# Observation Capabilities for Cycle 7 Supplemental Call

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## Important Points

- Only standard observing modes
- Same ACA stand-alone capabilities as those for the main call



## What is the capabilities?

- Array components
  - The ACA 7-m array or the 7-m array plus the total power (TP) array
  - At least ten 7-m antennas and three 12-m antennas
- Spectral Setup
  - Receiver bands 3, 4, 5, 6, 7, and 8
  - Spectral-line and continuum observations for the 7-m array, only spectral-line observations for the TP array.
  - No spectral scan.
- Field setup
  - Single field and mosaics

#### Table 3: List of non-standard modes

#### Bands 9 and 10 observations

Band 7 observations with maximum baselines > 5 km if a suitable phase calibrator is not available within 5 degrees of the science target<sup>1</sup>

All polarization observations

Bandwidth switching projects (having less than 937.5 MHz aggregate bandwidths over all spectral windows)

Solar observations (Bands 3, 6 and 7)

**VLBI** observations

User-specified calibrations

Astrometric observations

Config	Lmax		Band 3	Band 4	Band 5	Band 6	Band 7	Band 8
	Lmin		100 GHz	150 GHz	183 GHz	230 GHz	345 GHz	460 GHz
7-m Array	45 m	AR	12.5"	8.4"	6.8"	5.4"	3.6"	2.7"
	9 m	MRS	66.7"	44.5"	36.1"	29.0"	19.3"	14.5"

### Source restrictions

- ACA observations will have a severe shadowing at low elevations.
- Special attention to DEC>+25, DEC<-70</li>

<a href="https://almascience.nao.ac.jp/proposing/7m-array-supplemental-call">https://almascience.nao.ac.jp/proposing/7m-array-supplemental-call</a>
<a href="https://almascience.nao.ac.jp/documents-and-tools/cycle7/alma-proposers-guide">https://almascience.nao.ac.jp/documents-and-tools/cycle7/alma-proposers-guide</a>

