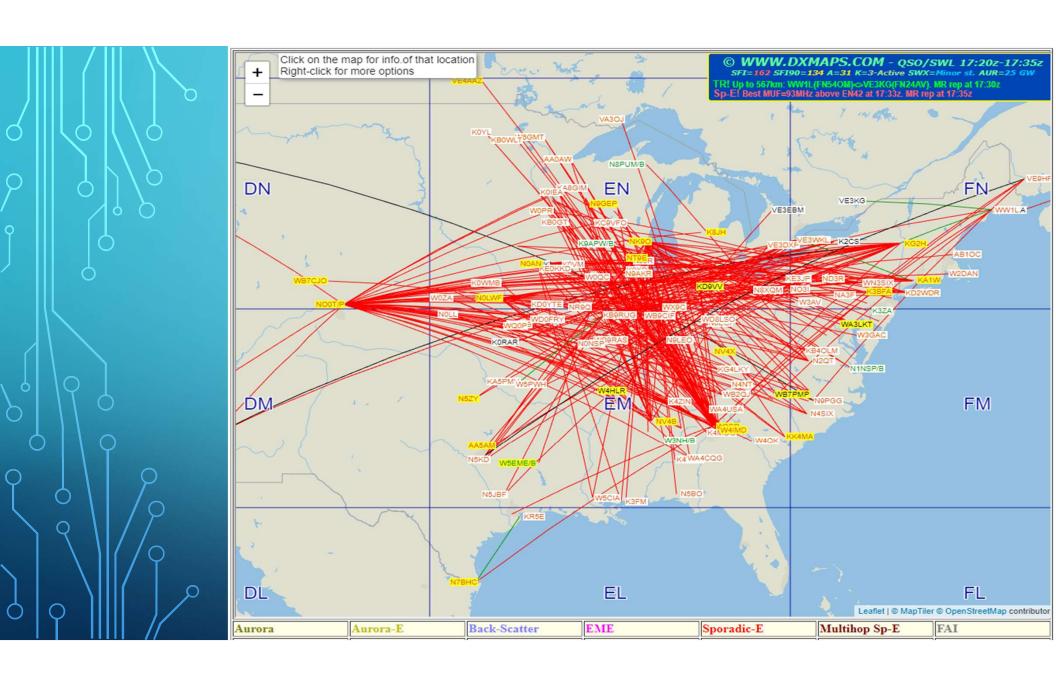


Sporadic E (Es)

- Seasonal
 May July (Northern Hemisphere)
 Smaller peak in mid-winter
- Unpredictable
 Es Clouds vary greatly in size
 They move
- Their method of creation is unknown
 Several theories wind shear
- Signals can double hop

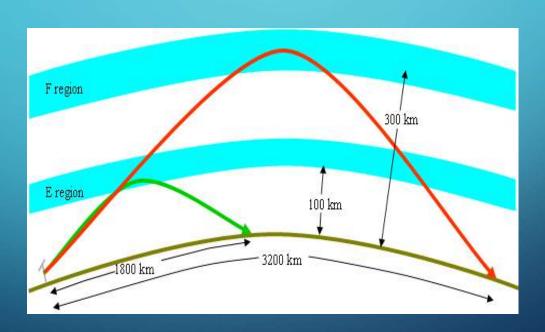
SPORADIC E (Es)





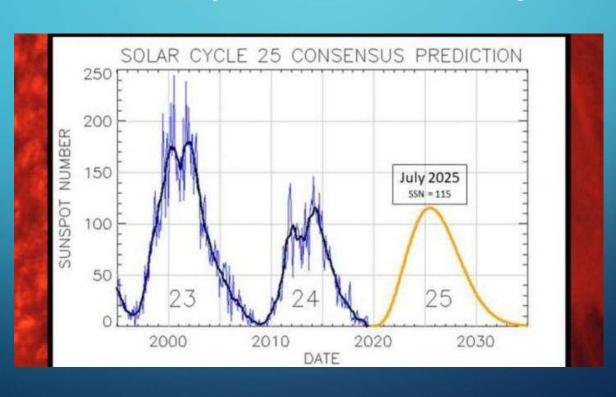
F Layer

Occurs only when solar flux is high



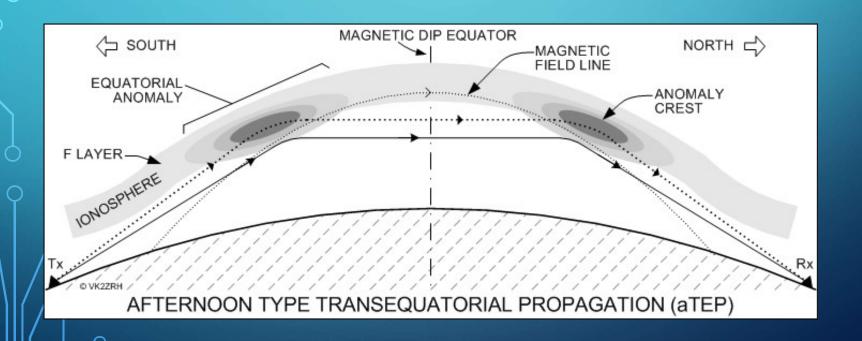
F Layer

Occurs only when solar flux is high

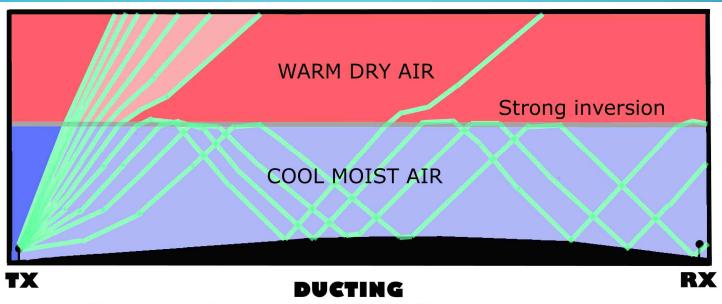


Meteor Scatter lonoscatter Region

TEP Trans-Equatorial Propagation



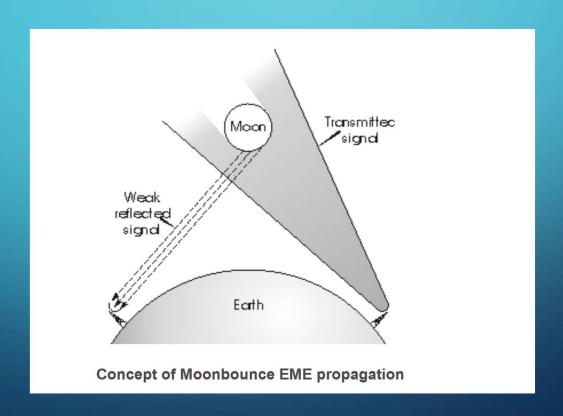
Tropospheric Ducting



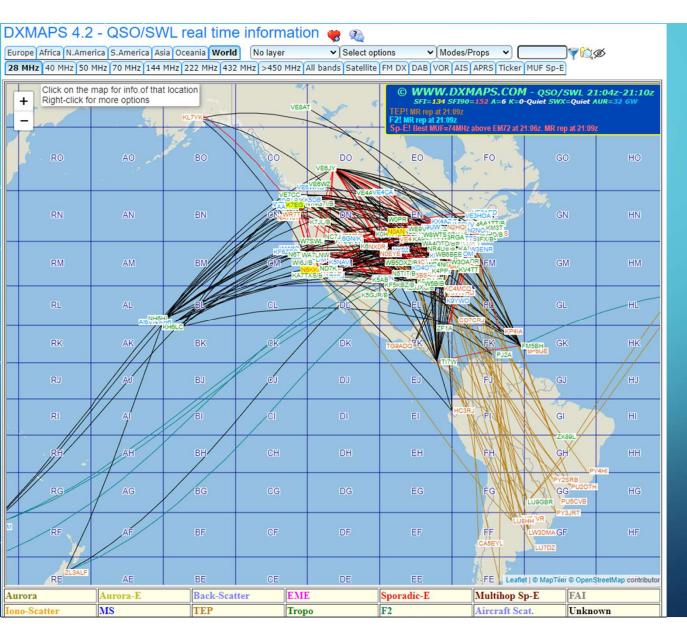
Signals bend down and reflect off the ground. RX receives signal from TX. Radar shows strong ground clutter.

W. HEPBURN

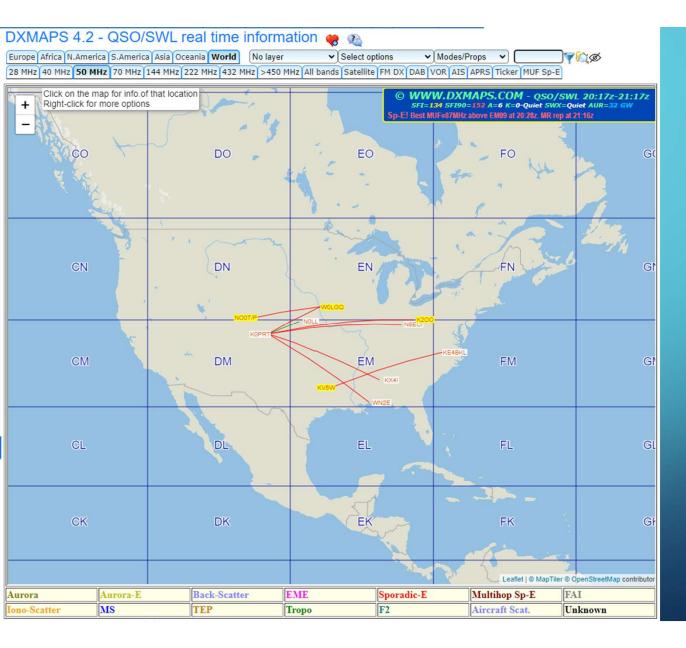
EME



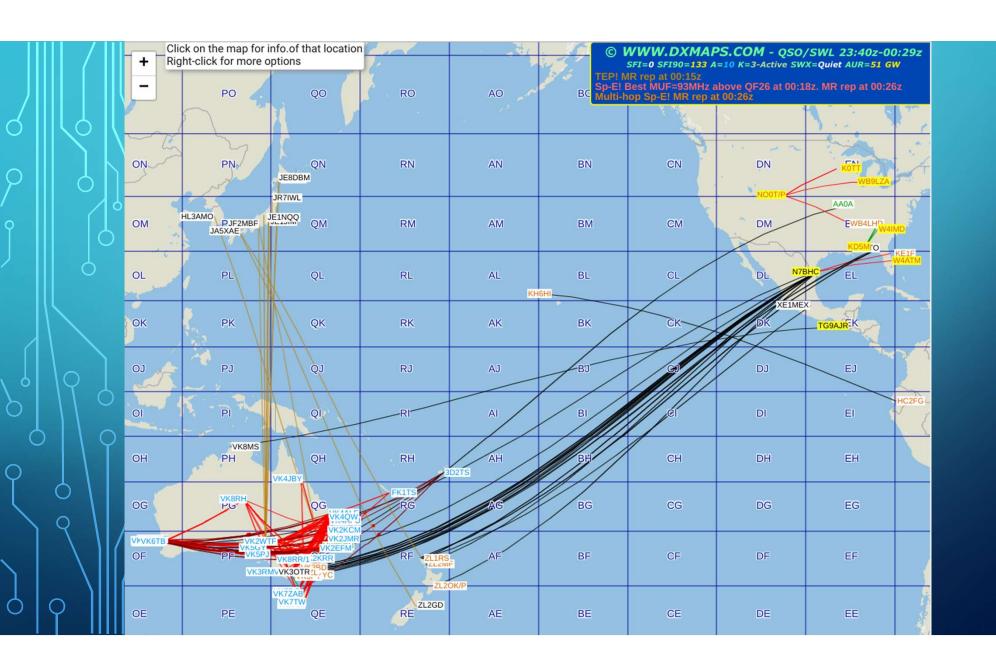




DXMaps.com



DXMaps.com

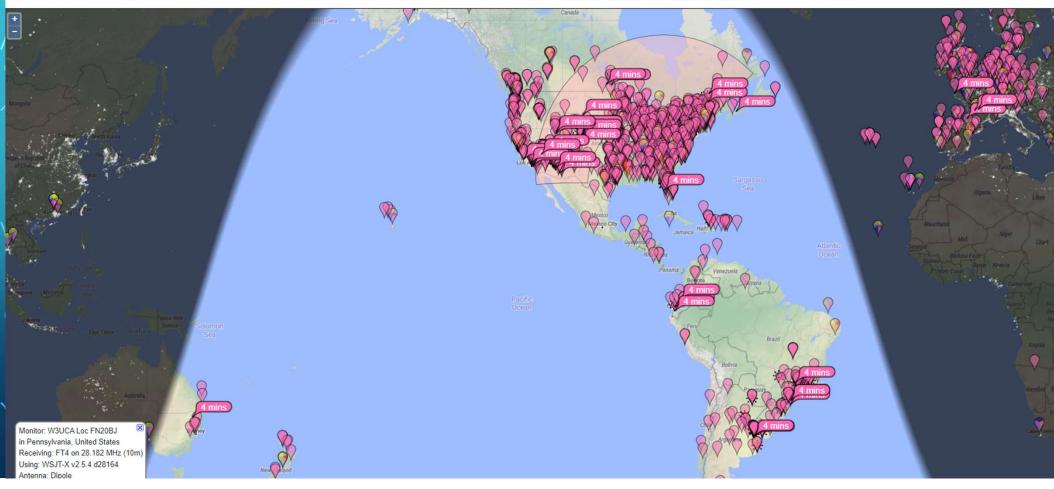


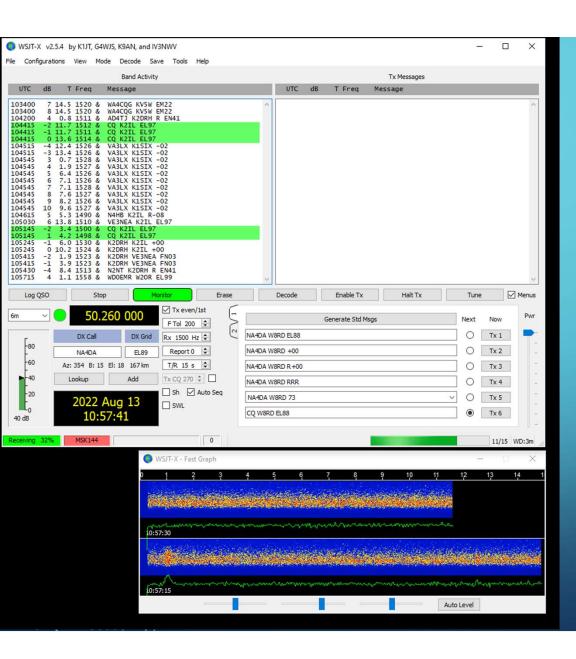
PSK Reporter

On 10m v), show (signals v) sent/rcvd by v) the callsign v) w8rd using (all modes v) over the last (2 hours v) Go! Display options Permalink

Monitoring W8RD (last heard 4 mins ago). Automatic refresh in 5 minutes. Small markers are the 51 transmitters (show logbook) heard (distance chart) at W8RD (0 reports, 14 countries last week).

There are 1613 active monitors: 1596 on 10m, 158 on 15m, 156 on 20m, 136 on 17m, 126 on 12m, 116 on 30m, 104 on 40m, 56 on 80m, 38 on 160m, 30 on 60m, 24 on 2m, 21 on 6m, 4 on 600m, 4 on 2200m, 1 on 11m, 1 on 10Ghz, 1 on 23cm. Legend





Meteor Scatter MSK144

Shower	Activity Period	
Quadrantids (QUA)	Dec 26-Jan 16	
Lyrids (LYR)	Apr 15-Apr 29	
eta Aquarids (ETA)	Apr 15-May 27	
Southern delta Aquarids (SDA)	Jul 18-Aug 21	
Perseids (PER)	Jul 14-Sep 01	
Orionids (ORI)	Sep 26-Nov 22	
Leonids (LEO)	Nov 03-Dec 02	
Geminids (GEM)	Nov 19-Dec 24	
Ursids (URS)	Dec 13-Dec 24	



Enter your message here

13Aug 11:10 stop cq

(K7ULS/6N2 Mike UT DN41bh)

Ping Jockey Central.



Relief page	Skeds in-progress	CQ Announcements	splat-65 Link
<u>Refresh</u>	<u>Look back</u>	Distance/Bearing Locator	Who's Earwigging?
Update User details	AA1YN Callsign database	Ray, W8RD FL EL880a	Refreshed 13Aug 11:20

Go!

This page is to be used only for the purposes of discussing matters related to amateur radio meteor scatter communications. Any non-meteor scatter use is strictly prohibited.

That means DO NOT USE THIS PAGE TO WORK splat-65 or for General chit-chat.

Remember, in North America, 50.260MHz and 144.140MHz are calling not operating frequencies.

Exchanging any contact details on here before you're complete, invalidates the contact, and, if it's not HIGH-SPEED METEOR SCATTER, it doesn't belong here!

```
13Aug 11:20 N5BO Justin, calling you from EM40 (W5ADD/6M Parker LA EM40wl)
13Aug 11:19 KC9ELU - Answering on 2 Mike
                                                (WA2FZW/6M/2M John NJ FN20tp )
13Aug 11:19 N1SV - tnx 2m q - ur best +13
                                                (KC9ELU Mike IN EM79hj )
13Aug 11:18 Tnx new grid
                                (N1SV Les MA FN42ep )
13Aug 11:18 111800 8 7.6 1599 & N1SV KC9ELU 73
                                                        (N1SV Les MA FN42ep )
13Aug 11:18 wow your killing it andy
                                        (KOTPP/2/6/222 Larry mo EM48rk )
13Aug 11:17 and another!
                                (N1SV Les MA FN42ep )
13Aug 11:17 111700 5 11.4 1437 & WA2FZW K2DRH RRR - Thanks again Bob - Best ~Plus~14 - Looks like 2M Es!
                                                                                                                 (WA2FZW/6M/2M John NJ FN20tp )
13Aug 11:17 full frame burn on 2m here (N1SV Les MA FN42ep )
13Aug 11:16 N2NT Andy, nice rocks on 222 on you
                                                         (<u>KØTPP/2/6/222</u> Larry mo EM48rk )
13Aug 11:16 N2NT loud here on 222 Andy (N0AKC Charlie WI EN44gu)
13Aug 11:15 NX3B Tom are you here?
                                         (<u>WQ5S/6/2</u> Brad TX EM13ci )
13Aug 11:15 N4QWZ running 222085
                                        (N2NT/6M2M/KW Andy NJ FN20si )
                                                        (N4QWZ/6/2/222 Todd TN EM66ok )
13Aug 11:13 N2NT calling 222.085 QWZ 1st running now
                        (N2NT/6M2M/KW Andy NJ FN20si )
13Aug 11:13 222085
                        (KOTPP/2/6/222 Larry mo EM48rk )
13Aug 11:12 watching
13Aug 11:12 wq0p tnx
                        (N2NT/6M2M/KW Andy NJ FN20si )
13Aug 11:12 N2NT Andy, wathing too on 222
                                                (<u>KØTPP/2/6/222</u> Larry mo EM48rk )
13Aug 11:12 111115 20 0.5 1517 & WQOP N2NT RRR thanks for the contact!!!
                                                                                 (WQ0P/6/2/222 Greg KS EM19wf )
13Aug 11:11 N2NT, will be listening in on 222.085 as well
                                                                 (WOPN/2/222 Dan MO EM39rk )
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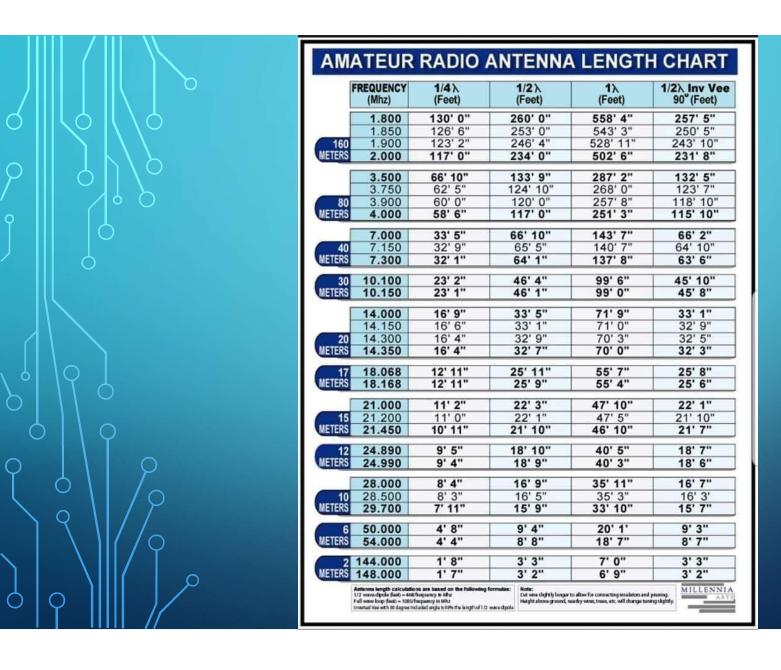


Small size due to short wavelength

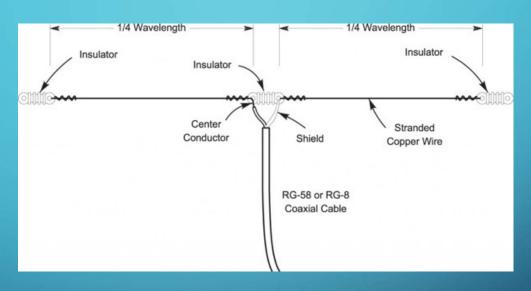
Easy to build and erect

Clever designs

Polarization becomes a factor

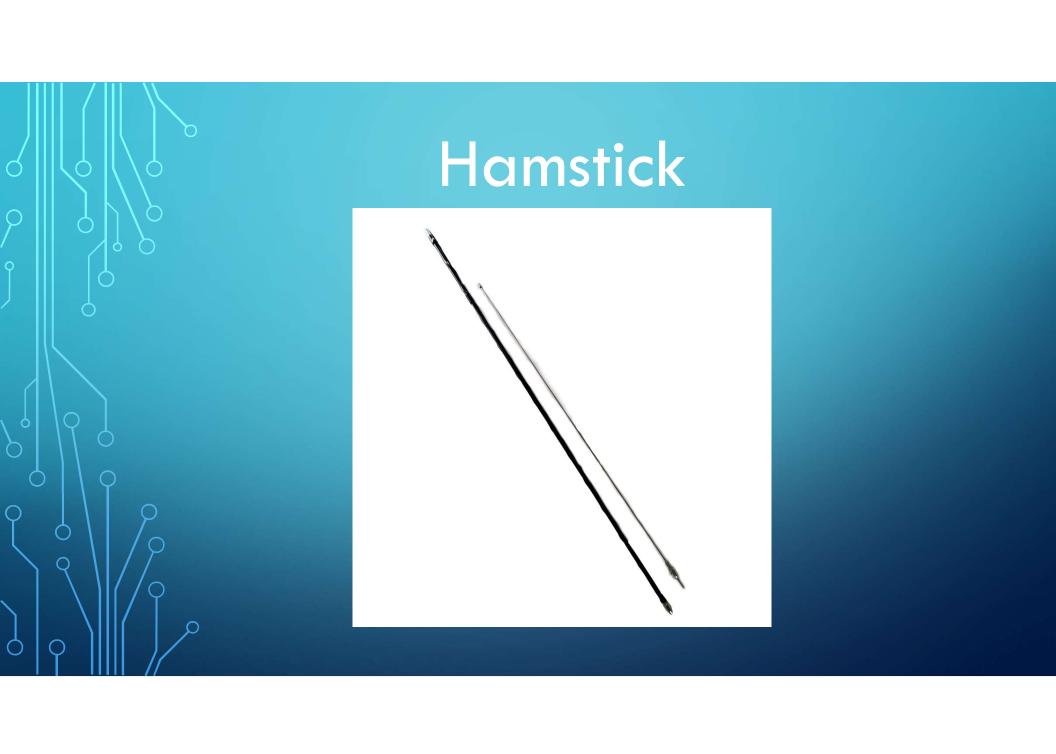


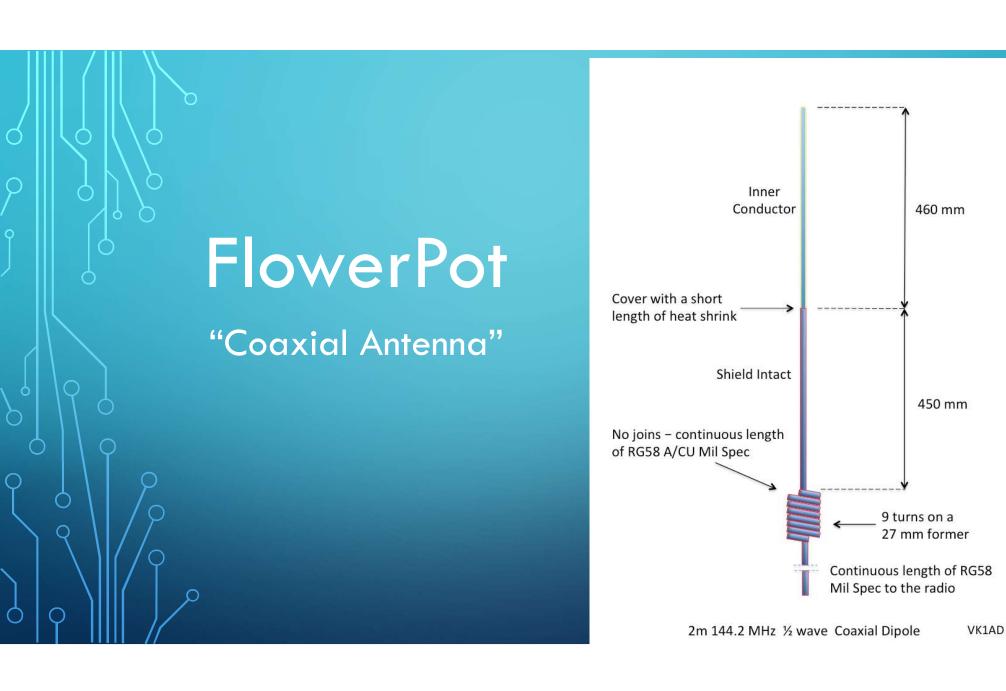
Simple Dipole

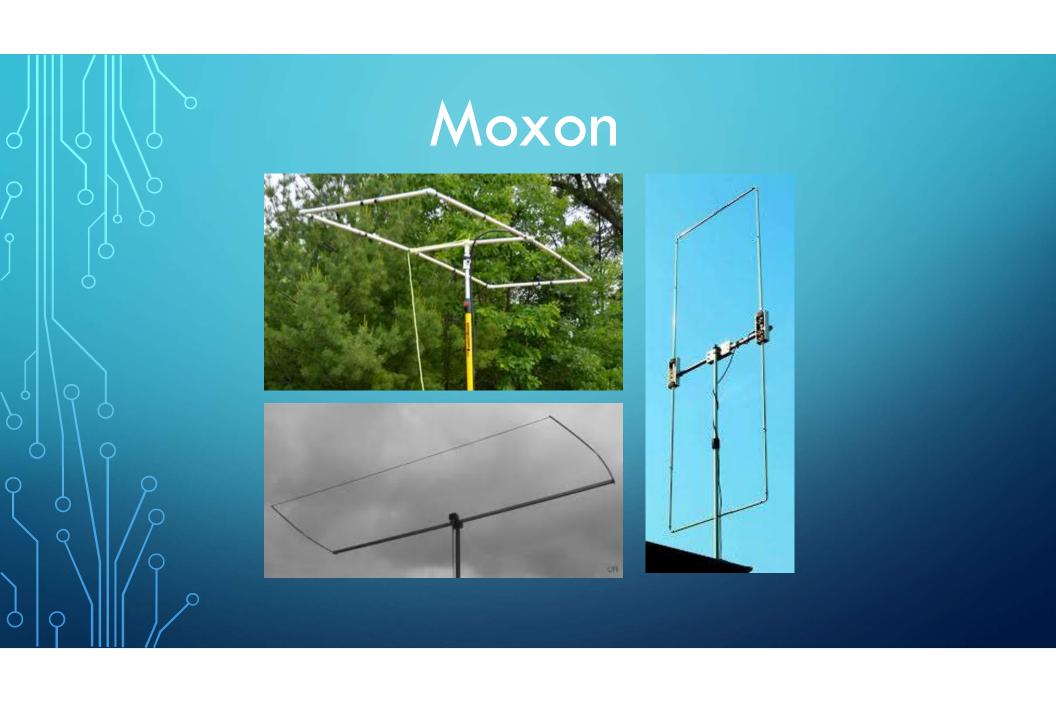


$$L = \frac{468}{f}$$

468 / 50.313 = 9.3 ft





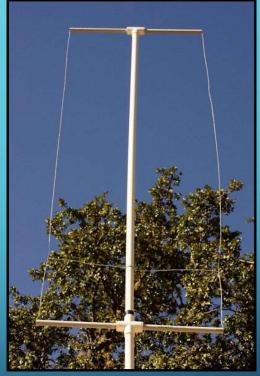












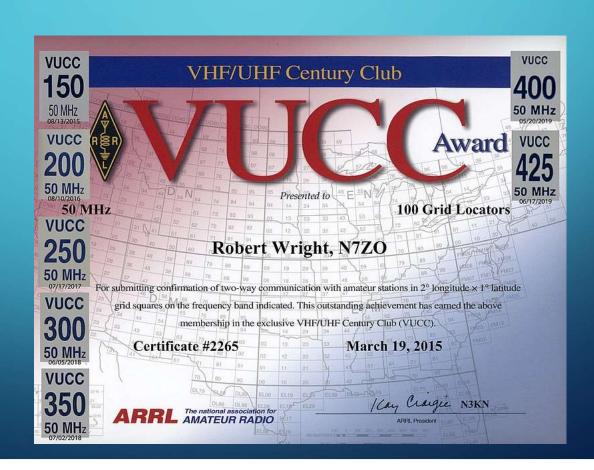


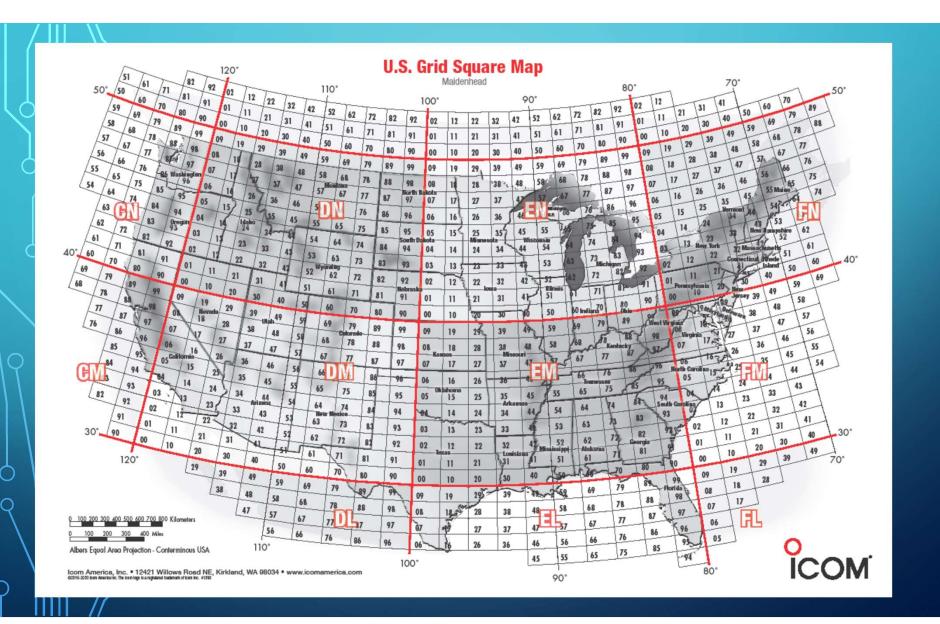


ARRL January VHF Contest ARRL June VHF Contest CQ Worldwide VHF Contest ARRL September VHF Contest

All modes are allowed CW – SSB - Digital

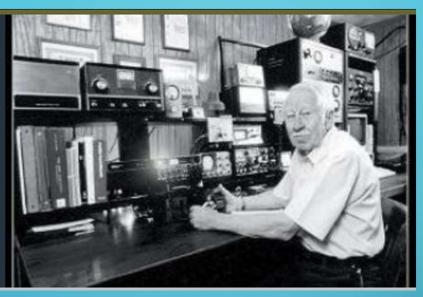
Work 100 Grids





The Fred Fish Memorial Award

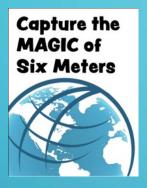
The Fred Fish Memorial Award was created in honor of Fred Fish, W5FF (SK), who was the first amateur to have worked and confirmed all 488 Maidenhead grid squares in the 48 contiguous United States on 6 Meters. The award will be given to any amateur who can duplicate W5FF's accomplishment.



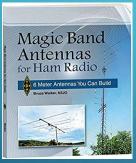




RESOURCES



Free eBook from K5ND (see K5ND.net)



ARRL Book
"Magic Band Antennas"

YouTube is your friend