



Commercial Ground Station Options

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Nanosatellite Ground Station Workshop
San Luis Obispo, California
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150-ft Dish



150-ft Dish

- Located above Stanford University:
 - Latitude: 37.4085° N
 - Longitude: 122.1796° W
 - Altitude: 156 meters
- Owned by NRL, operated by SRI
- Az/EI Mount:
 - Elevation: 3 to 87°
 - Azimuth: two turns
- Pointing Resolution:
 - 0.01° at 0.004°/s
 - 0.1° at 1°/sec
- Max Rates:
 - 1°/s azimuth
 - 1°/s elevation

Typical Gain, Efficiency and Bandwidth			
150 MHz	35 dB	55%	3.0°
400 MHz	43 dB	55%	1.0°
1420 MHz	52 dB	35%	0.25°

60-ft Dish



60-ft Dish

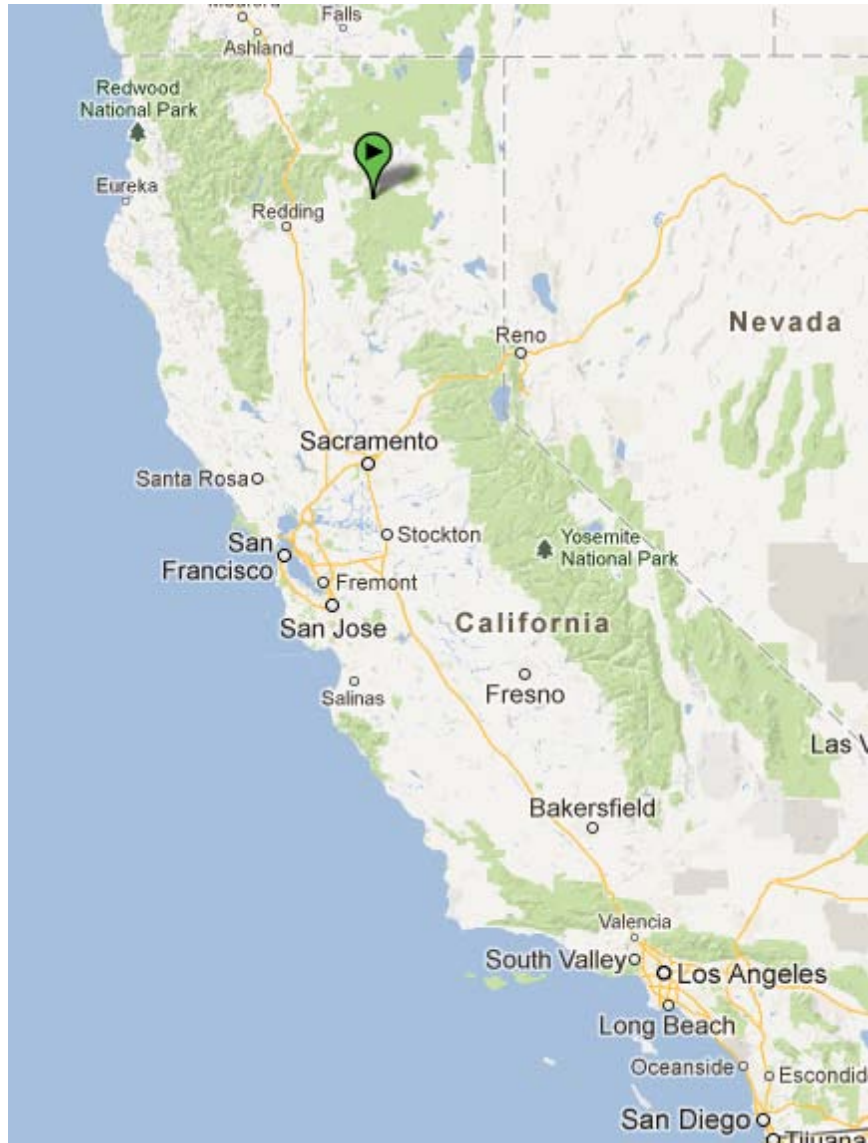
- Located above Stanford University:
 - Latitude: 37.4030° N
 - Longitude: 122.1742° W
 - Altitude: 156 meters
 - 2,400 feet south of the 150-ft
- Owned by SRI
- Az/El Mount:
 - Elevation: 3 to 87°
 - Azimuth: -90° to +450°
- Pointing Resolution:
 - 0.02° at 0.01°/s
- Max Rates:
 - 4°/s azimuth
 - 2°/s elevation

Typical Gain and Bandwidth		
430 MHz	35 dB	3°
915 MHz	42 dB	1.2°
1400 MHz	44 dB	0.9°
2400 MHz	46 dB	0.8°

Allen Telescope Array



Allen Telescope Array



Allen Telescope Array

- Hat Creek Radio Observatory:
 - East of Redding, CA
 - Latitude: 40.817° N
 - Longitude: 121.470° W
 - Altitude: 1008 meters
- Managed by SRI
- Az/El Mount:
 - Elevation: 17 to 87°
 - Azimuth: 360°
- Max Rates:
 - 2°/s azimuth
 - 2°/s elevation
- 42 individually-steerable dishes
 - 6.1-meter diameter
 - Cryogenic feeds
 - 0.5 to 11.2 GHz
- Primary Modes:
 - Correlator (intensity images)
 - Beamformer (single waveform)
 - Direct to disk (recording)
- Downlink only!

Typical Gain, Field of View and Resolution			
1.5 GHz	53 dB	2.3°	170"
3 GHz	59 dB	1.2°	83"
6 GHz	65 dB	0.58°	42"

Thank You



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international locations*

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