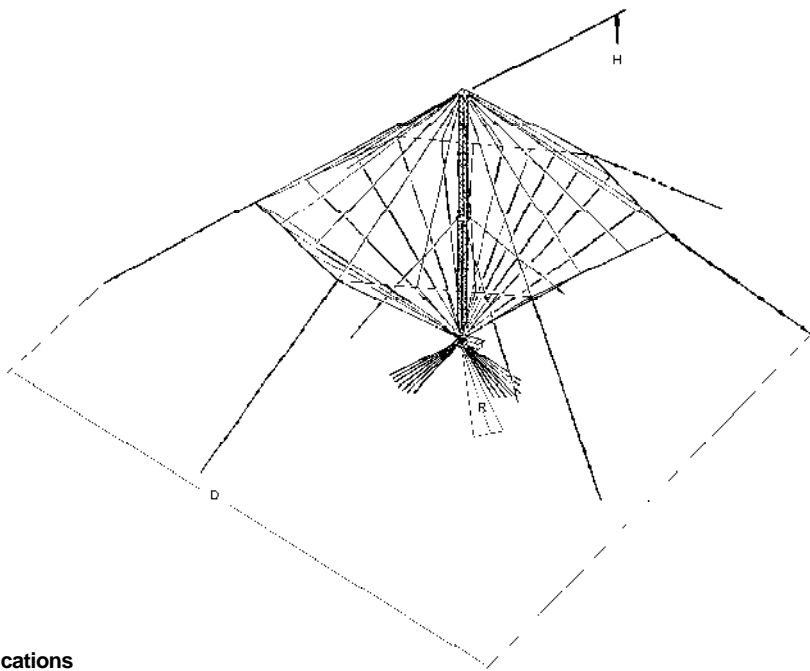
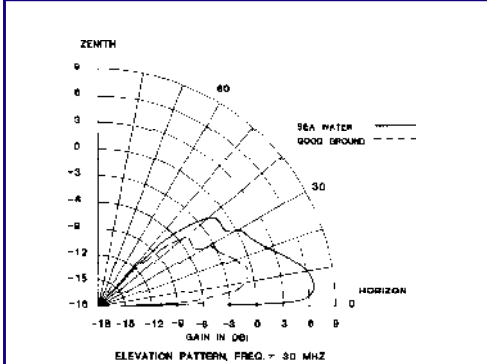
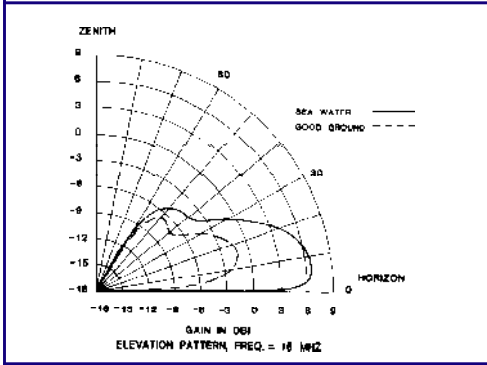
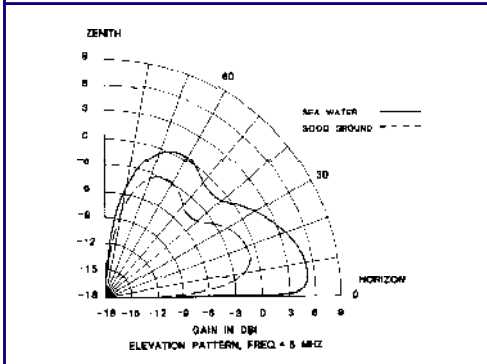
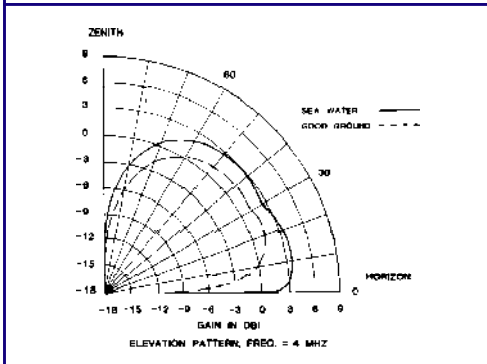
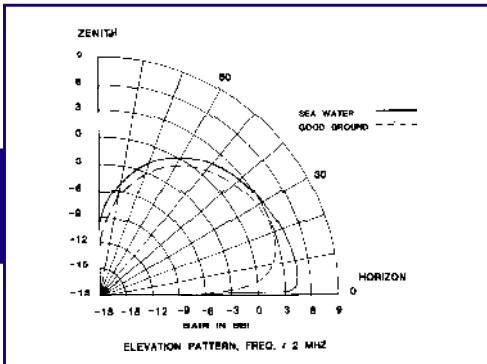


# VOBA-I/II/III/IV

- OMNIDIRECTIONAL
- VERTICAL POLARIZATION
- BROADBAND



## Applications

The VOBA style antenna is suitable for skywave propagation from medium to long range circuits. This antenna design can be used for short range groundwave circuits up to approximately 300 nautical miles, and is well suited for naval shore-to-ship communications.

## Features

The VOBA antenna is ruggedly designed and will withstand harsh environments such as high wind, ice, and snow. The broadband frequency capability does not require tuning.

## Characteristics

The vertically polarized omnidirectional broadband antenna (VOBA) is designed in accordance with the U.S. Navy specifications

MIL-A-28768B (EC) and MIL-A-28768/1B (EC). The VOBA series of antennas are fixed station antennas which cover various frequency bands without requiring any frequency tuning or frequency adjustments.

## Equipment Supplied

Prefabricated alumoweld curtain, galvanized steel tower with built-in ladder, safety climbing equipment, guys, base insulator, embedment hardware, ground screen, antenna matching unit, and spare hardware.

## Optional Equipment

Repair kit, repair tool kit, and erection 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
Environment Conditions	125 mph wind, no ice 90 mph wind, 1/2" radial ice

TYPE	I	II	IIA	III	IV
Frequency Range	2-30 MHz	2.5-30 MHz	2.7-30 MHz	3-30 MHz	3.9-30 MHz
Height (H)	88 ft	71.5 ft	66.5 ft	61.5 ft	45.5 ft
Diameter (D)	450 ft	366 ft	340 ft	315 ft	233 ft
Ground Screen Radius	123 ft	99 ft	90 ft	82 ft	62 ft
Shipping Weight (lbs)	6,847	5,823	5,468	5,287	3,999
Shipping Volume (cu ft)	570	475	438	418	324
Military Nomenclature	AS-3797/GRC	—	—	—	—