



## ALMA BOARD MEETING November 16-18, 2022

### PUBLIC SUMMARY

The ALMA Board convened at SCO, between the 16 and 18 of November 2022, with the following attendees:

Board Chair	Linda Tacconi (EU)
Board Vice-Chair	James Di Francesco (NA)
Board Members	Eduardo Ibar (CL)
	Joe Pesce (NA)
	Karin Öberg (NA)
	Saku Tsuneta (EA)
	Tom Ray (EU)
	Tony Beasley (NA)
	Toru Yamada (EA)
	Toshikazu Onishi (EA)
	Xavier Barcons (EU)
Board Assessors	Andreas Kaufer (EU)
	Satoru Iguchi (EA)
Board Secretary (acting)	Patrick Donahoe
JAO	Sean Dougherty (ALMA Director)
	Norikazu Mizuno (acting ALMA Deputy Director of Operations and Head of Engineering)
	John Carpenter (acting ALMA Deputy Director of Development and Observatory Scientist)
	Elizabeth Humphreys (Head of Science Operations)
	Cristián Puentes (Head of Administration)
	Iván López (Health, Safety and Environmental Manager)
	Rafael Mena (Human Resources Manager)
	Valeria Foncea (Education and Public Outreach Manager)
Executives	Adam Cohen (AUI President)
	Álvaro González (NAOJ ALMA Program Manager)
	Luis Chavarria (ESO Representative in Chile)
	Martin Zwaan (acting ESO ALMA Programme Manager)

	Paulina Bocaz (AUI/NRAO Representative in Chile)
	Phil Jewell (NRAO ALMA Program Manager)
	Teruyuki Watanabe (appointed NAOJ Representative in Chile)
	Tetsuhiro Minamidani (NAOJ Representative in Chile)
ASAC Chair	Mario Tafalla
Observers	Crystal Brogan (NA)
	María Díaz Trigo (EU)
<i>*Could not attend</i>	Daniel Weselka (EU Board Member)
	Debra Fischer (NA Assessor)

## PUBLIC SUMMARY

The ALMA Board held its November 2022 meeting, at the Santiago Central Office (SCO), Chile.

The Board's Chair, Linda Tacconi, welcomed all Board members, assessors and attendees, noting especially the attendance of Eduardo Ibar, who was attending his first meeting as Chile's Board Member.

In addition to other matters during the meeting, the Board:

1. Reviewed the status of ALMA
2. Reviewed the status of Cycle 8, 9 and 10
3. Reviewed the impact and recovery efforts resulting from the October 2022 cyberattack
4. Was briefed about the feasibility of using renewable power in ALMA
5. Received the ASAC report from the ASAC Chair
6. Reviewed the status of the Wideband Sensitivity Upgrade
7. Approved the ALMA2030 Data Transmission System (DTS) Project – Phase 1
8. Approved the AT.CSP – ALMA Talon Central Signal Processor (2<sup>nd</sup> Generation ALMA Correlator) Project
9. Approved the 2023 ALMA Budget
10. Discussed the ALMA Director's succession plan regarding the Deputy Director
11. Approved the ALMA Director's self-appraisal
12. Approved the 2023 goals for the ALMA Director and Key Personnel
13. Appointed 2 new ASAC members
14. Designated Toshikazu Onishi and Linda Tacconi, as Board Chairperson and Board Vice Chairperson, respectively, for two-year terms effective January 1, 2023
15. Appointed/reappointed the members and Chairpersons of the Board's sub-committees for 2023-2024.

## **ALMA Overview and Cycle 8/9 update**

The Board noted the presentation given by the ALMA Director, regarding the status of ALMA, including:

- General outcome of Cycle 8, with observing levels similar to pre-pandemic times in spite of continuing COVID and fiscal challenges
- Summary of the Cycle 9 call for proposal process
- Impact of the cyberattack on observing time
- Other JAO considerations, regarding Education and Public Outreach – related matters.

The Board noted the Cycle 8/9 update presentation given by the Head of Science Operations, including:

- Key achievements and operational highlights in Cycle 10
- New capabilities available in Cycle 10
- Postponed activities due to increased workload of WSU-related activities

## **Scientific Matters**

The Board noted the presentations given by the Observatory Scientist, the Chair of the ASAC, and the Chair of the Board's Science Committee regarding:

- Recent scientific highlights
- Joint Proposal agreements
- Assessment of ALMA's scientific capabilities, system performance and of scientific outcomes

After deliberation of the range of science expertise and other requirements, the Board approved the appointment or reappointment of the following two members to the ASAC:

- EA: Lihwai Lin for a 3-year term, starting January 1, 2023 until December 31, 2025.
- EU: Maryvonne Gerin for a 3-year term, starting January 1, 2023 until December 31, 2025.

## **Development Matters**

The Board noted the presentation given by the JAO WSU Project Manager, regarding the Status of the WSU, including:

- Overall goals of the Board-approved roadmap and implementation plan
- Outcome of the October 2022 WSU System Requirements Review
- Future ALMA 2030 challenges

## **Financial Matters**

The ALMA Board noted the report of the ALMA Budget Committee on the 2022 budget execution and financial results and projections to the end of the year.

Also, subject to the FY2023 and FY2022 budget appropriation process in the USA and Japan, respectively, and the approval by ESO Council, the Board approved the proposed 2023 ALMA Operations Budget.

Finally, the Board noted the status of the Forward Look Plan for 2023-2027.