

## V109b Update on ALMA Operations - Spring 2026

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This presentation provides an overview of ALMA operations since the previous ASJ meeting in September 2025. The Cycle 11 observing period concluded at the end of September 2025 and was the most successful in ALMA's history in terms of observing hours. A total of 4,496 hours of science-quality data were delivered with the 12-m Array, and record observing hours were also achieved with the 7-m Array and the Total Power Array. These results were obtained despite several snowstorms during the worst winter in a decade at the site. Prioritization of high-frequency observations (Bands 9 and 10) also contributed to sustaining the record-high observing hours in those bands. On the other hand, the severe winter weather caused delays in the long-baseline configuration schedule, resulting in operation in the hybrid C-9/10 configuration rather than the planned C-10. Regarding data processing and delivery, 91% of pipeline-calibrated data were delivered within 30 days. Cycle 12 commenced immediately after Cycle 11 and has progressed smoothly, surpassing the best start of the previous cycle.

Underlying these achievements, ALMA is addressing infrastructure obsolescence alongside continued maintenance to keep the Arrays in a healthy operational state. In parallel, preparations for the Wideband Sensitivity Upgrade are underway across hardware, software, and science operations.