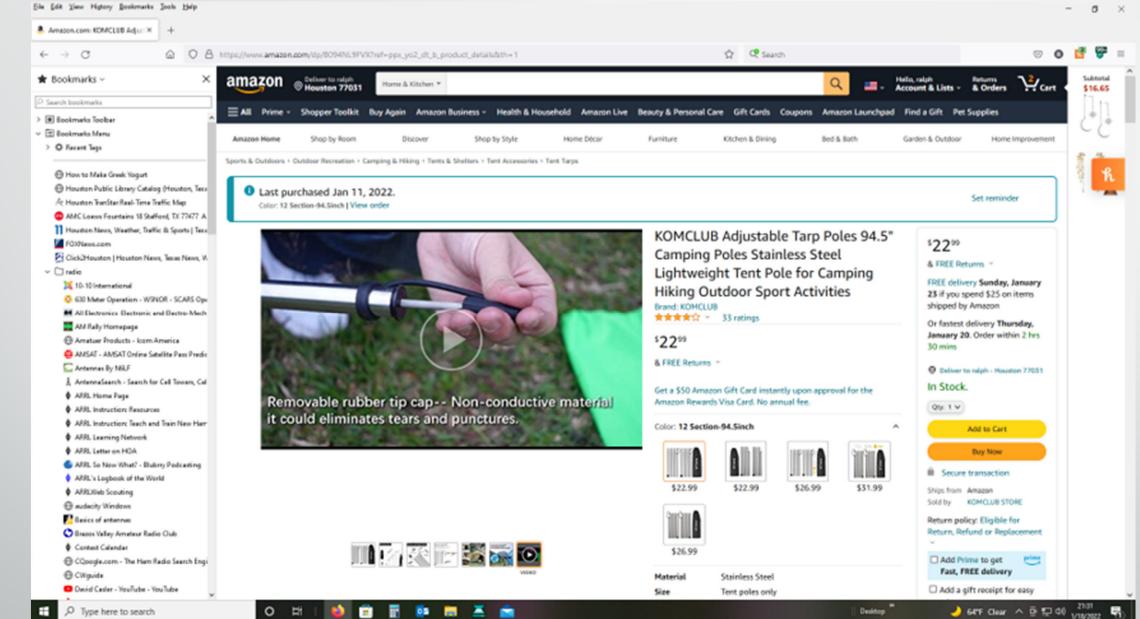
Portable vertical antenna from canopy poles KE5HDF Ralph phillips Jan. 20, 2022

Why a Vertical

- I wanted something portable for
 - Field day
 - camping
 - POTA
 - Emergency set up with no tall trees or other structure for support of dipole
 - Easy set up



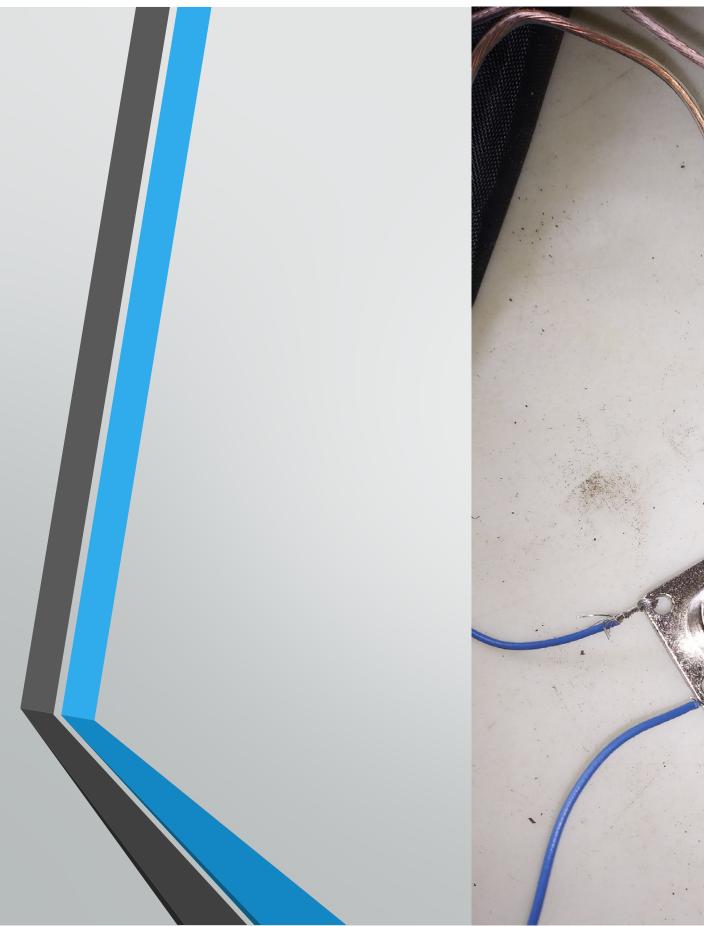








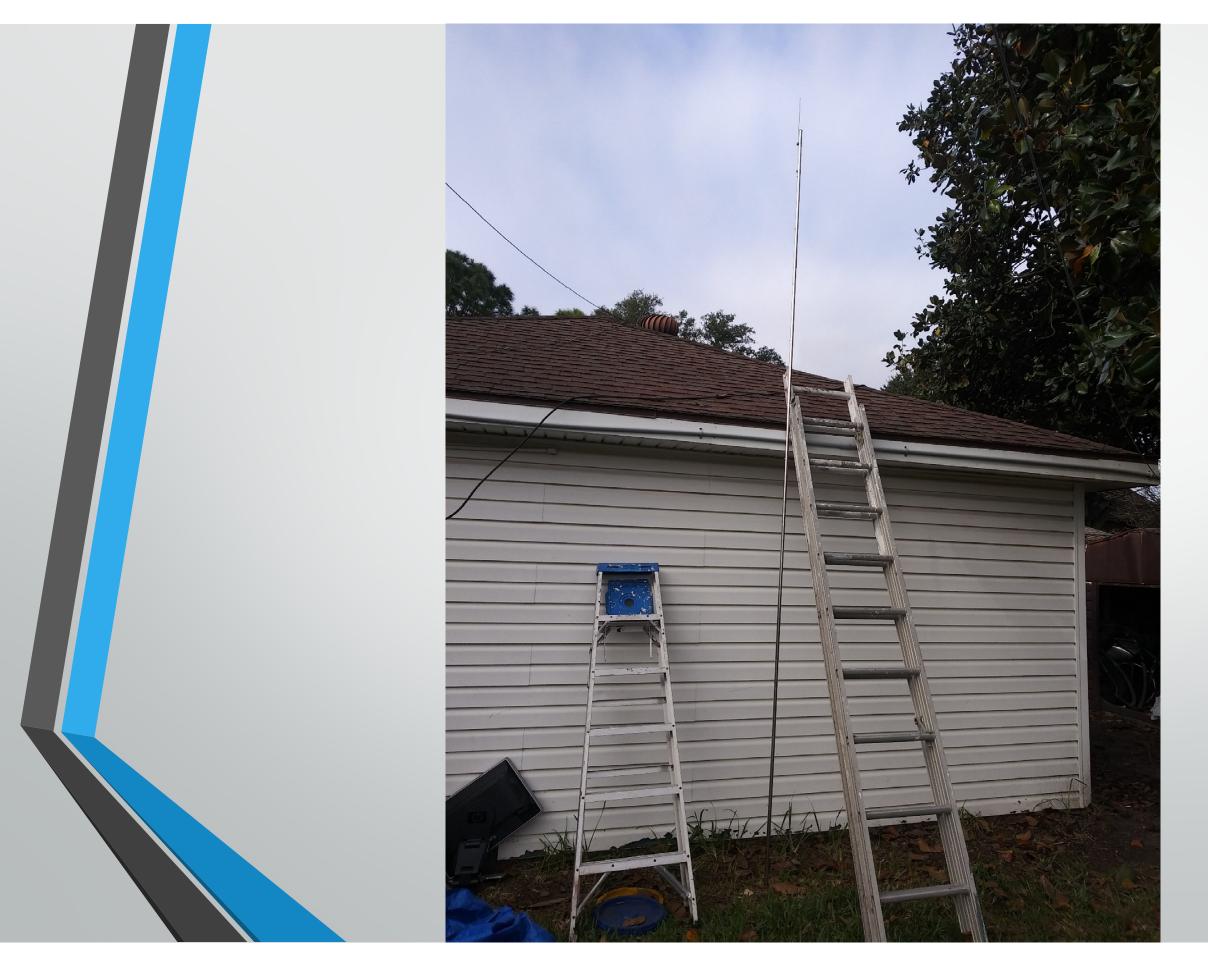












Results so far

- Tuned for 20m ($\frac{1}{4}$ wave)
 - Total length 15ft 8inches (calcs say 16ft 7inches)
 - Diameter 1/2 inch
 - 12 sections of tubing plus 9inch stinger
 - 4 radials at 16ft 7inches
 - SWR 1.2 or less across the band
 - FT8 at 60W hitting Australia and Europe, plus across USA



Next steps

- Add a plastic ring at 10ft for guy lines
- Add radials for 10m to see if it will tune as a $\frac{1}{2}$ wave vertical
- Try 6m radials
- Adjust number of sections as needed to tune 10m and 6m
- Add all my sections to see if I can tune 40m (I may be a few sections) short.)

Questions you may have

What is the measured SWR?

- 14.0 MHz 1.0
- 14.2 1.1
- 14.35 1.15

• How does it work on "harmonic" bands

- 7.2 MHz SWR 5.5
- 28.4 3.0
- 52.0 2.5