

NEW HAM CLASS

OR EVERYTHING YOU WANTED TO KNOW BUT WERE AFRAID TO ASK



Antennas

- Disclaimer – Don't take everything in this presentation as absolute fact; its how I understand it
- All antennas are some variation of a dipole
- Generally, the bigger, the better
- Always, the higher, the better
- Antenna performance depends on lots of uncontrollable factors

Antenna Basics

- If it works, don't fix it
- If it works, check every now and then that it still works like it did
- If it works, make it work better
- But be sure that you can get back to where you started.

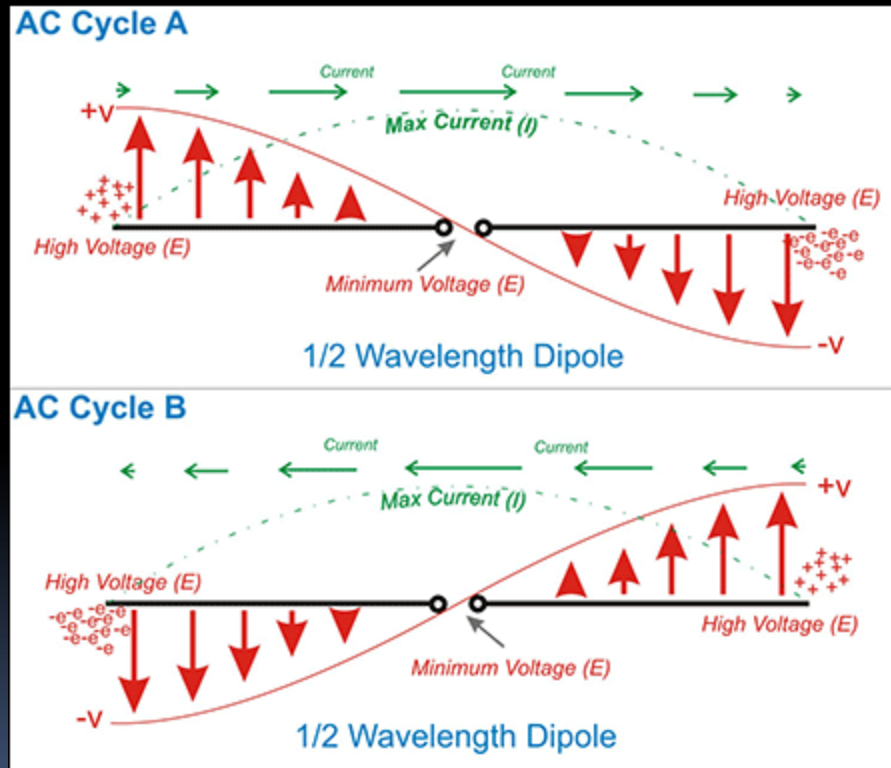
Antenna Basics

So, how do you “test” an antenna?

- Measure the SWR
- Compare its receiving performance to another antenna
- Ask other hams if they can hear you and to report on your RST

Antenna Basics

- What is SWR ?



Antenna Basics

- How to measure SWR
 - Use a power meter that measures in both directions
 - Use a SWR meter



Antenna Basics

How to correct a high SWR?



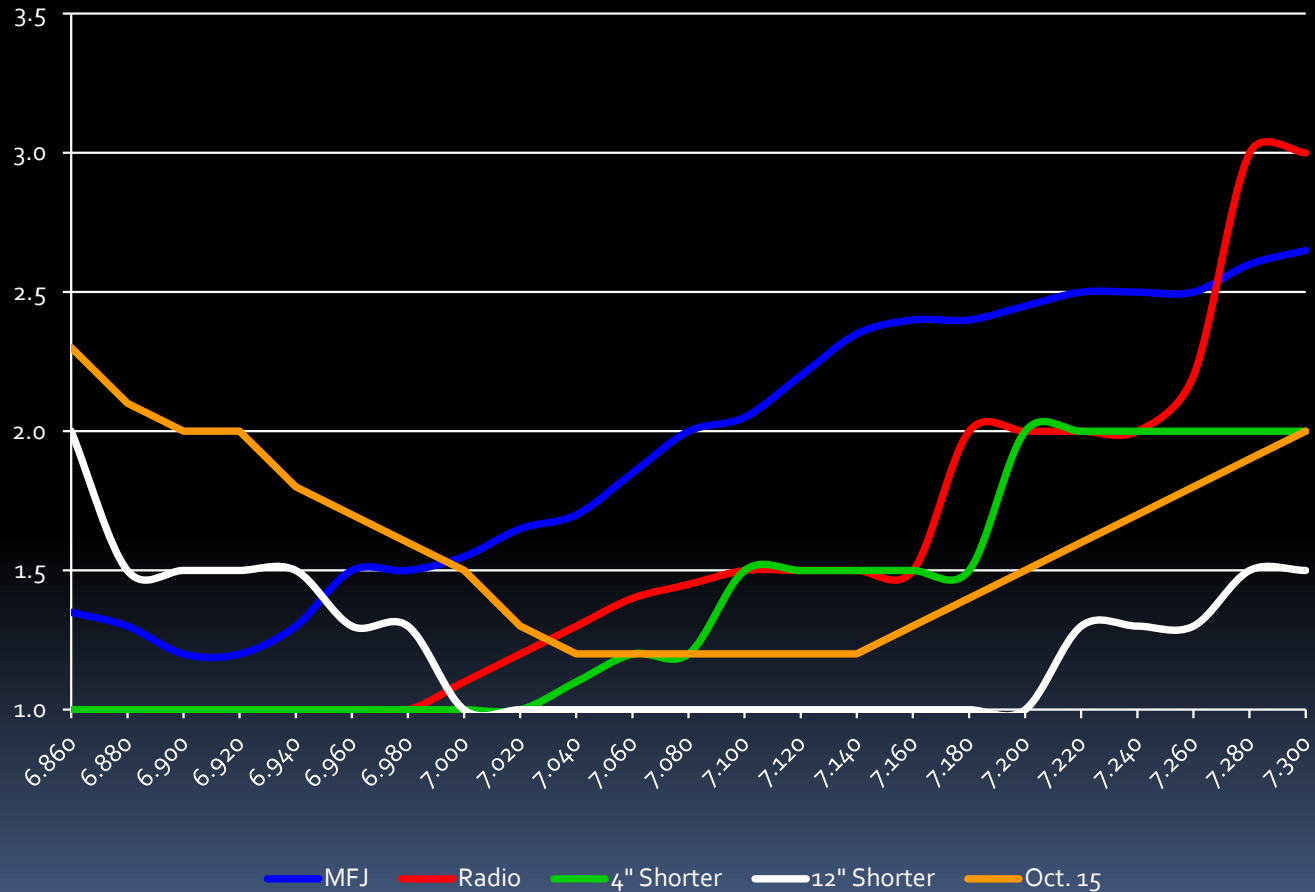
Antenna Basics

How to correct a high SWR?

- Do a sweep of the band
- Shorten the antenna to move the null higher
- Lengthen the antenna to move the null lower
- Sweep the band to verify and keep a record.

Antenna Basics

40 m Dipole SWR



Antenna Basics

Lets test an antenna!

Wrap-up

- Questions
- Dennis – KJ6UVQ@arrl.net
- This presentation is available as a pdf at:
Laemcomm.org