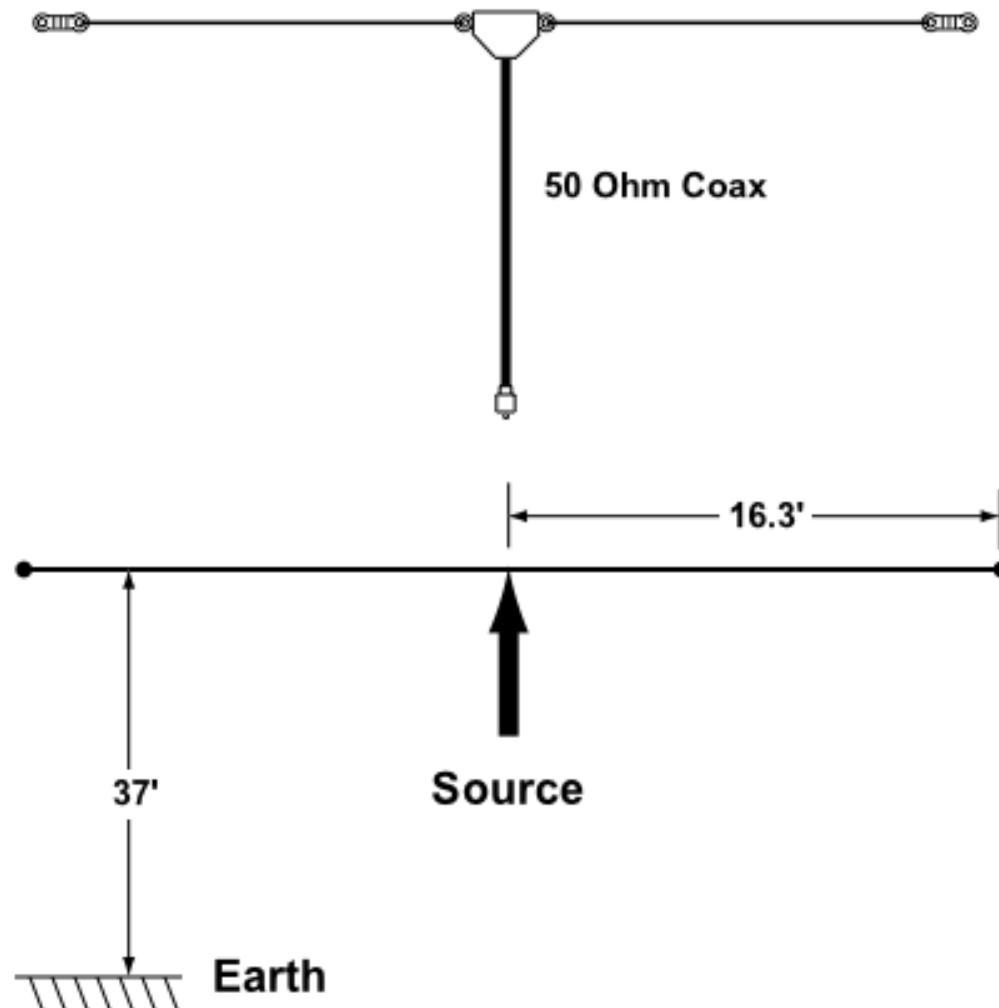


# What is EZNEC?

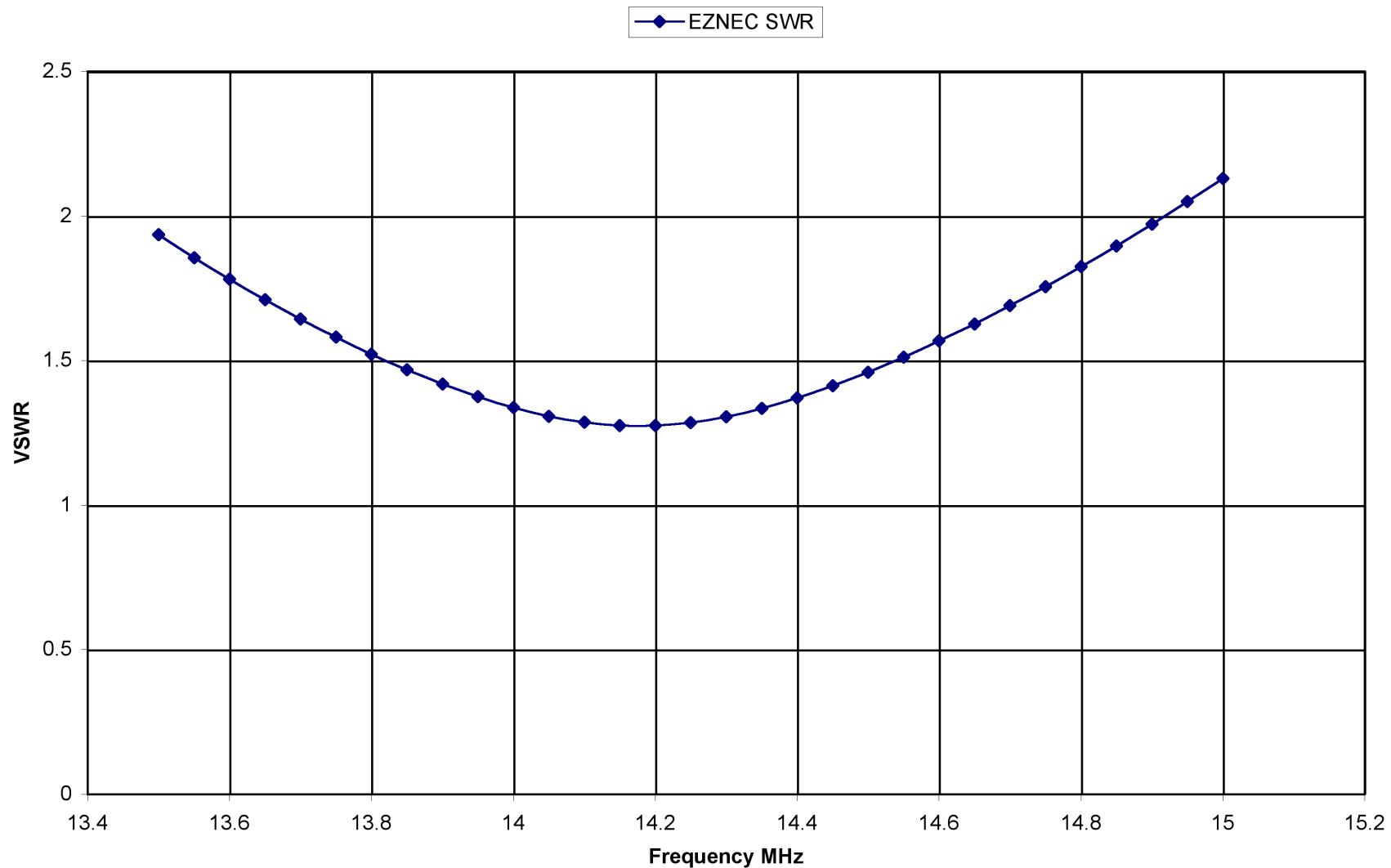
- Family of programs by Roy Lewallen W7EL
- Modelling and analyzing antennas
  - Radiation patterns
  - Feedpoint Z, SWR, and Currents
- Cost
  - EZNEC: \$89
  - EZNEC+: \$139
  - EZNEC Pro/2: \$500
- Operating System
  - Windows 2000, XP, Vista, 7

## 20 Meter Wire Dipole

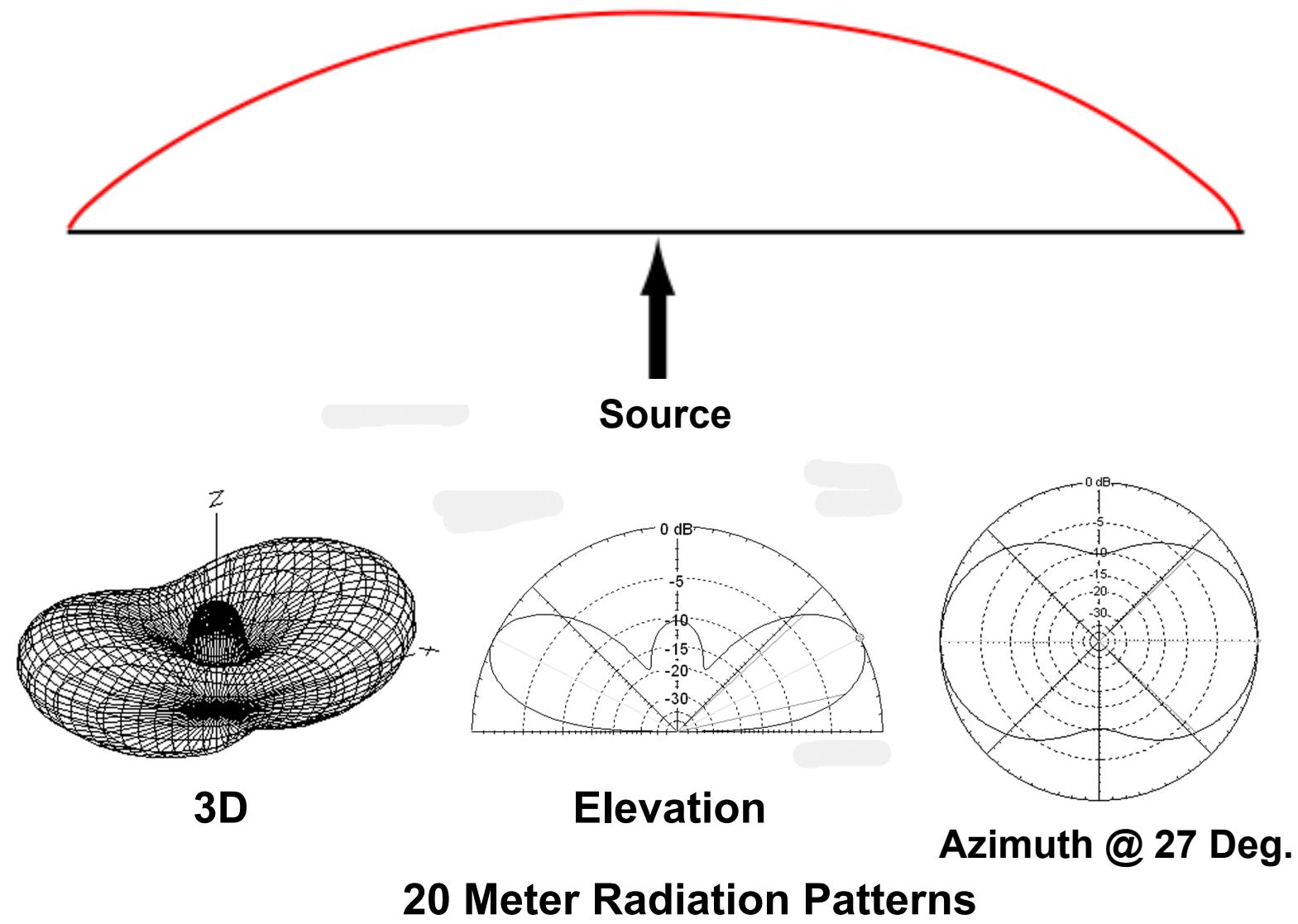


EZNEC Model

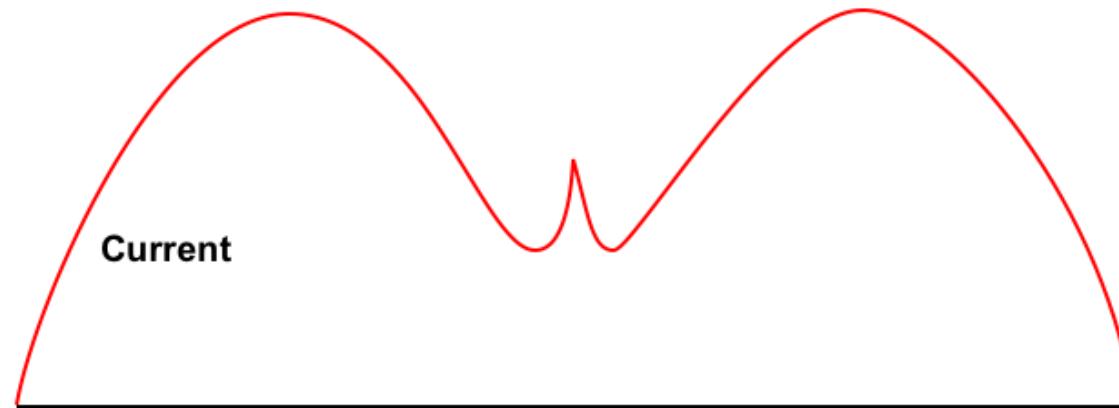
## 20 Meter SWR vs Frequency



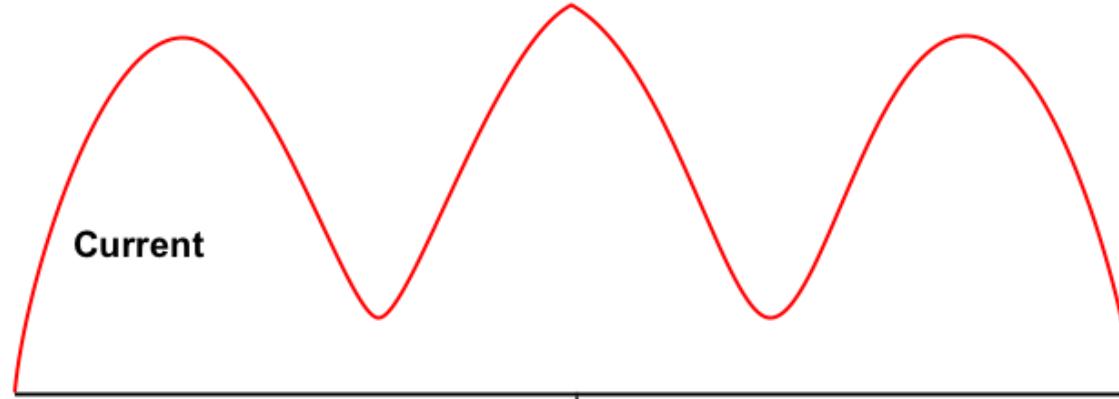
## 20 Meter Current Distribution



## Current Distribution of 20-Meter Harmonics



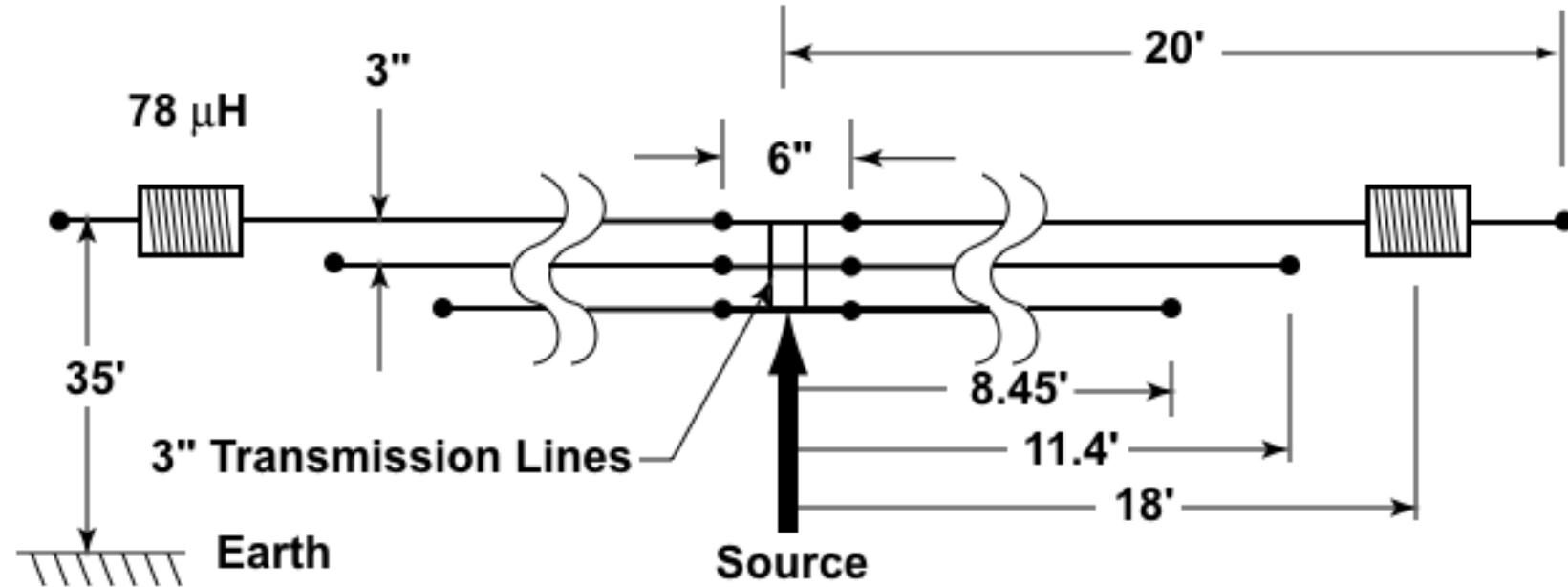
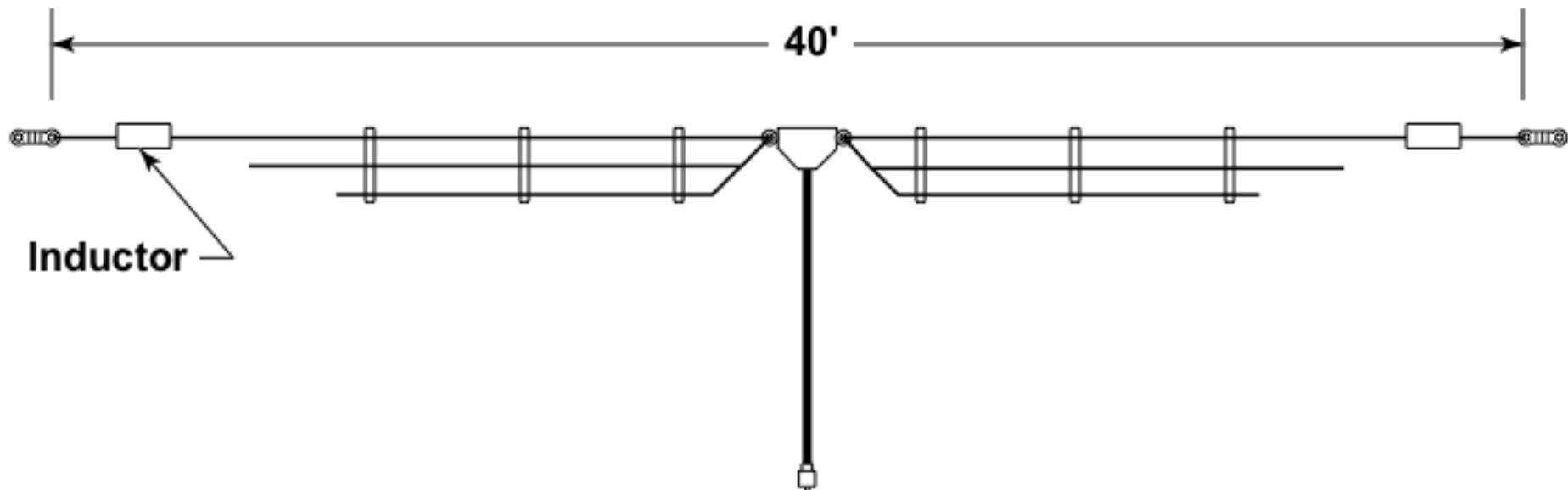
Freq. = 28.4 MHz SWR = 20.3



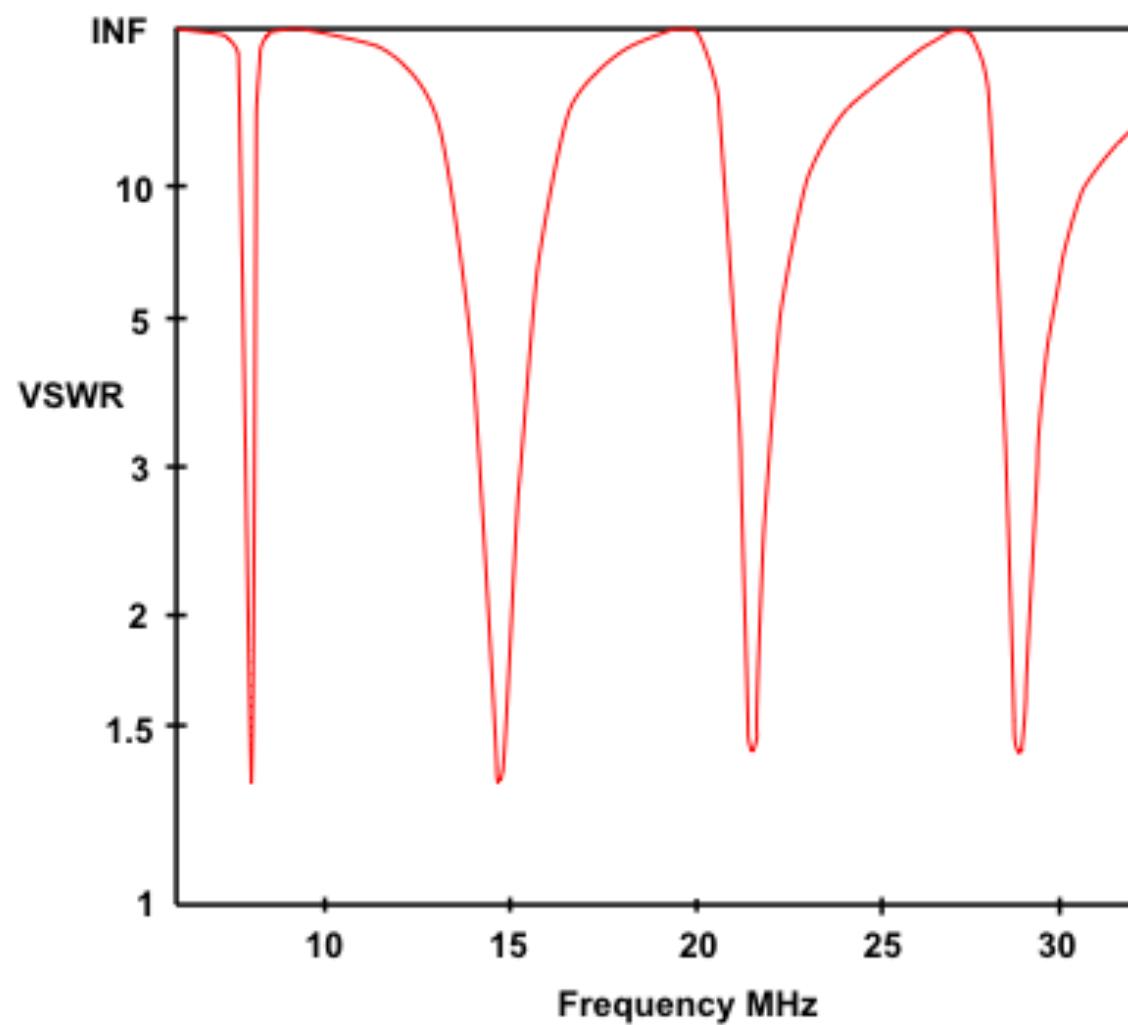
Freq. = 42.6 MHz SWR = 2.1



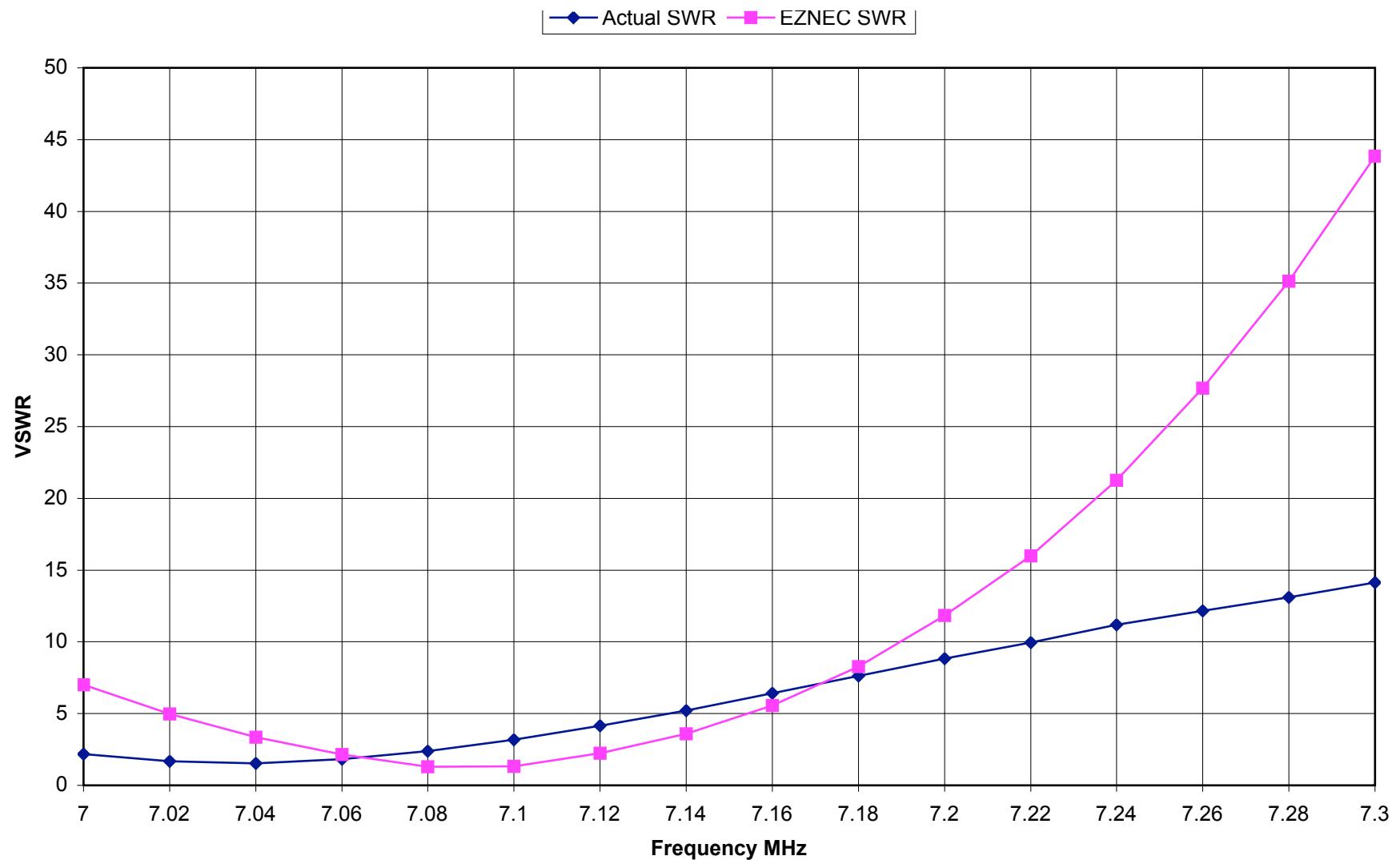
## Alpha Delta DXEE Four-Band Antenna



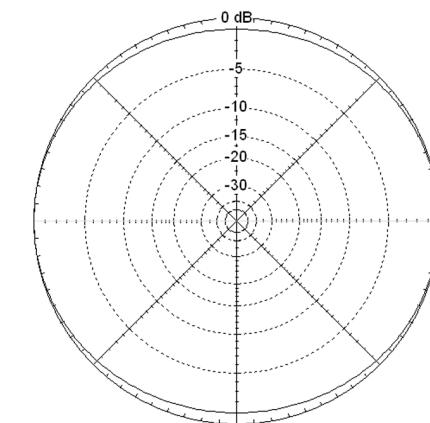
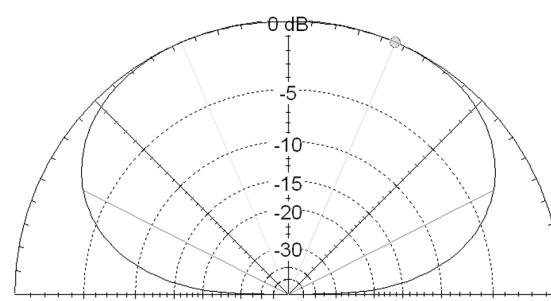
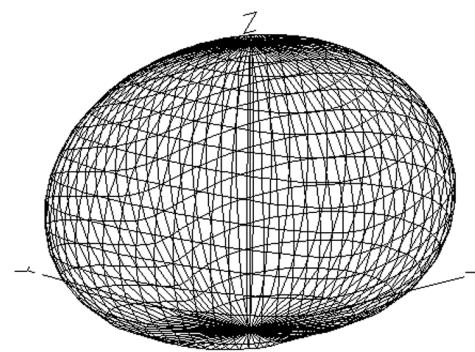
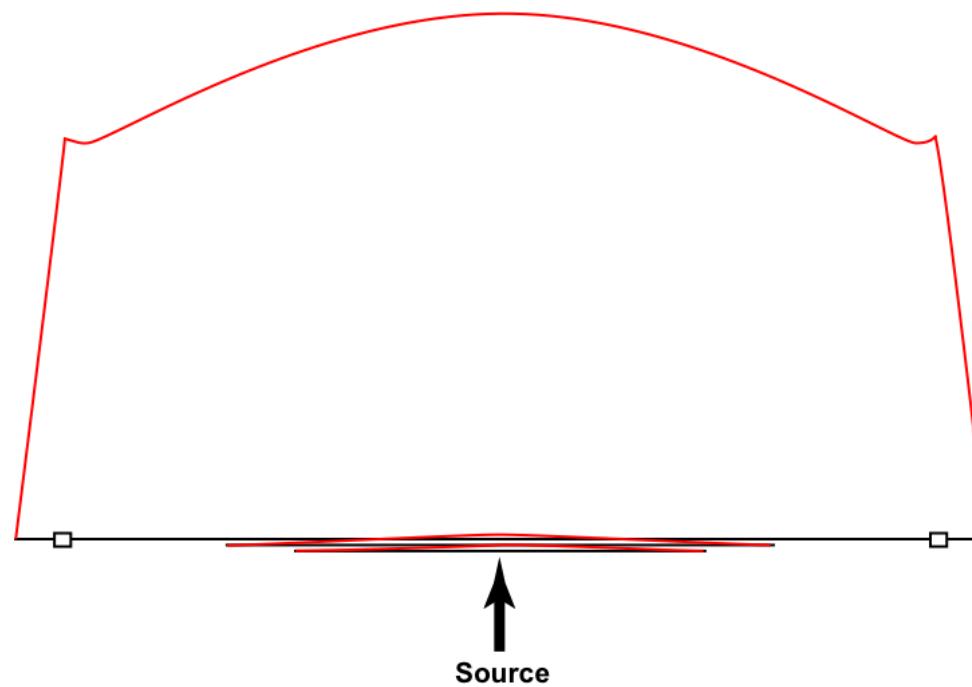
## SWR from 6 MHz to 32 MHz



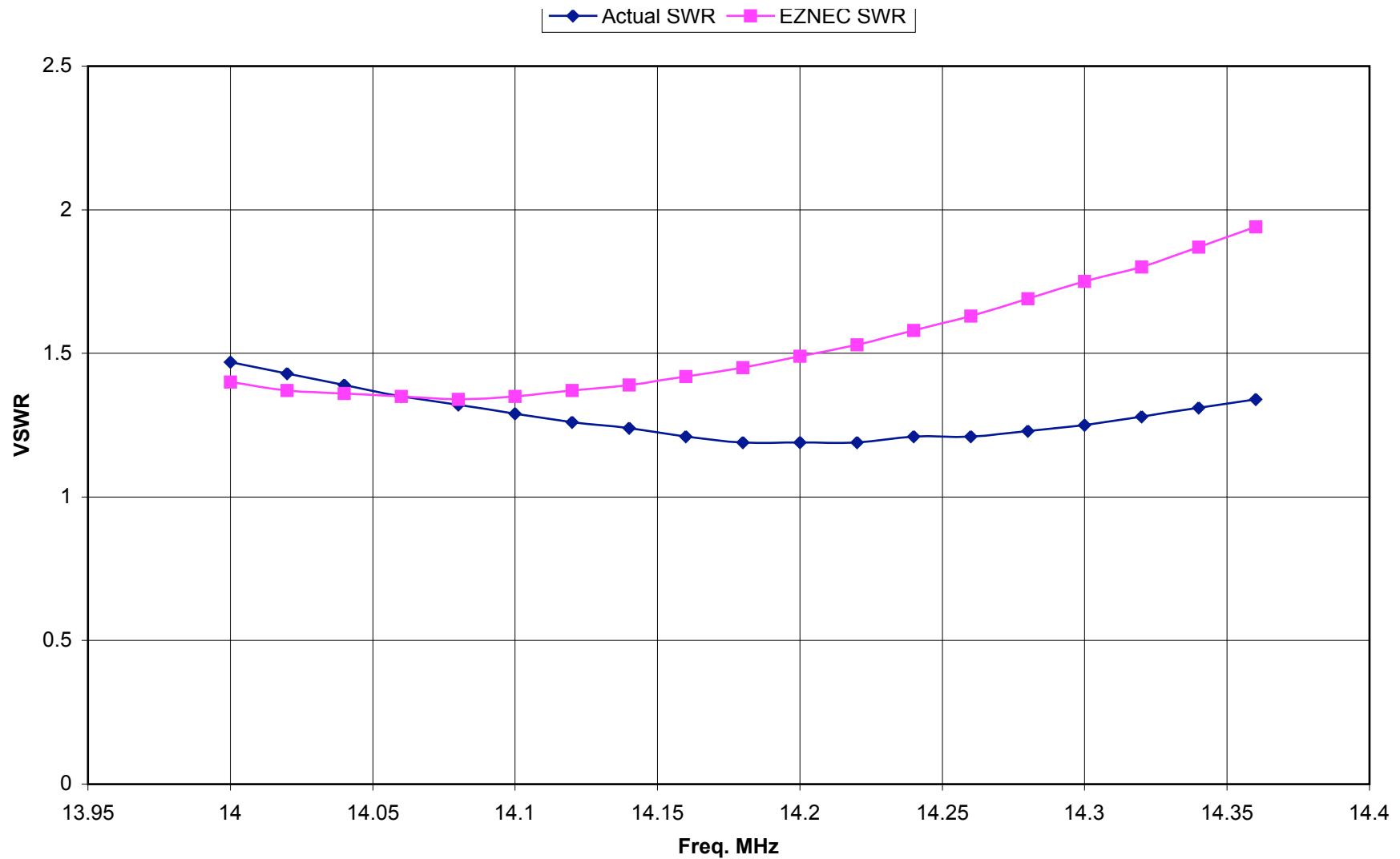
## SWR on 40 Meters



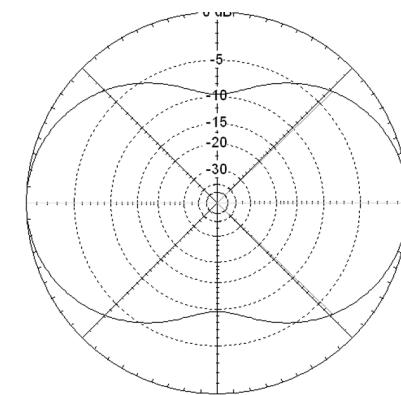
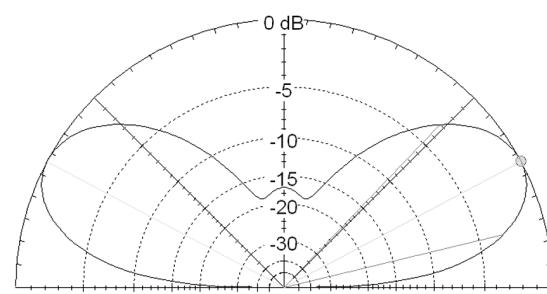
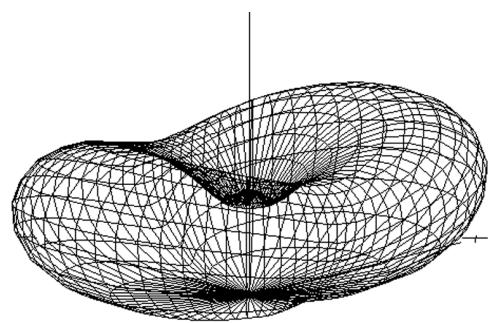
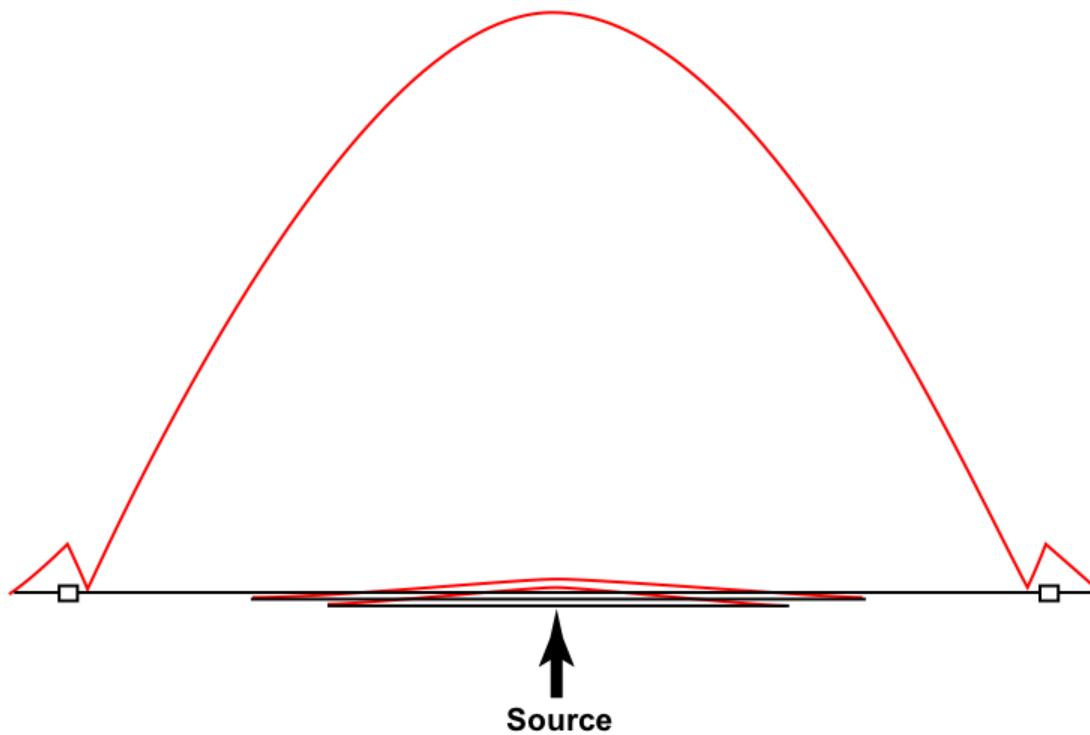
## 40 Meter Currents and Radiation Patterns



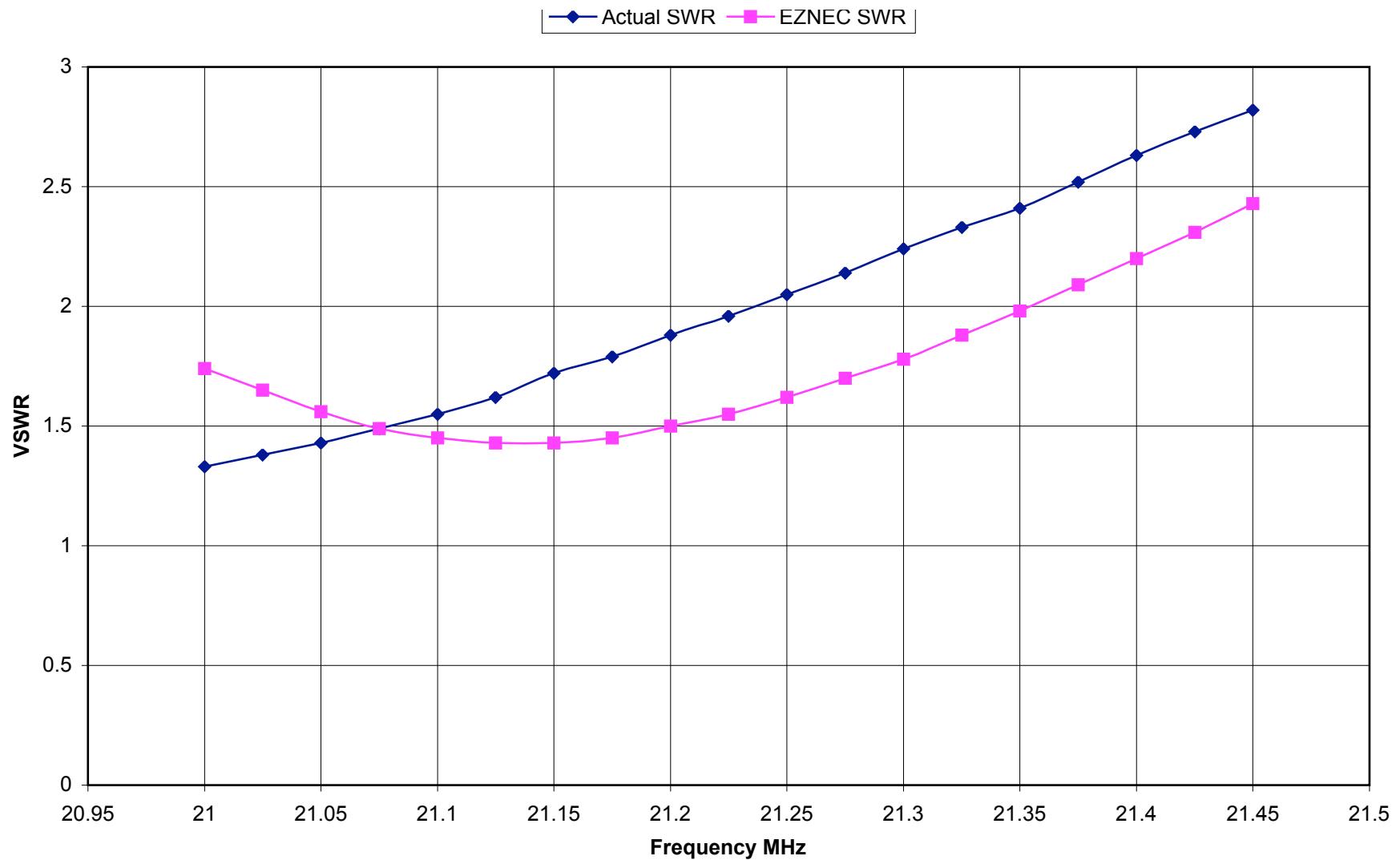
## SWR on 20 Meters



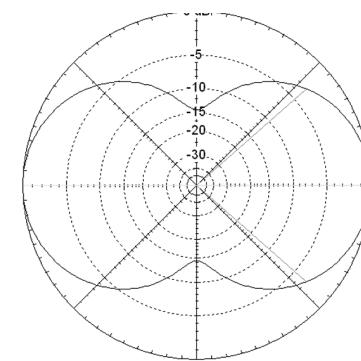
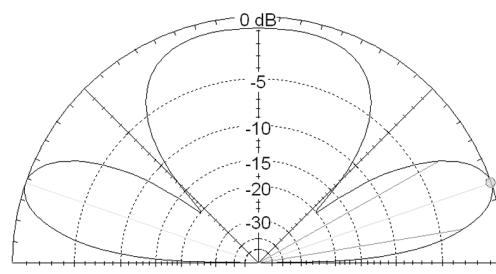
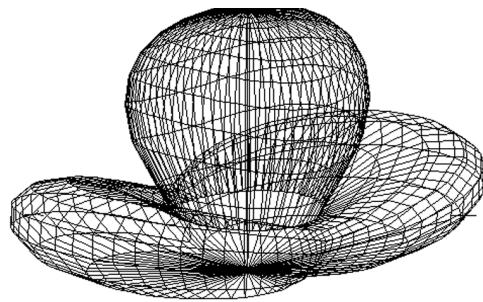
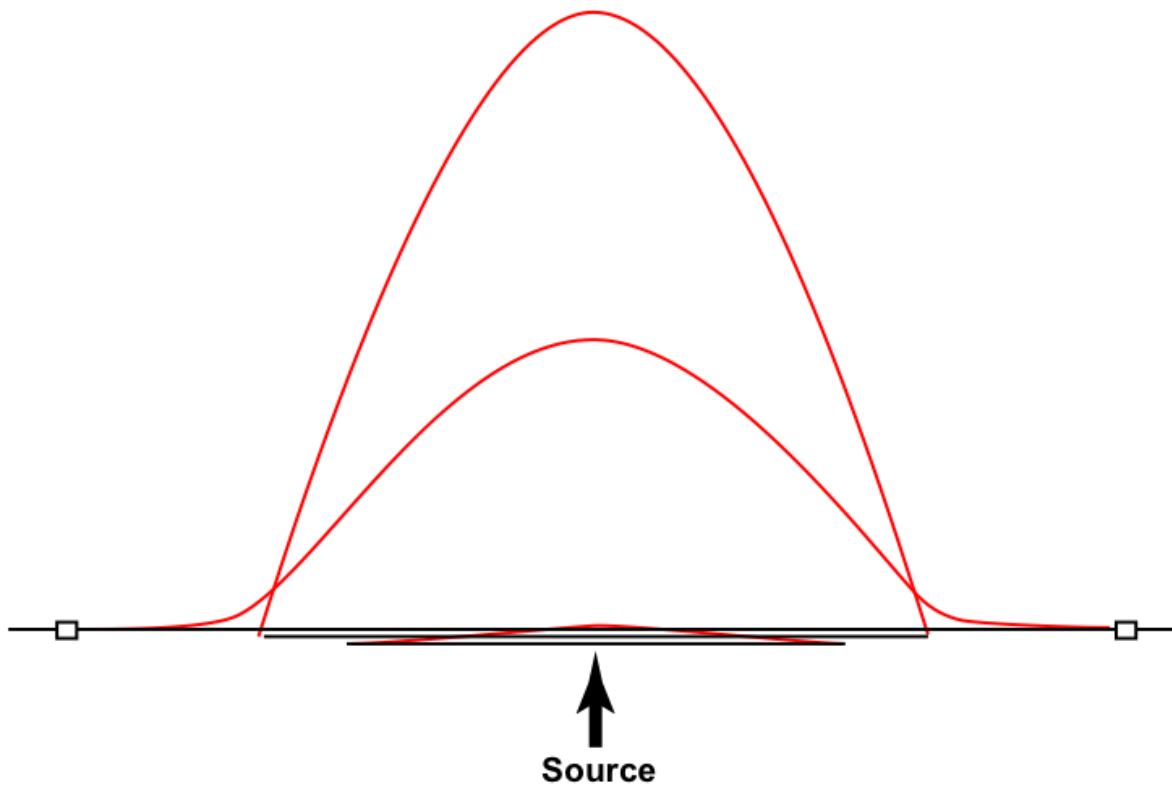
## 20 Meter Currents and Radiation Patterns



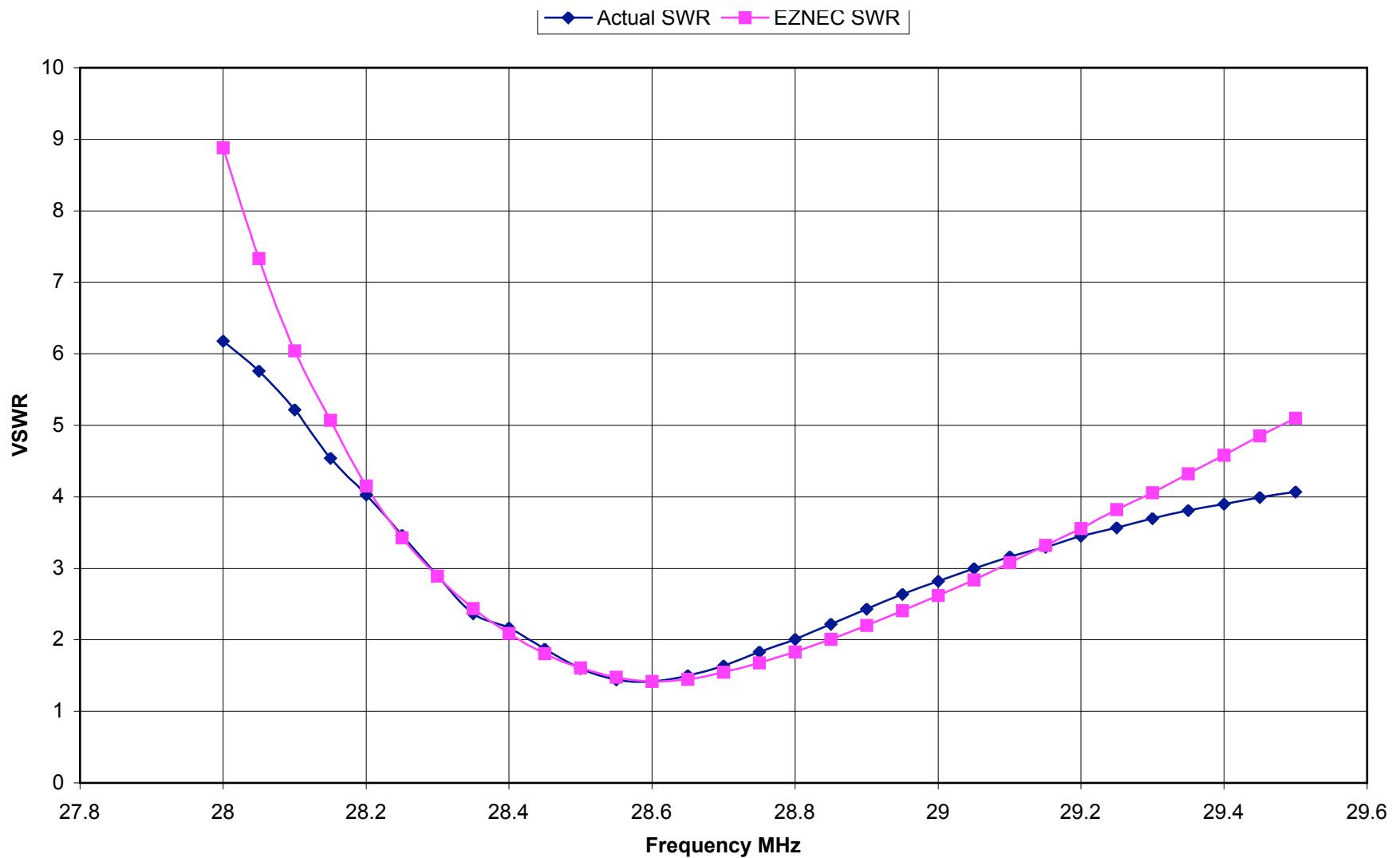
## SWR on 15 Meters



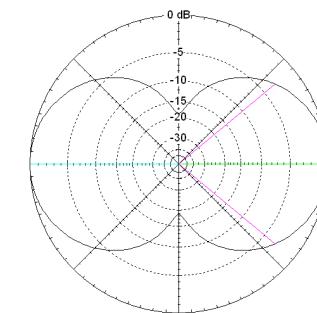
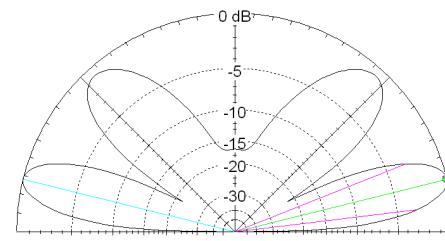
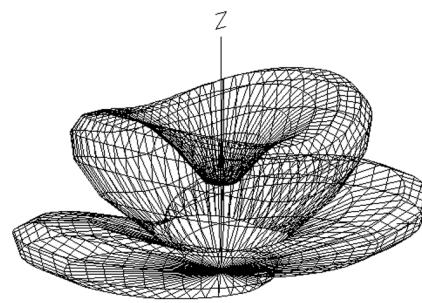
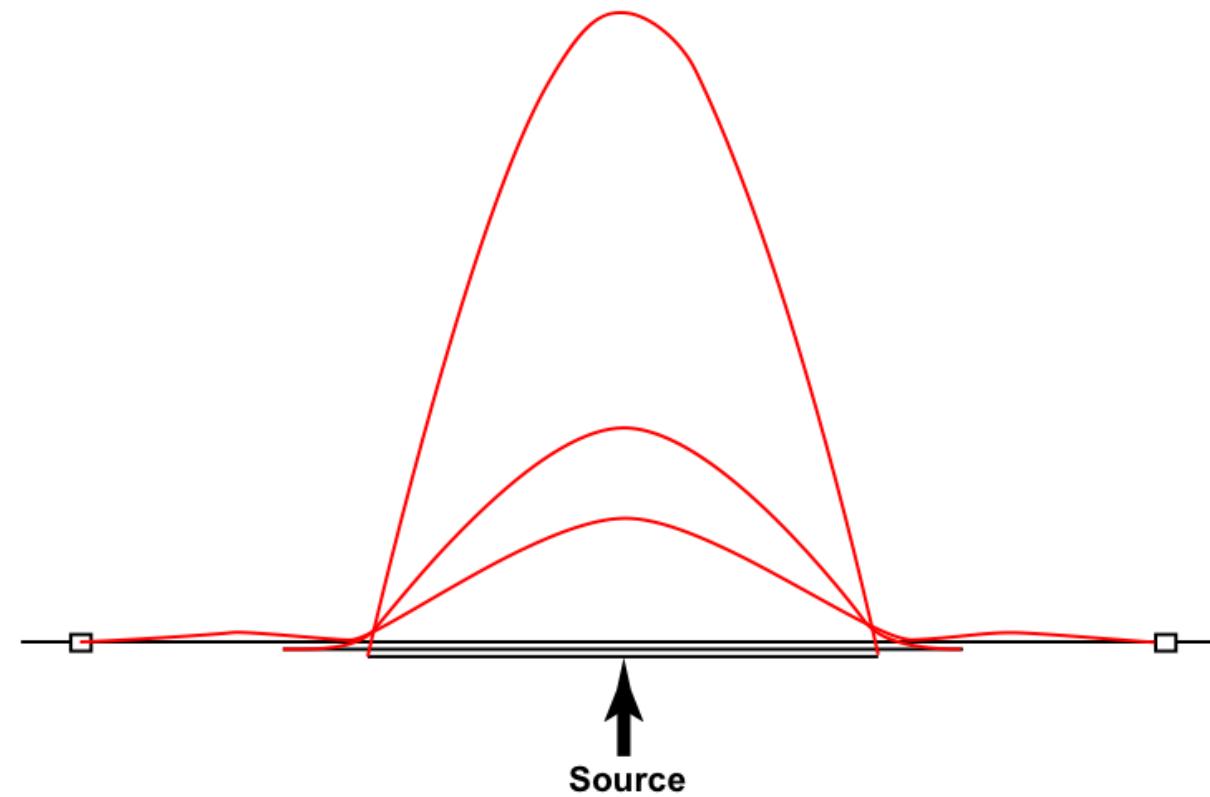
## 15 Meter Currents and Radiation Patterns



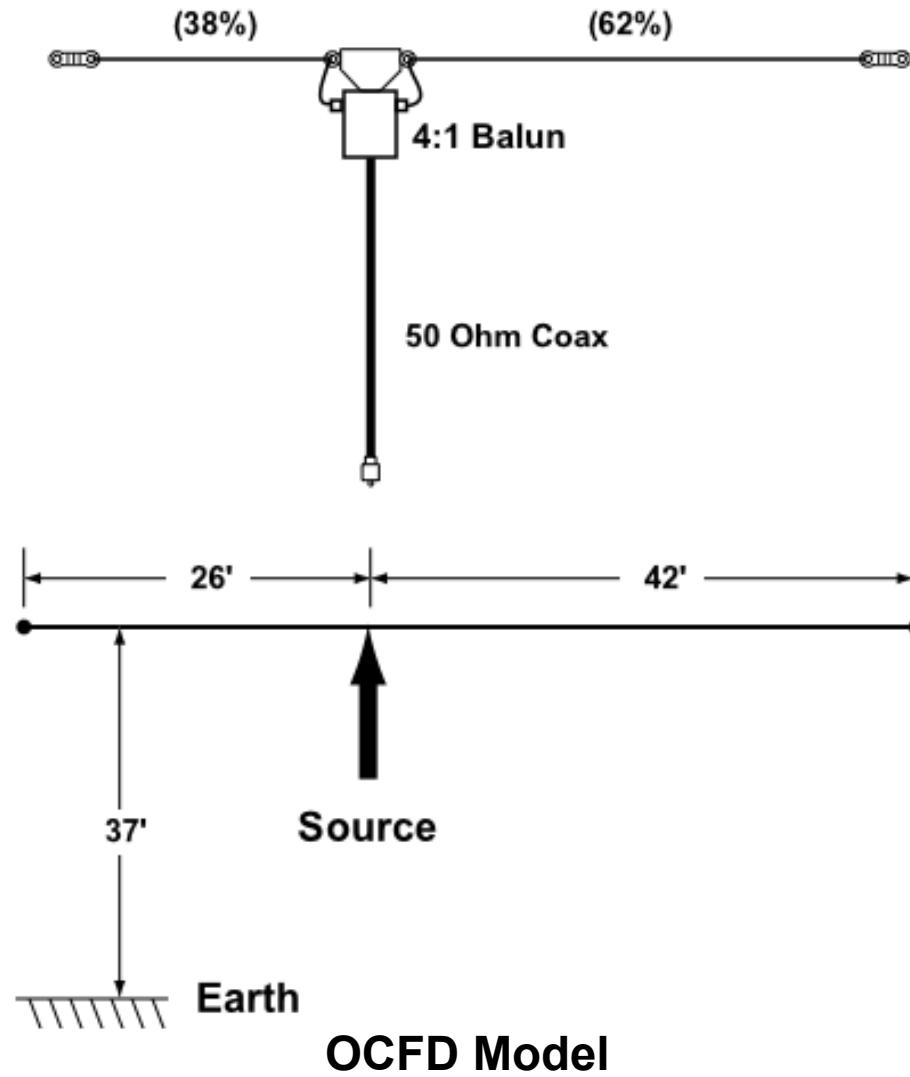
### SWR on 10 Meters



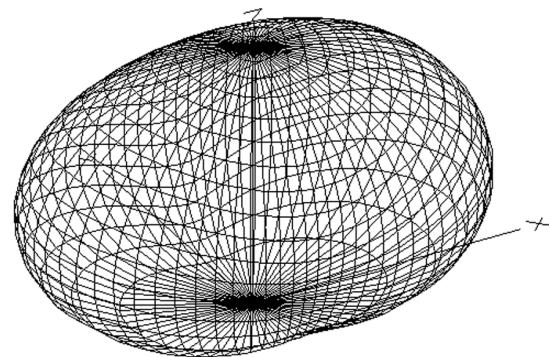
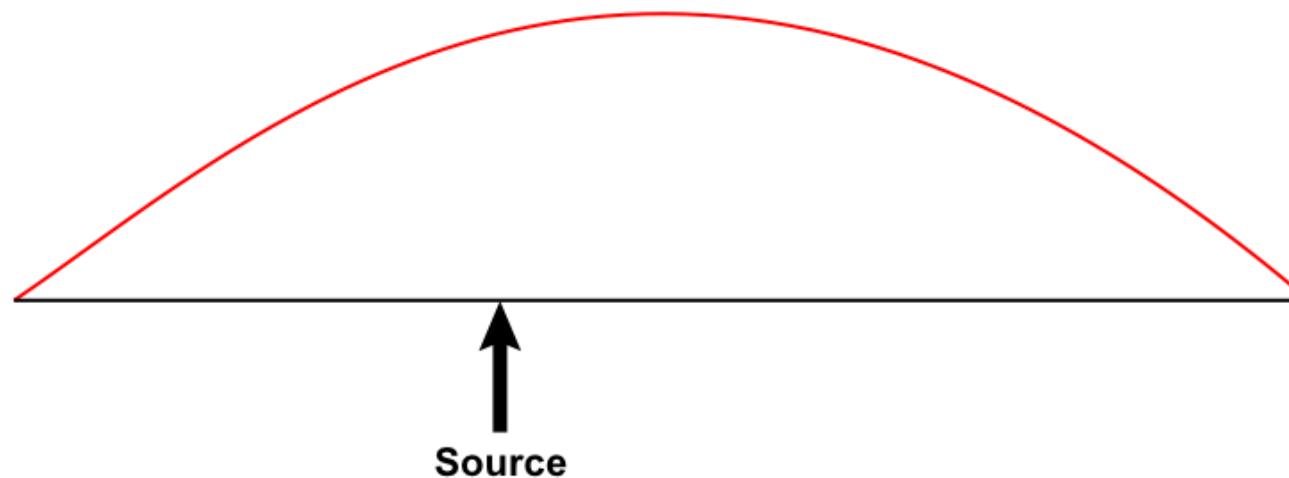
## 10 Meter Currents and Radiation Patterns



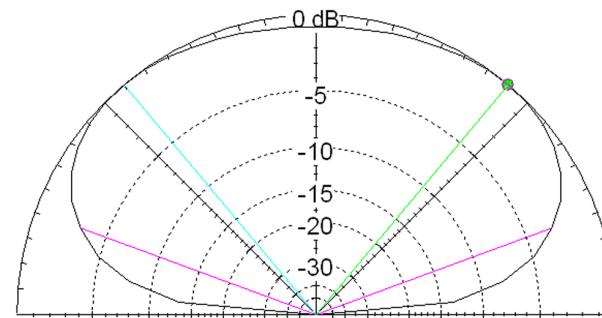
## Off-Center-Fed Dipole



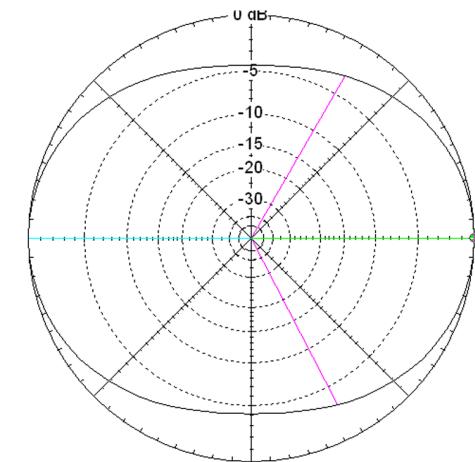
## 40 Meter Currents and Radiation Patterns



3D



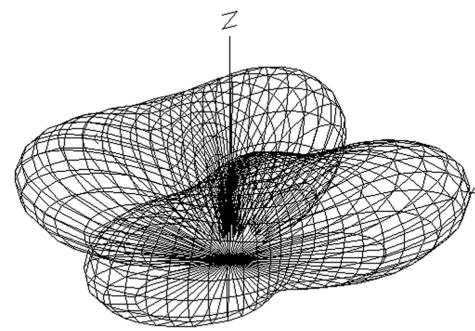
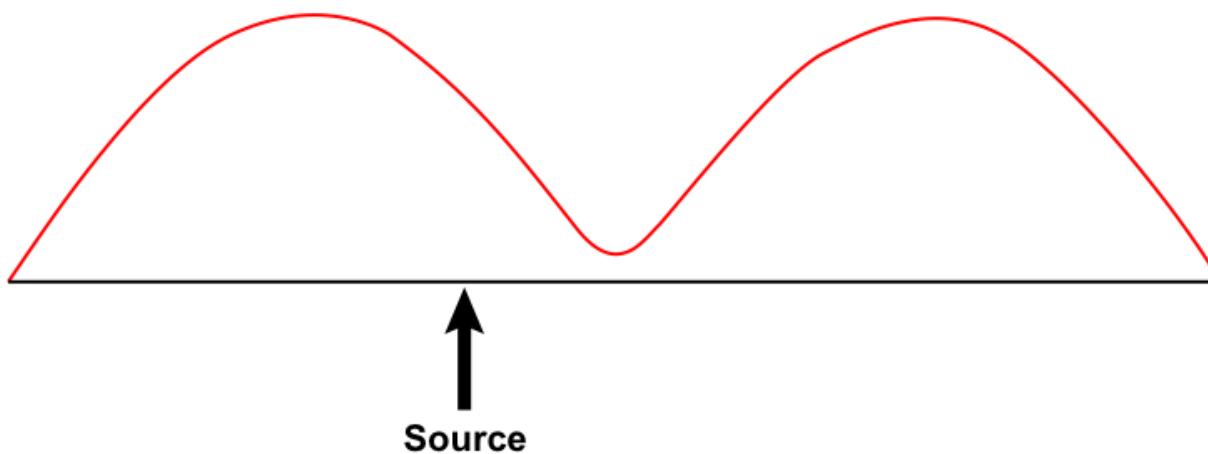
Elevation @ 0 Deg.



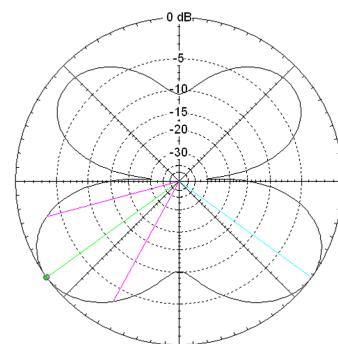
Azimuth @ 50 Deg.

**40-Meter Radiation Patterns**

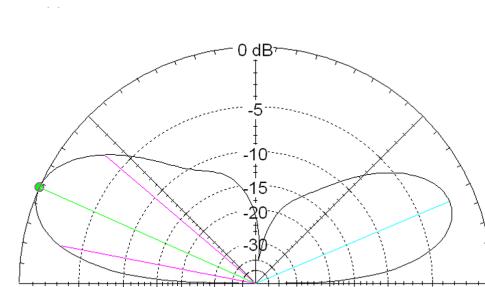
## 20 Meter Currents and Radiation Patterns



3D



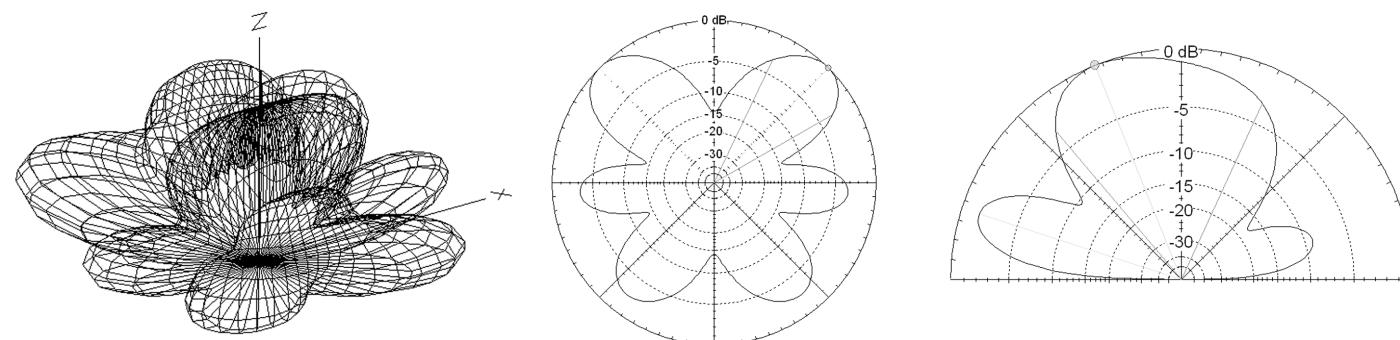
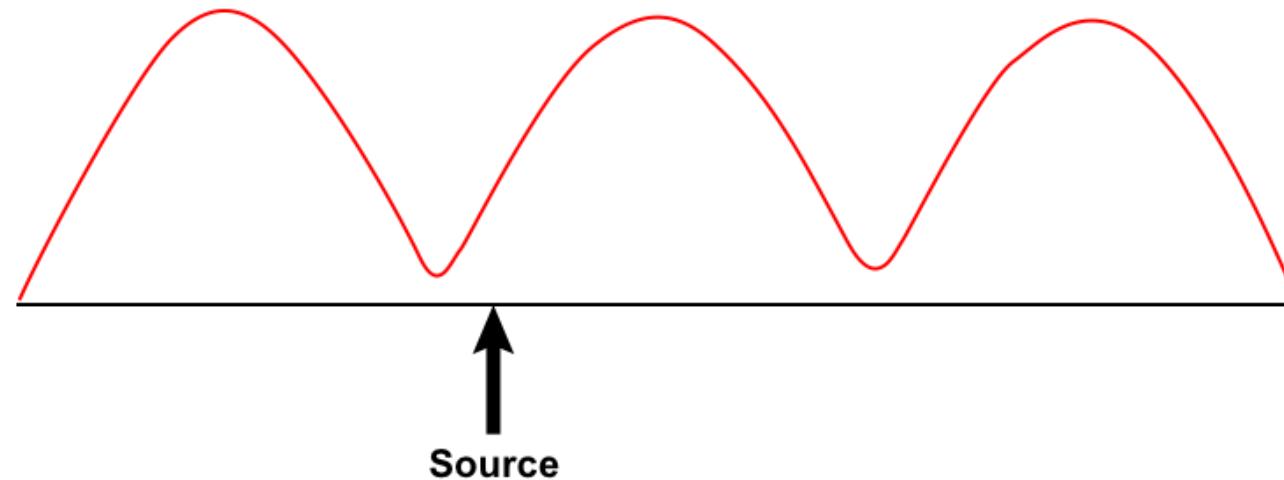
Elevation @ 35 Deg.



Azimuth @ 23 Deg.

20-Meter Radiation Patterns

## 15 Meter Currents and Radiation Patterns



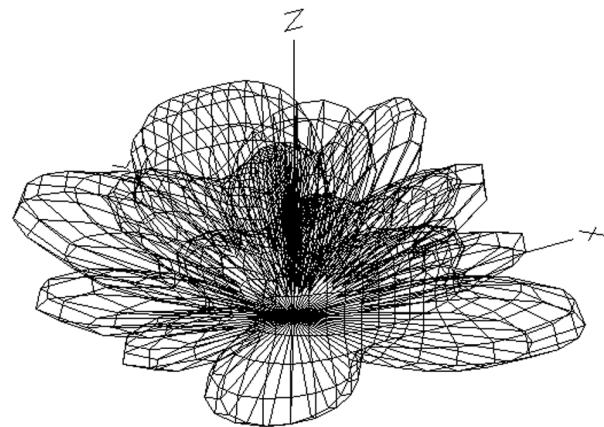
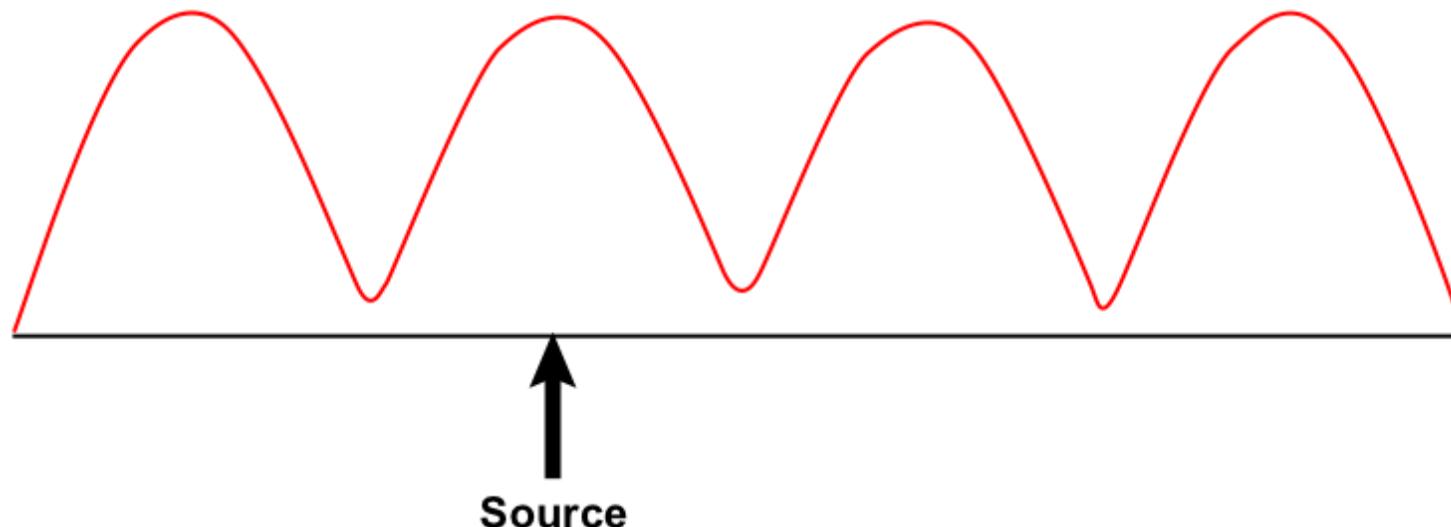
3D

Elevation @ 45 Deg.

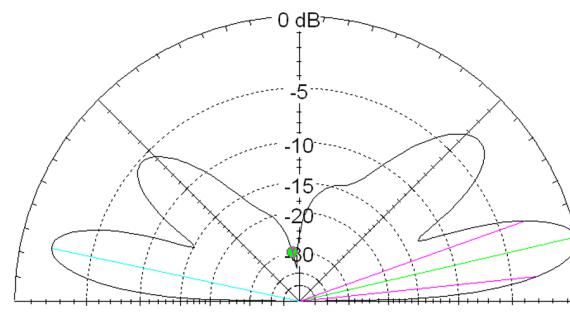
Azimuth @ 16 Deg.

15-Meter Radiation Patterns

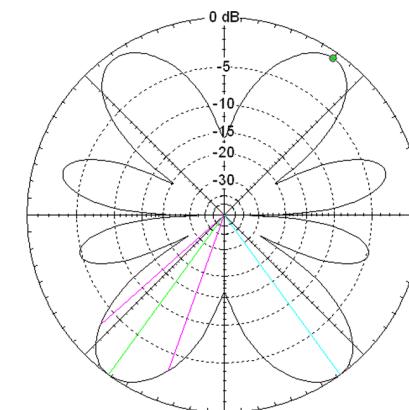
## 10 Meter Currents and Radiation Patterns



3D



Elevation @ 55 Deg.



Azimuth @ 12 Deg.

10-Meter Radiation Patterns