

EXHIBIT #1 for STA Application

submitted by ARTEMIS, INC. File # 0386-EX-ST-2013

DIRECTIONAL ANTENNA INFORMATION

A single, patch-array antenna is to be mounted on the aircraft for use with the synthetic aperture radar system in the NASA MIZOPEX experiment. The details of the antenna are listed here.

Antenna Properties

The relevant properties of the X-Band SlimSAR antenna are listed below.

SlimSAR Antenna Parameters

Physical Size: 10x1.5x3.5"

3-dB Beamwidth: 9°x41°

Peak Gain: 19.1 dBi

Antenna Mounting

The SlimSAR antenna is mounted on an aircraft in such a way that a line extending from the antenna boresight forms an angle of nominally 45° with a line that is normal to the ground.

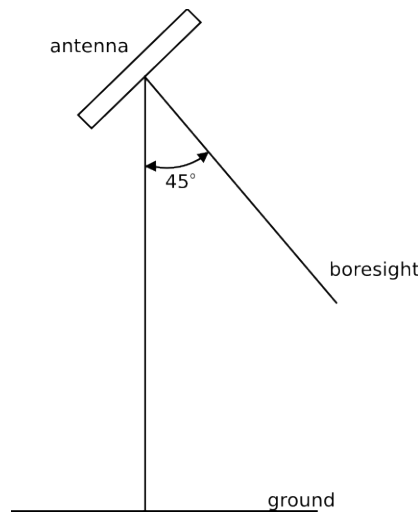


Illustration 1: Angle of antenna boresight relative to ground normal.