The Very Long Baseline Array

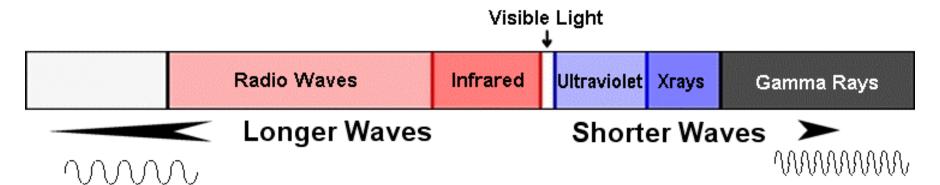
Brought to you by the National Radio
Astronomy Observatory, a facility of the
National Science Foundation operated under
cooperative agreement with Associated
Universities, Inc.

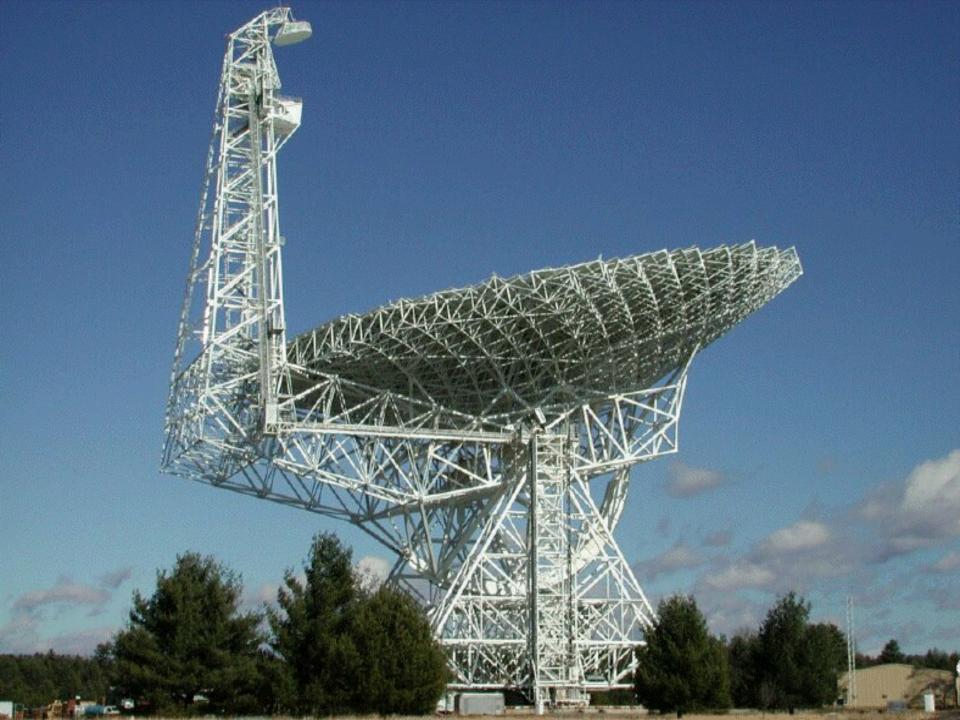






Electromagnetic Spectrum



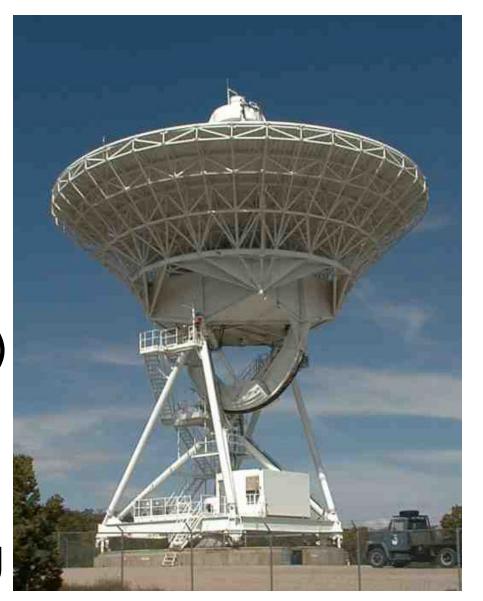




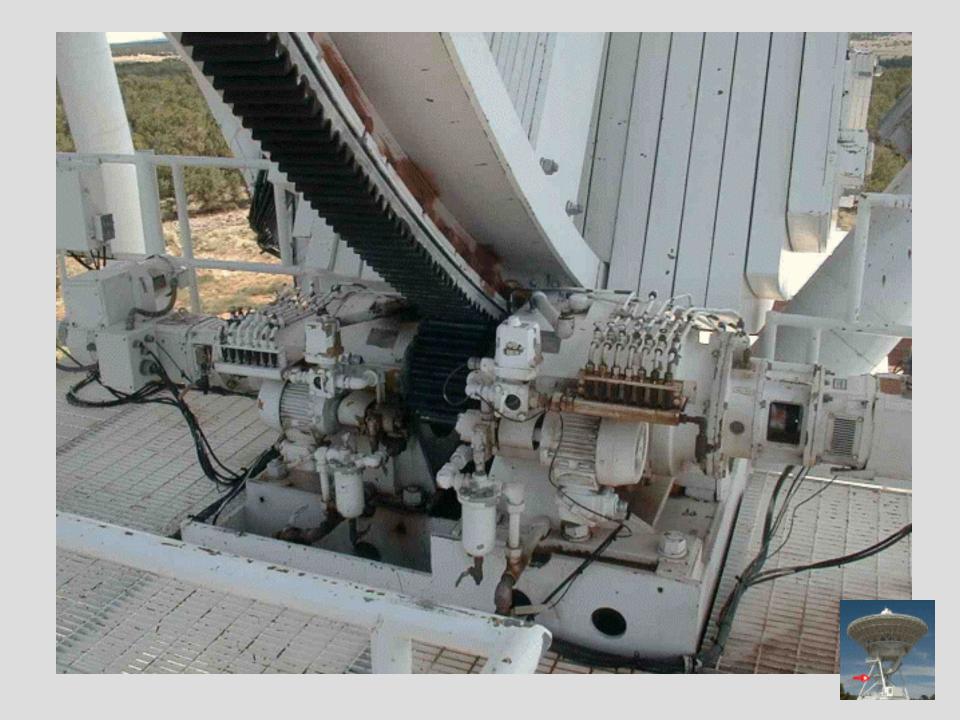


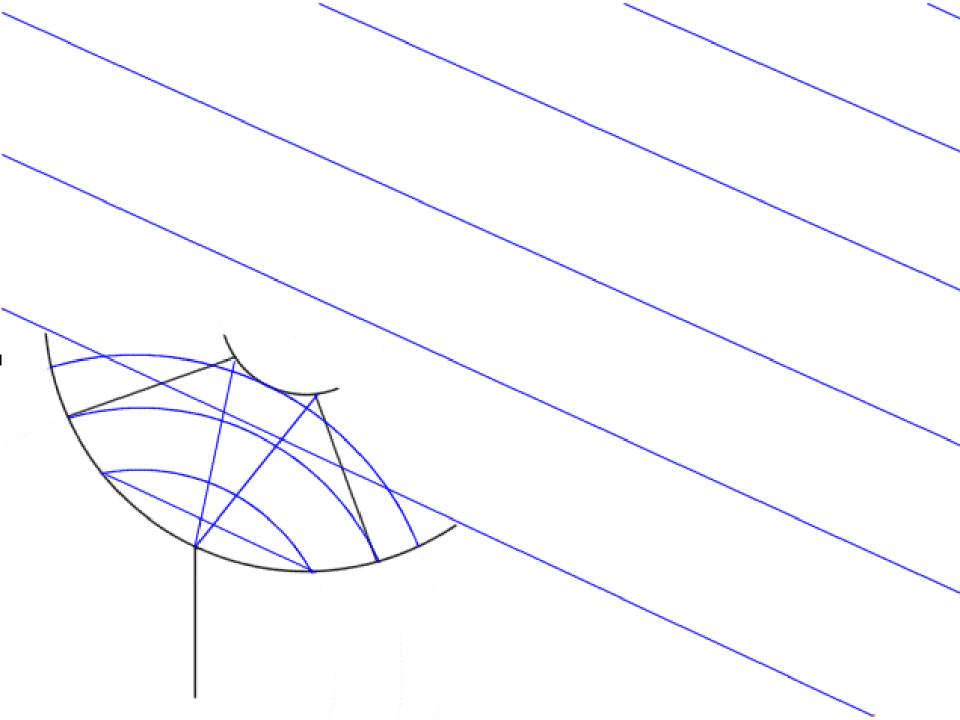
Each antenna:

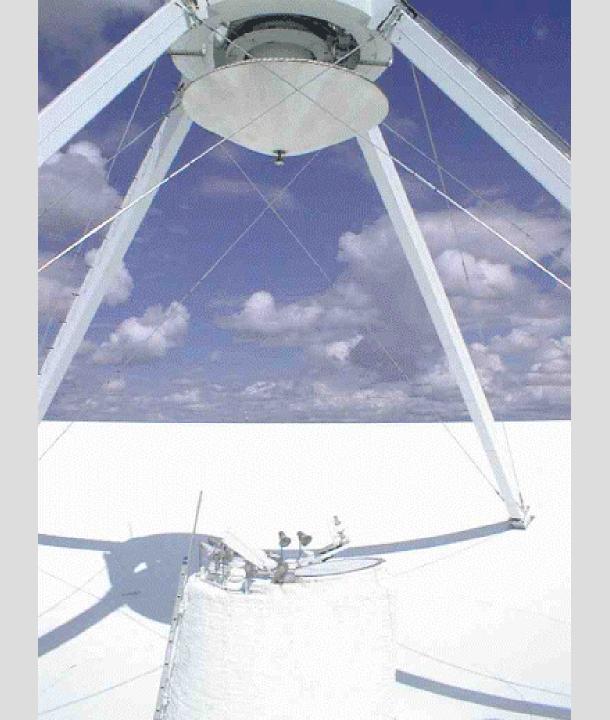
- weighs 240 tons
- is 25 meters (82') in diameter
- is as tall as a10-story building





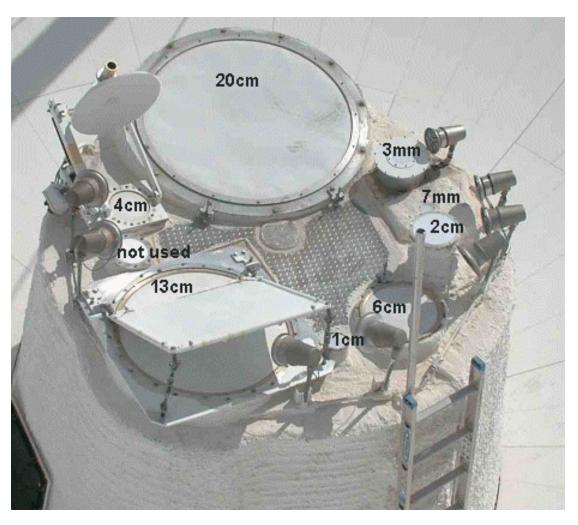








1.5GHz 20cm 2.3GHz 13cm 4.8GHz 6cm 8.4GHz 4cm 14GHz 2cm 23GHz 1.3cm 43GHz 7_mm 86GHz 3_mm



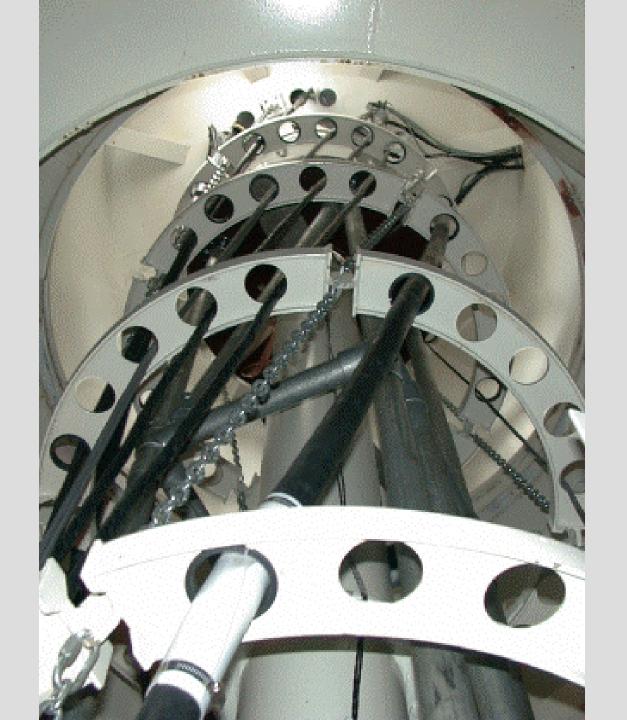
327MHz 90cm 610MHz 50cm

























Array Operations



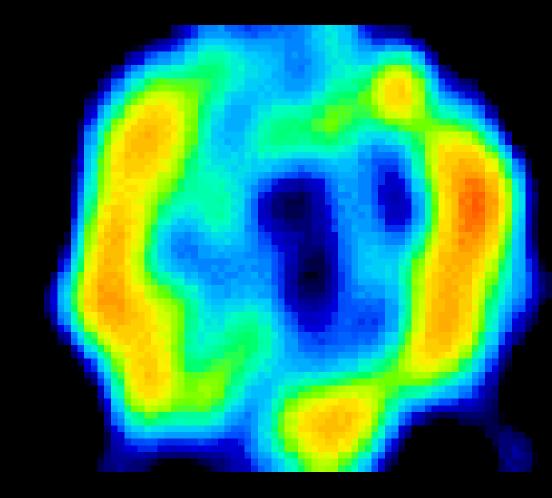
The correlator console





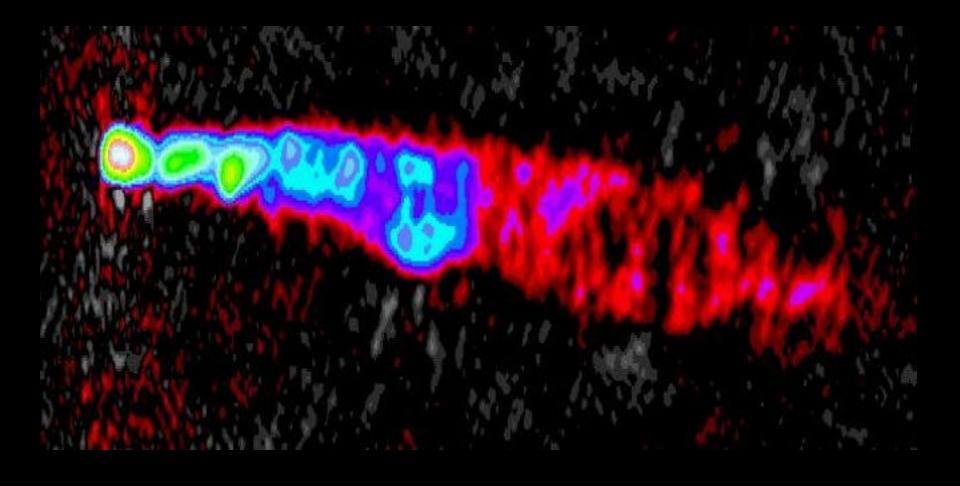


The array operator console



SN1993J

Studying the structure of supernovae



3C120
Studying the motion of jets
moving near the speed of light.



CLASS B1359+154
Studying gravitational lenses

www.nrao.edu

The Very Long Baseline Array

Brought to you by the National Radio
Astronomy Observatory, a facility of the
National Science Foundation operated under
cooperative agreement with Associated
Universities, Inc.