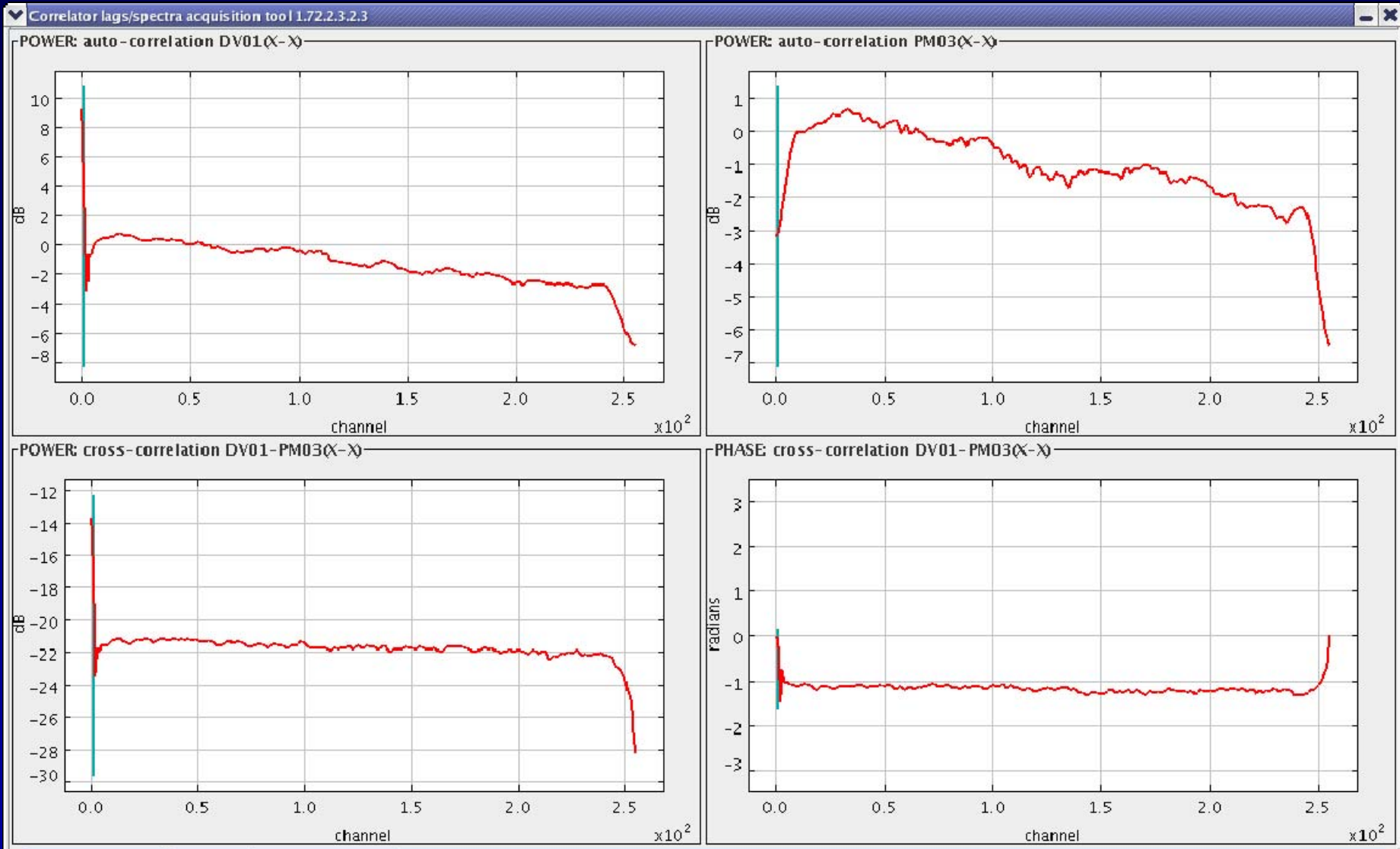


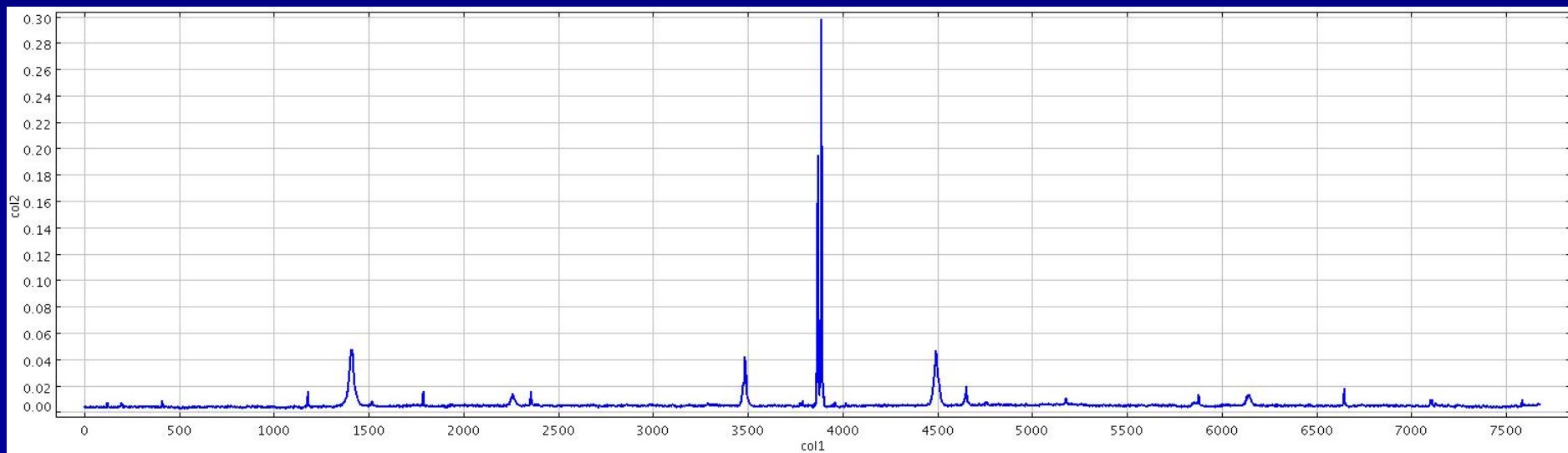
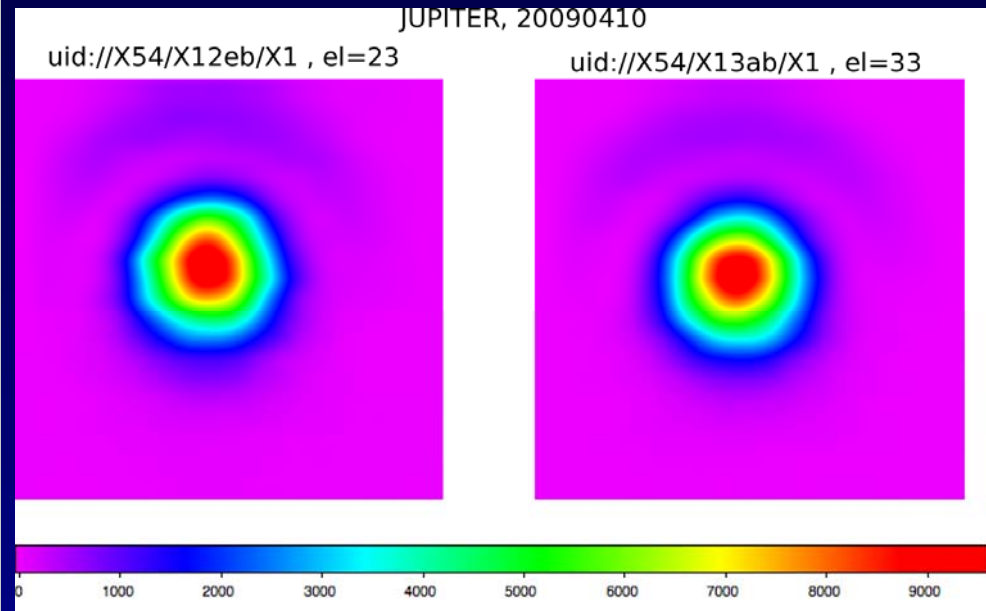
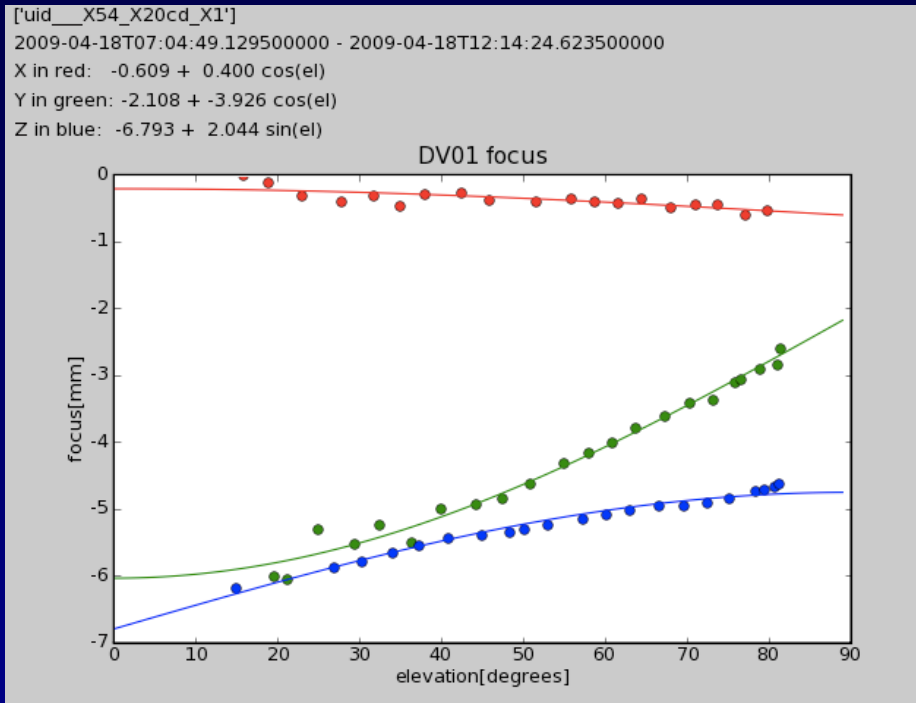
ALMA STATUS – May 2009



- AIV tests of THREE antennas in full swing.



- Working through pointing, focus, beams, sky dips...

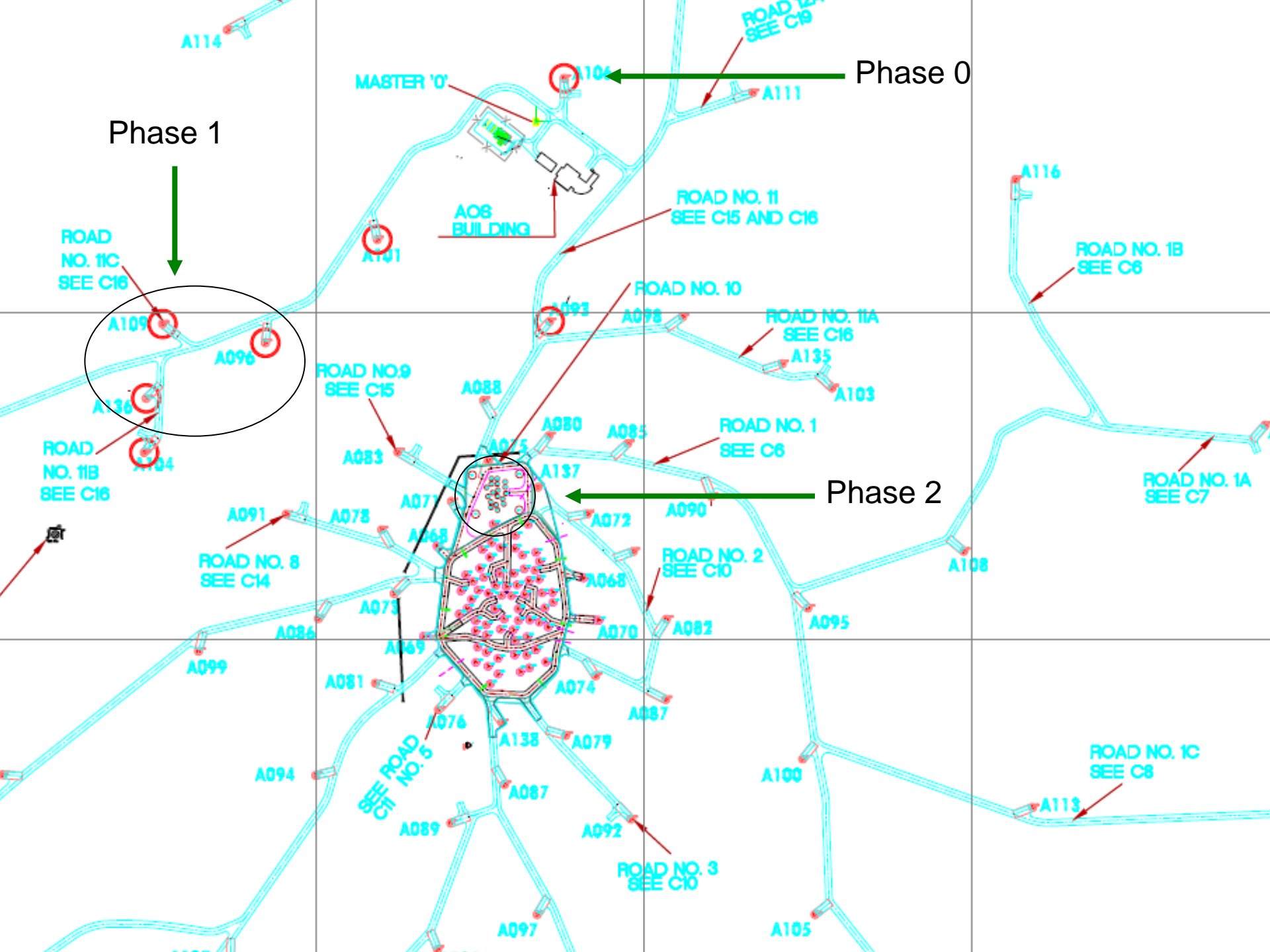


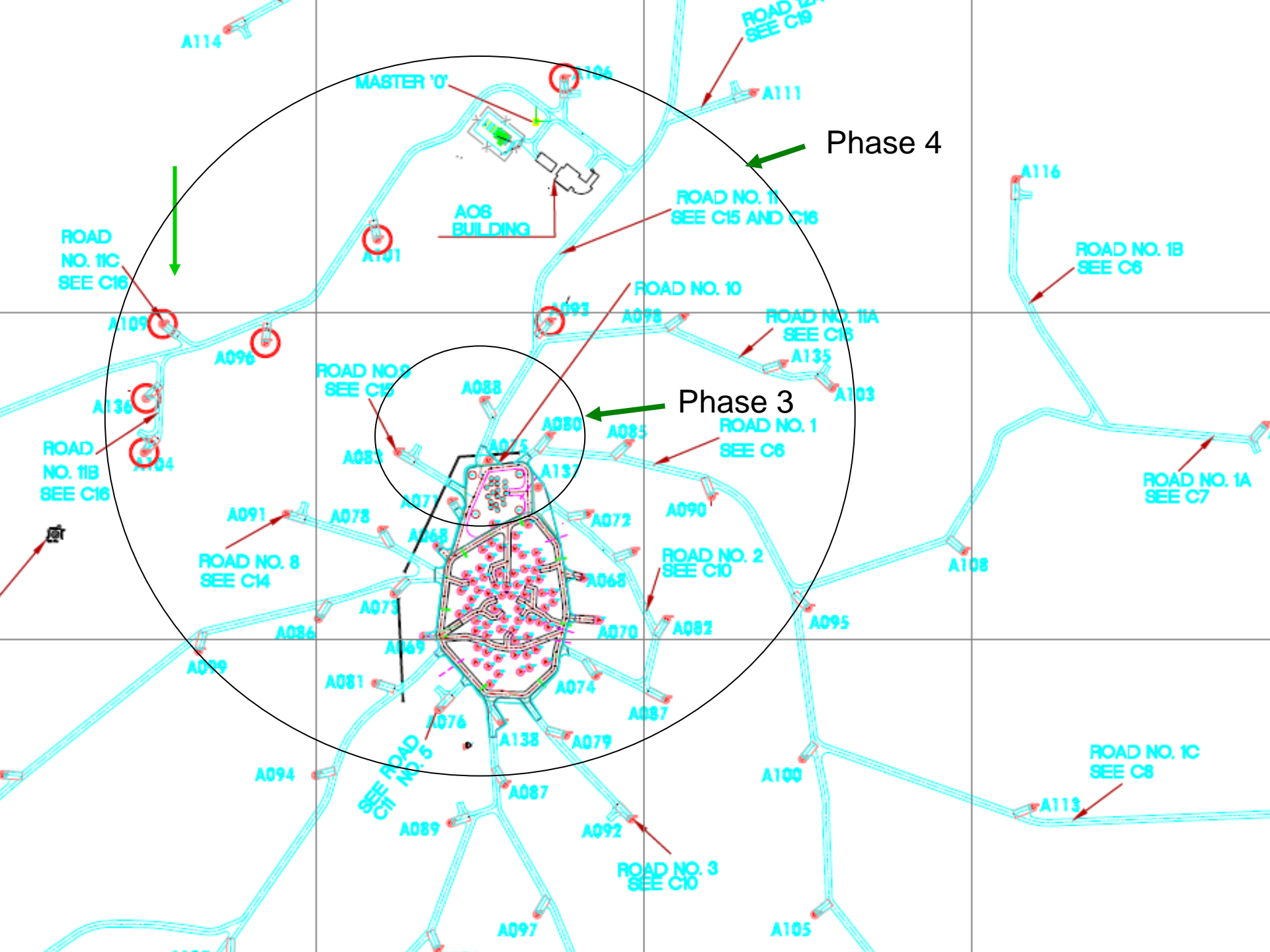
Recent Major Items

- Conditional Acceptance of second Vertex antenna
- Arrival of first AEM antenna on site
- First (two) Water Vapour Radiometers fully accepted
- Software version 6.0.1 installed and in use
- Third “Engineering” Front End accepted (from EU)
- 3rd and 4th Back End “Antenna Articles” accepted
- Operational Laser Local Oscillator system at OSF
- Operational Readiness Review of North American Front-End Integration Centre conducted
- Plans for a Power Line have been shelved – we now plan to generate power locally.

New Plan for Occupation of Antenna Stations

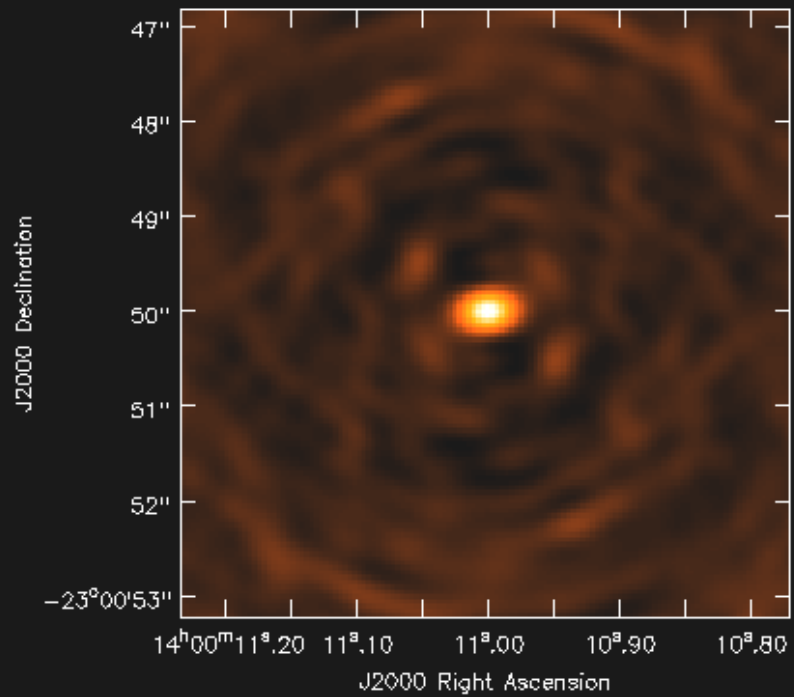
- Phase 0 Jun '09 1 pad for antenna checkout
- Phase 1 Sep '09 3 pads for first fringes / closure
- Phase 2 Jan '10 10 ACA pads - initial commissioning
- Phase 3 July '10 add 6 inner array pads
- Phase 4 Mar '11 for Early Science - central cluster
plus 20 inner array pads
- Phase 5 Oct '11 high resolution – baselines to ~ 4km
- Phase 6 Apr '12 goal for completion of outer array



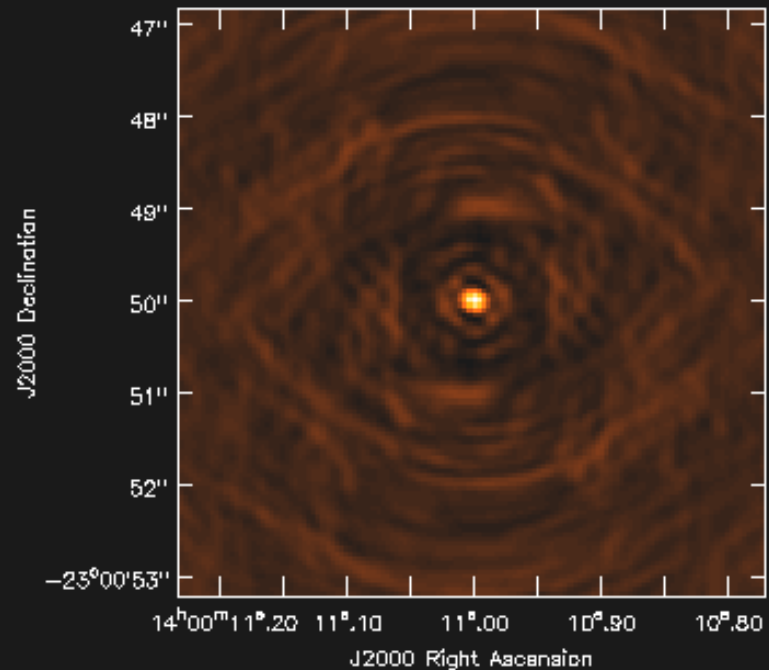


Phase 4 Early Science Beams

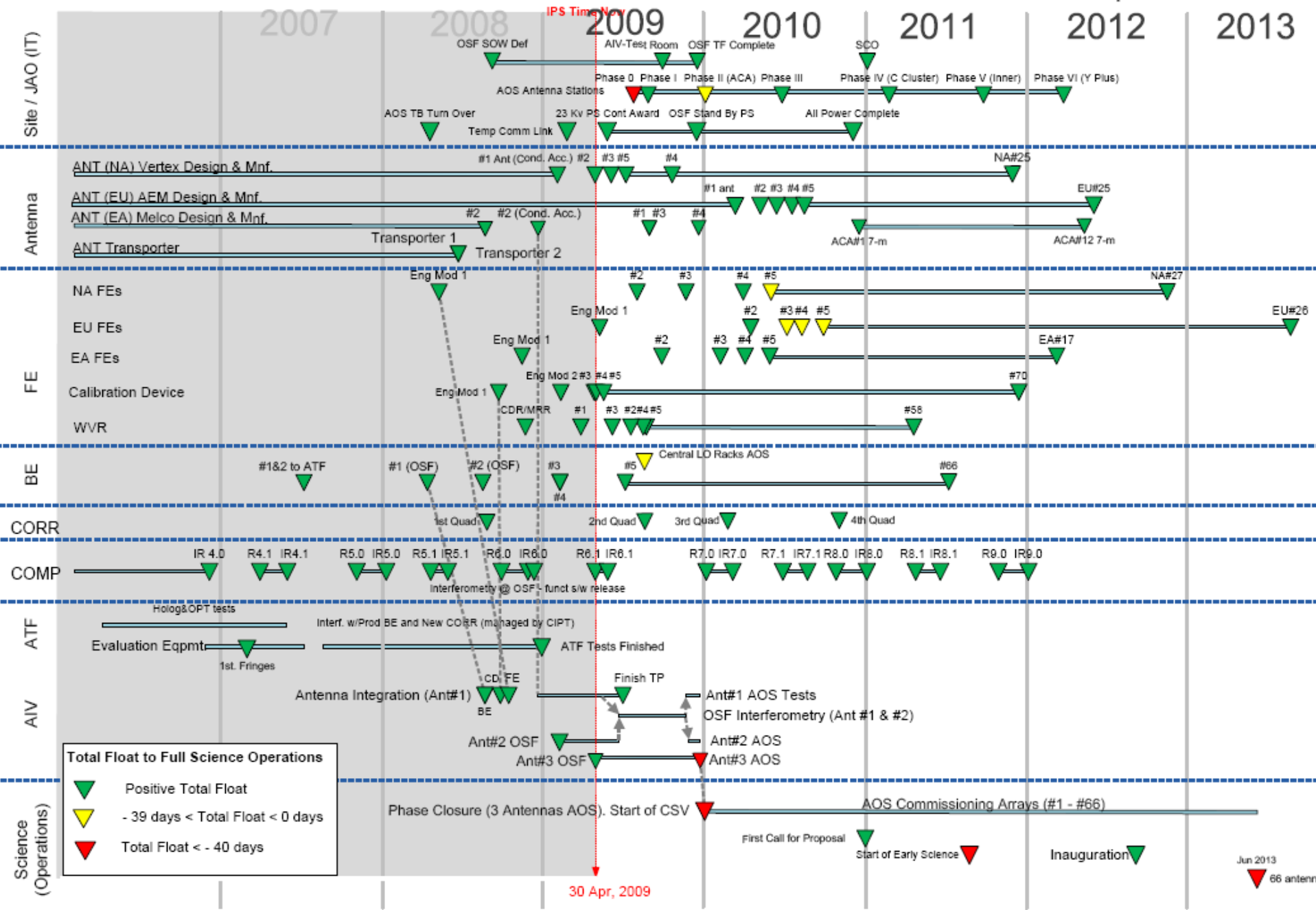
Medium



Large



ALMA General Overview – Forecast Dates as of 30 April 2009





www.alma.cl

The Atacama Large Millimeter/submillimeter Array (ALMA), an international astronomy facility, is a partnership among Europe, Japan and North America, in cooperation with the Republic of Chile. ALMA is funded in Europe by the European Organization for Astronomical Research in the Southern Hemisphere (ESO), in Japan by the National Institutes of Natural Sciences (NINS) in cooperation with the Academia Sinica in Taiwan and in North America by the U.S. National Science Foundation (NSF) in cooperation with the National Research Council of Canada (NRC). ALMA construction and operations are led on behalf of Europe by ESO, on behalf of Japan by the National Astronomical Observatory of Japan (NAOJ) and on behalf of North America by the National Radio Astronomy Observatory (NRAO), which is managed by Associated Universities, Inc. (AUI).