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## What bands, frequencies, or wavelength ranges are available?

Sarah Wood - 2024-03-19 - General ALMA Queries

Nine observing bands are currently available observations. They are designated bands 1,3, 4, 5, 6, 7, 8, 9 and 10. The nominal frequency & wavelength ranges are:

Band	Frequency Range (GHz)	Wavelength Range (mm)
1	35-50	8.5-6
3	84-116	2.59-3.57
4	125-163	1.84-2.40
5	158 - 211	1.42 - 1.90
6	211-275	1.09-1.42
7	275-373	0.80-1.09
8	385-500	0.6-0.78
9	602-720	0.42-0.5
10	787-950	0.32-0.38

These are the nominal frequency ranges for continuum observations. The OT will give validation warnings if a) any part of a spw is closer than 30 MHz to the baseband edge or b) more than half of the spw is within (30 MHz + the line width) of the baseband edge.

For more information on the observing bands, frequencies or wavelength ranges available for science observations, refer to the [Technical Handbook](#)

Please also see the [Observing With ALMA - A Primer](#) for an introduction on how to use ALMA.

Related article: [In what order are bands expected to be added?](#)