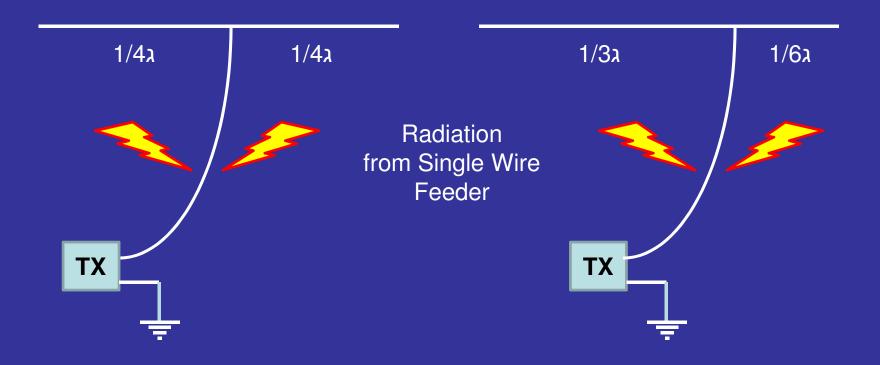
There is Windom in being Off-Center?

FRRL Program
August 2013
AH6EZ

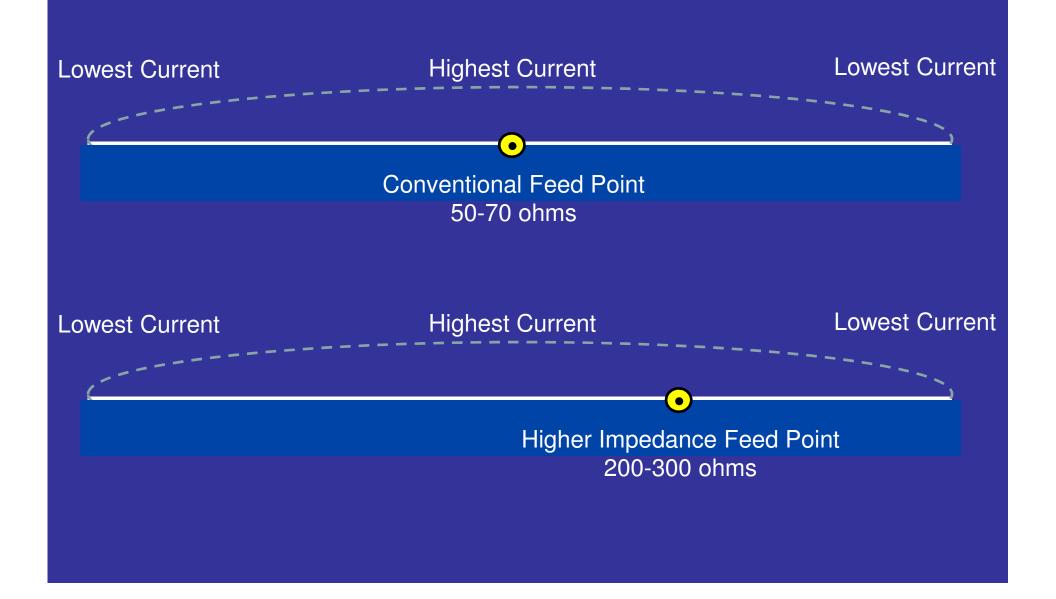
Off Center Fed Dipole

- Derived from the Windom antenna
 - Invented by W8GZ in 1929
 - Ham bands were harmonically related (160-80-40-20-10M)
 - Off-center provided higher impedance feed
 - Originally single wire feeder (not coax)
- Provides multiband (harmonic) operation
 - Remember more lobes (nulls) on upper bands
- Available commercially
- Possible to build but touchy upper band tuning
 - You may want to buy a good current balun
 - Otherwise you may experience RFI in your shack

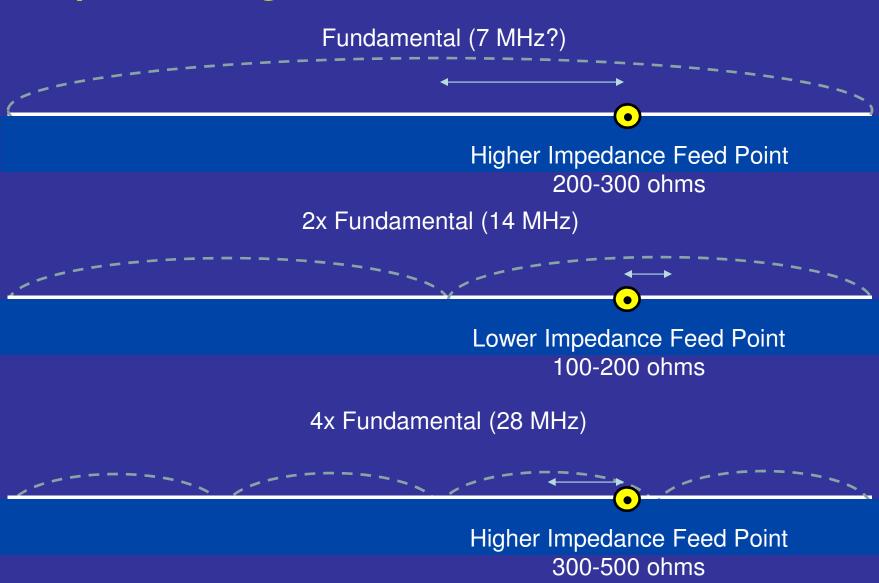
Original Hertz and Windom Antennas



Current and Impedance on ½ Antenna

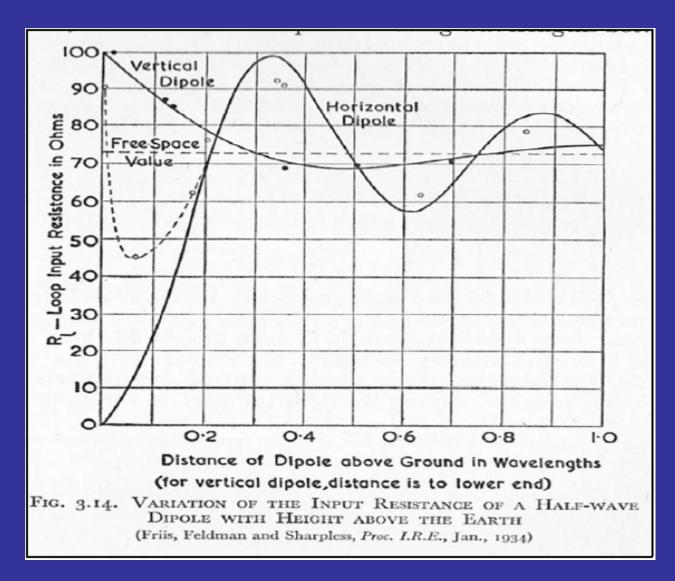


Operating at antenna harmonics



Having a single feed point on multiple bands creates compromises someplace

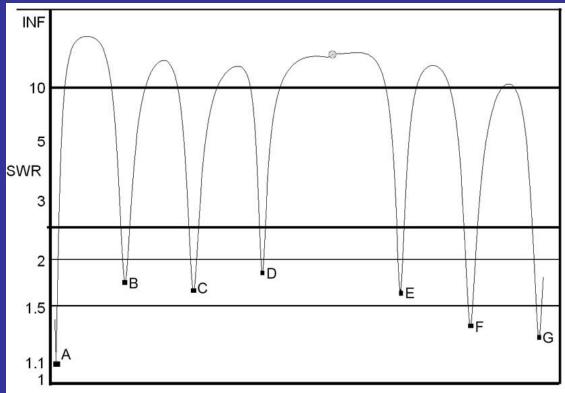
Antenna Height Affects Feed Impedance



Antenna height and nearby objects cause critical tuning of OCF compromises to change

W8JI.com Windom (OCF Dipole)

- Length: 137 feet of bare #14 to 16 AWG wire
- Height: As high and clear as possible
- Feedpoint: 80/20% 109.6/27.4 ft from one end



200 Ohm SWR Plot W8JI Windom

Graph Point	Α	В	С	D	Е	F	G
Freq MHz	3.55	7.15	10.7	14.25	21.4	25.0	28.6
SWR 200-ohm	1.1	1.7	1.6	1.9	1.7	1.4	1.3
Imp ohms	218	118	121	360	320	152	160

http://www.balundesigns.com/servlet/the-110/current-balun-4-cln-1-designs/Detail



4:1 Current Balun 1.5 - 54 Mhz for OCF Dipole - 5kW #4114ocf

Manufacturer: Balun Designs

SKU: 4114ocf

Price: \$82.95

http://hamcall.net/7bandocf.html

Buckmaster World wide DX, multi-band, no tuner required, Off-Center-Fed (OCF) Dipole Antennas



- 4-Band: 40, 20, 10, & 6 meters. 68 feet (23+45) long.
- 7-Band: 75/80, 40, 20, 17, 12, 10, & 6 meters. 135 feet (45+90) long.
- 8-Band: 160, 75/80, 40, 20, 17, 12, 10, & 6 meters. 270 feet (90+180) long.

300W	3KW
\$203	\$294
\$209	\$299
\$272	\$362

http://www.radioworks.com/OCFD%20MAX%2040.htm



All of the features of the OCFD MAX™40 + 15 but no 15meter coverage

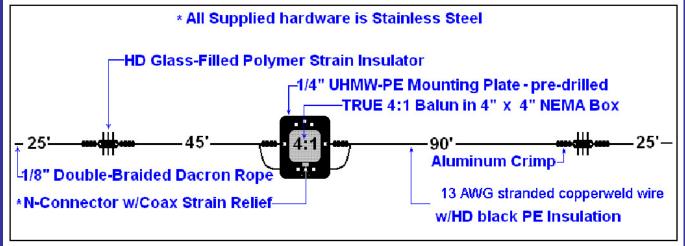
\$125

http://www.arraysolutions.com/Products/ocf_dipole.htm#top%20of%20page

Array Solutions OCF Dipoles

Built to Military Standards just like the rest of our commercial products!





\$259

MFJ-2010 300w \$60

