

# Transmit & Receive With a Single-Mast Antenna System

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For over a decade SeaSondes operating between 24-50 MHz frequency band have an antenna system that co-locates both transmit and receive antenna elements atop a single mast. Recently this capability to operate with a single-mast antenna system has been expanded to include lower frequency bands down to 12 MHz.

Though a traditional two-mast antenna system – one for transmit antenna and one for the receive antenna – is already extremely compact by conventional HF radar standards, a single mast antenna system represents a critical practical convenience when installing in congested urban areas, on oil platforms or atop other manmade structures.

The first 12 MHz combined antenna systems were purchased by Scripps Institution of Oceanography (SIO) for use on oil platforms in the Gulf of Mexico. Shown in photo are CODAR company President Don Barrick and Tom Cook of SIO with the first 12 MHz combined antenna. This unit was delivered to SIO in 2008.



SIO's Tom Cook (left) with CODAR company President Don Barrick and the first 12 MHz combined antenna.