

Fox Hunting

Do I need a Dog?

Lets define some terms

- ARDF

- Amateur Radio Direction Finding

- Fox

- Any transmitter wanting to be found

- Directional Antenna

- Any antenna that will receive best in 1 or 2 directions.

Terms (cont.)

■ Doppler Unit

- A receiving unit comprised of 4 or more antennas that will display the direction the signal is coming from.

■ Capture effect

- The way a FM receiver works to receive or Capture the stronger of two signals.

■ Attenuation

- The ability to reduce the received signal level

Equipment

- A handheld receiver or transceiver
- A directional antenna
- A Fox to go find
- And Lots of Batteries

VHF Fox Hunting

- Maps and Triangulation are Key
- VHF Signals Reflect off terrain, buildings, water towers and numerous other objects
- Don't be fooled by a moving target.
- Use your brain and apply common sense.

Attenuation

- The wrong antenna might be the right antenna.
- Use the antenna null to your advantage
- Attenuators
 - Step Attenuator
 - Offset Attenuator

Attenuation (cont.)

- Remove the Antenna
- Use your head or your body (which ever is thicker).

Resources

- www.arrl.org
- www.google.com
 - ARDF, Fox Hunting, Direction Finding
- http://theleggios.net/wb2hol/projects/rdf/tape_bm.htm
- <http://www.ardf-r2.org/>
- <http://www.ardf-r1.org/events>
- <http://www.homingin.com/equipment.html>

Resources

- https://en.wikipedia.org/wiki/Direction_finding
- https://en.wikipedia.org/wiki/Radio_direction_finder
- <http://telekomunikacije.etf.bg.ac.rs/predmeti/ot3tm2/nastava/df.pdf>

A Small Yagi

- This small yagi was optimized for hunting the third harmonic, 439.695 , on foot. It has great front-to-back ratio as well as front-to-side. The boom is a 3/4" wood dowel and the elements are brazing rods cut to size. Nothing fancy here, but it works great!!

