

第 2 回 ALMA 科学諮問委員会 議事概要

Date and time : March 14 , 2025 16:00 - 18:10 (JSAC starts at 16:50)

Attendees:

JSAC: Yuri Aikawa, Fumi Egusa, Shinya Komugi, Takuya Hashimoto, Kazuhito Motogi,
Hideo Sagawa, Hidetoshi Sano, Yoshito Shimajiri, Shigehisa Takakuwa, Yoichi Tamura,
Toshikazu Onishi

EASAC: Jongsoo Kim, Li-Hwai Lin, Sasha Trippe, Aran Lyo, Patrick Koch

Ex officio: Takuma Izumi, Misato Fukagawa, Bunyo Hatsukade, Atsushi Nishimura,
Masao Saito

Agenda:

EASAC 16:00-16:50

1. ALMA report (Fukagawa/Izumi/Hatsukade)
2. Discussion

JSAC 16:50-18:10

1. Domestic ALMA report (Fukagawa/Izumi/Hatsukade)
2. NRO report (Nishimura)

3. ASTE report (Saito)
4. ngVLA report (Izumi)
5. Discussion - SAC Charge (September 2024 - August 2026)

EASAC meeting:

1. ALMA report (Fukagawa)
 - Cycle10 finished, Cycle 11 started
 - Data delivery has been smooth overall.
 - Cycle 11 started without significant issues.
 - Band 1 Science Verification data fully released.
 - Observatory projects data released.
 - Entering to Cycle 12 proposal season.
 - Science results from good synergy between JWST and ALMA
 - EA ALMA Science & Data Analysis Workshops (22-26 September 2025 in Kagoshima)
 - Wideband Sensitivity Upgrade (WSU)
 - Website on WSU has been set up in JAO.
 - WSU preparations are ongoing.
 - Update for EA Components: Data Transmission System (DTS), Band 8v2,

Total Power GPU Spectrometer (TPGS)

2. Discussion

The ASAC report and response from the ALMA Board were reviewed and discussed.

ASAC was in a majority agreement for removing the proprietary period on DDT proposals. Concerns discussed at the last EASAC were also shared within the ASAC and communicated to the Board. ASAC discussed the possibility of community projects during the transition to WSU and noted the need for a clear definition. The community projects are related to the current charge. ASAC was also charged to provide comments on community initiatives regarding ALMA capabilities beyond ALMA2030 once a year. The North America-Taiwan ALMA workshop (16-19 June) is a good chance for community initiatives. The EA ALMA Science workshop in Kagoshima will be a good opportunity for EASAC/Taiwanese SAC/Korean SAC/JSAC face-to-face meeting.

JSAC meeting:

1. Domestic ALMA report (Fukawaga, Izumi & Hatsukade)

- Great science continues

- New EPO officer (Yuichi Matsuda) from January 2025
- University-led release is also welcome, and ALMA can support in preparing artistic illustrations
- The Users Meeting was held on 18-20 December 2024 in Mitaka (>160 participants).
- Toward ALMA 3: International and Domestic Activities

2. NRO report (Nishimura)

- NRO accepted 1411 hours of proposals for charged telescope time.
- The SAM45 spectrometer was broken but repaired.
- New staff will join, and the Hands-on tutorial will be restarted.
- The 7BEE receiver will be open in the 2025 semester.
- A new company, INTO-ARCS, was established for the tour.
- Detective Conan's movie has a huge impact.

3. ASTE report (Saito)

- New staff (Rei Enokiya) joined.

- The web page is under update.
- DESHIMA2 commissioning was done.
- AZ-B Torque Limiter was replaced.

4. ngVLA report (Izumi)

- Atsushi Nishimura joined the Technical Advisory Council (TAC).
- Kazuhiro Hada joined the Science Advisory Council (SAC).
- The NAOJ study group submitted a research proposal for the NAOJ Science Roadmap.
- The construction of the first prototype antenna at the VLA site is nearly completed.
- NRAO circulated a draft of the document that defines the form of contribution.
- An official contract was made with Waseda University and Nagoya Institute of Technology for research on the time/frequency reference distribution system.
- Initial design of ultra low-cost antenna was completed by MELCO.
- The next international workshop is planned to be held in Japan in 2026.

5. Discussion

Activities for gender equality and diversity were discussed. New JSAC charges were reviewed and discussed. The Japan Radio Astronomy Forum (Udenkon) report for JCMT will be shared. The EA ALMA Science workshop in Kagoshima can be a good opportunity to arrange a face-to-face meeting with the Taiwanese SAC/Korean SAC.