



ALMA Proposal Preparation

Visit our website: <https://www.alma-allegro.nl/>

Allegro videos available online:

- ALMA CfP & Capabilities (this video)
- Observing Tool (OT)
- Dual-anonymous review
- Simulating ALMA observations



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ALMA - Cycle 8 Call for Proposals

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ALMA - Cycle 8 Hours Offered

12-m array: 4300

7-m + TP array: 3000



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ALMA - Cycle 8

Antennas Offered

12-m array: 43

7-m array: 10

TP array: 3



ALMA - Cycle 8

Bands

Band 3	84 - 116 GHz	2.6 - 3.6 mm
Band 4	125 - 163 GHz	1.8 - 2.4 mm
Band 5	158 - 211 GHz	1.4 - 1.9 mm
Band 6	211 - 275 GHz	1.1 - 1.4 mm
Band 7	275 - 373 GHz	0.8 - 1.1 mm
Band 8	385 - 500 GHz	0.60 - 0.78 mm
Band 9	602 - 720 GHz	0.42 - 0.50 mm
Band 10	787 - 950 GHz	0.32 - 0.38 mm



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ALMA - Cycle 8 Configurations

C-1 (160 m) to C-8 (8.5 km)
-no C-9 and C-10 this cycle



ALMA - Cycle 8

Baselines

Maximal - 8.5 km

Band 3, 4, 5, 6, 7 ~28 mas

Maximal - 3.6 km

Band 8, 9, 10 ~ 46, 33, 24 mas

Full table page 34 of the Call for Proposals

<https://almascience.eso.org/documents-and-tools/cycle8/alma-proposers-guide>



ALMA - Cycle 8

Configurations

Configuration	Baseline(m)	AR	MRS(Band3/100GHz)
7m	9-45	12.5"	66.7"
C-1	15-161	3.4"	28.5"
C-2	15-314	2.3"	22.6"
C-3	15-500	1.4"	16.2"
C-4	15-784	0.92"	11.2"
C-5	15-1400	0.54"	6.7"
C-6	15-2500	0.31"	4.1"
C-7	64-3600	0.21"	2.6"
C-8	110-8500	0.096"	1.4"



ALMA - Cycle 8

Start date	Configuration	Longest baseline	LST for best observing conditions
2020 October 1	C-8	8.5 km	~ 22—10 h
2020 October 20	C-7	3.6 km	~ 23—11 h
2020 November 20	C-6	2.5 km	~ 1—13 h
2020 December 1	C-5	1.4 km	~ 2—14 h
2020 December 20	C-4	0.78 km	~ 4—15 h
2021 January 10	C-3	0.50 km	~ 5—17 h
2021 February 1	<i>No observations due to maintenance</i>		
2021 March 1	C-1	0.16 km	~ 8—21 h
2021 March 20	C-2	0.31 km	~ 9—23 h
2021 April 20	C-3	0.50 km	~ 11—1 h
2021 May 20	C-4	0.78 km	~ 13—3 h
2021 June 20	C-5	1.4 km	~ 15—5 h
2021 July 11	C-6	2.5 km	~ 16—6 h
2021 July 30	C-5	1.4 km	~ 17—7 h
2021 August 20	C-4	0.78 km	~ 19—8 h
2021 September 10	C-3	0.50 km	~ 20—9 h



ALMA - Cycle 8

Array Combinations

Most Extended configuration	Allowed configuration pairings	Multiplier 12m array	Multiplier 7m array	Multiplier TP array
7m	TP	-		1.7
C-1	7m & TP	-	7.0	11.9
C-2	7m & TP	-	4.7	7.9
C-3	7m & TP	-	2.4	4.1
C-4	C-1 & 7m & TP	0.34	2.4	4.0
C-5	C-2 & 7m & TP	0.26	1.2	2.1
C-6	C-3 & 7m & TP	0.25	0.6	1.0
C-7	C-4	0.23	-	-
C-8	C-5	0.22	-	-



ALMA - Modes

- Continuum & Spectral observations (All bands)
- Mosaics (Bands 3 to 9) - 150 pointings per SB
- Single dish spectral lines (Band 3 to 10)
- Polarisation - inc circular (Bands 3 to 7)
- Solar observations (Bands 3 and 6)
- Spectral Scan
- mm-VLBI (Bands 3 and 6)



ALMA - Cycle 8

New Capabilities

- Solar Observations in Band 5
- ACA Observations in Band 9 and 10
- Spectral Scans with the ACA
- Mosaics for continuum linear polarisation observations in Bands 3 to 7 with 12m array
- VLBI for faint targets (<500 mJy)
- Pulsar Science with the 12m array as one telescope
- TP alone (but in the OT has to include ACA)
- No more non-standard modes



ALMA - Cycle 8

Proposal format

- Dual Anonymous Review
- Large Programs proposal format
- Observing Tool features
- Stand-alone supplemental ACA call



ALMA - Cycle 8

Key Dates



New dates will be uploaded asap



REMEMBER

to read the

proposer's guide



<https://almascience.eso.org/documents-and-tools/cycle8/alma-proposers-guide>



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Information & news

Allegro website: <https://www.alma-allegro.nl/>



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Thank you for listening Happy Proposing!

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