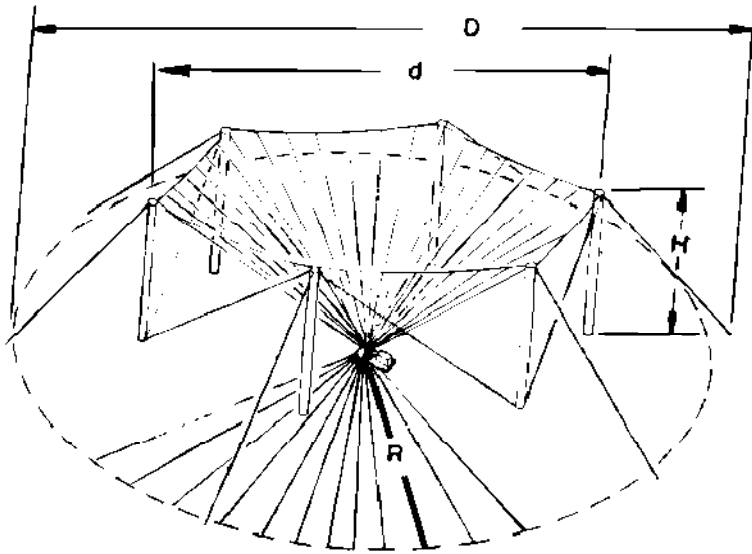


- OMNIDIRECTIONAL
- VERTICAL POLARIZATION
- BROADBAND



Applications

The ICV series antennas are designed for fixed stations and are suitable for skywave propagation for medium to long range circuits. They can also be used for ground-wave circuits up to approximately 100 miles. They are well suited for shore-to-ship communication circuits.

Features

The inverted-cone vertical (ICV) antennas are a series of vertical omnidirectional broadband antennas with similar RF characteristics as the VOBA antennas. ICV curtains in contrast to VOBA's are supported by six wood poles instead of a single vertical tower allowing for more compact installations.

Characteristics

The ICV series are broadband fixed station

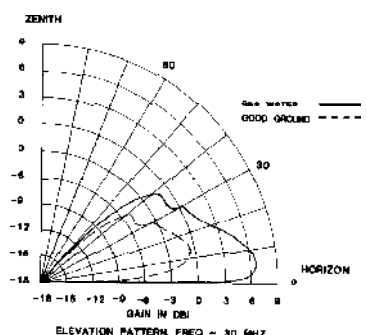
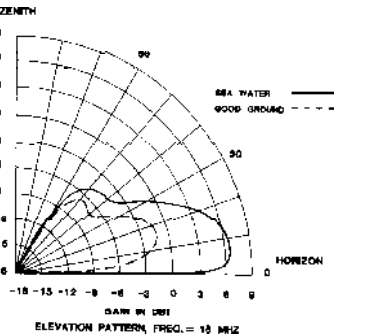
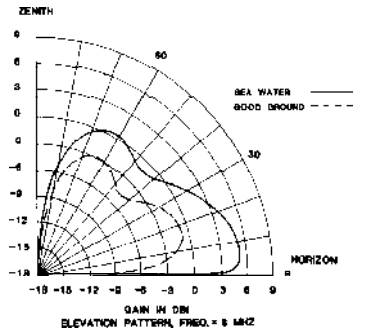
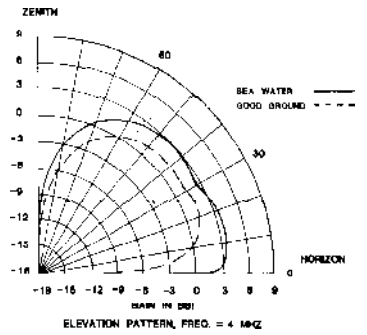
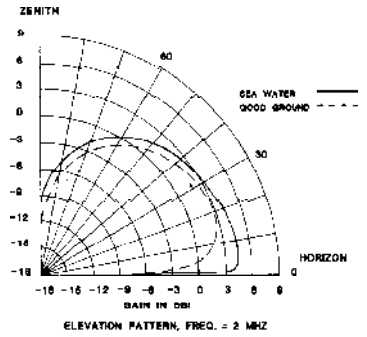
antennas. All materials used in construction have been field proven and subjected to rigorous environmental testing.

Equipment Supplied

Prefabricated alumoweld curtain, guys, base insulator, embedment hardware, ground screen, antenna matching unit, and spare hardware.

Optional Equipment

Repair kit, repair tool kit, wood poles, and spares kit. Coaxial cable, connector adapters and mating adapters.



SPECIFICATIONS

Gain	2 dBi between 0° and 15° above the horizon
Input Impedance	50 Ohms unbalanced
VSWR	2:1 maximum
Polarization	Vertical
Azimuth Pattern	Omnidirectional ±1 dB
Power	25 kW avg/50 kW PEP 100 kW peak instantaneous
Input Connector	3-1/8" EIA flange
Environmental Conditions	125 mph wind, no ice 90 mph wind, 1/2" radial ice

TYPE	I	II	III	IV
Frequency Range	2-30 MHz	2.5-30 MHz	3-30 MHz	4-30 MHz
Height (H)	55 ft	44 ft	37 ft	28 ft
Installed Diameter (D)	295 ft	236 ft	197 ft	148 ft
Cone Diameter (d)	187 ft	150 ft	25 ft	94 ft
Ground Screen Radius (R)	123 ft	99 ft	82 ft	62 ft
Wood Pole Weight (approx) (normally drop shipped)	17,000	12,000	10,000	7,000
Shipping Weight (lbs)	3,407	2,946	2,630	2,418
Shipping Volume (cu ft)	199	175	157	134