

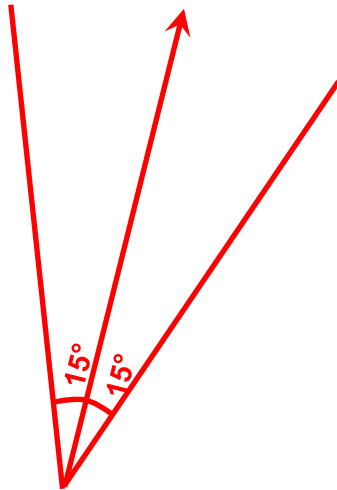
# Antenna Orientation Exhibit

## STA File Number 0948-EX-ST-2013

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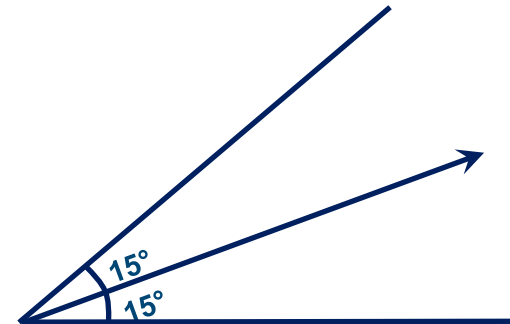
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# Antenna and Orientation



## Azimuth Pointing

- Will be determined by actual flight locations
- Nominally  $10^\circ$  True, *but will vary*
  - Fixed pointing during any given collection



## Elevation Pointing

$15^\circ$  above horizontal for all collections

## Antenna Characteristics

Standard Gain Horn

American Technical Materials model 90-441-6

- Azimuth beamwidth  $29^\circ$
- Elevation beamwidth  $29^\circ$

The antenna is directional, but since azimuth pointing for the experiment is dependent upon actual flight locations, we are requesting the ability to radiate along any azimuth

- If there are constraints to avoid, we can work that into the test plan