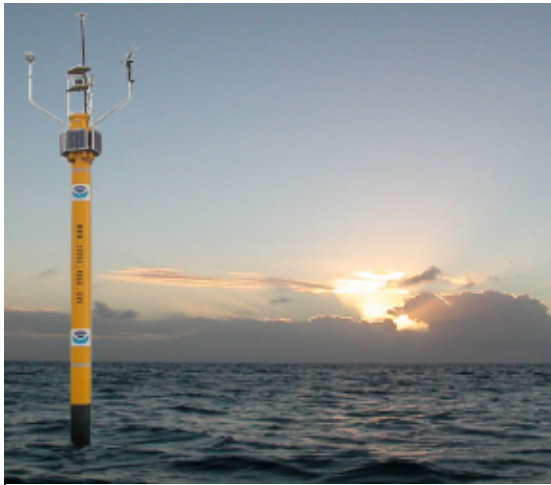
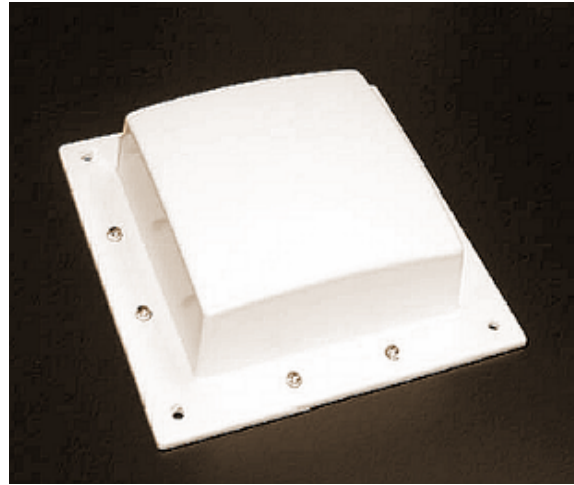


Model MCR03-04-N Reduced Sized GOES Patch Antenna

Below are two photos along with specifications on mWAVE Industries, LLC model MCR03-04-N reduced sized patch antenna for use with GOES satellites. The MCR03-04-N antenna is mounted on the top of a fully operational platform in the left photo. This antenna is used for transmitting data being collected by other instruments on platforms that are recording barometer data, air & sea temperature, wind speed & gusts and wind direction along with other information related to oceanographic measurements. The gathered data is then transmitted to a GOES satellite and sent back to earth. There are hundreds of weather platforms/stations in and around the US that send data that is used for weather tracking/predicting, scientific studies and educational studies just to name a few applications. This antenna was designed for use in high wind and rough sea environments. Standard patch antennas operating in this frequency band are generally somewhere around 18-20" across by 6-7" in height. mWAVE's MCR03-04-N model is only 9" across by 2.75" in height. The radome was manufactured utilizing a UV stabilized heavy wall plastic that can be thermoformed to help keep manufacturing and tooling cost down. There are four clearance holes for 5/16" hardware located near the 4 outside corners of the antenna for mounting. This rugged, reduced sized, easily mounted antenna also makes a good candidate for a quick deployable/portable/replacement antenna when a critical similar antenna site goes down.



Model MCR03-04-N deployed on platform



Model MCR03-04-N reduced sized patch

Specification Table

Frequency (MHz)	Gain (dBic)	Axial Ratio (dB)	HPBW (deg.)	F/B (dB)	Return Loss (dB)	Input
402	4.0	≤ 3.0	112	>9	>14.0	Type N Female

Contact mWAVE Industries, LLC for your antenna development needs.