

第 2 回 ALMA 科学諮問委員会 議事概要

Date and time : February, 24 2021 13:30 - 17:30

This meeting was held online.

Attendees: Akio Inoue, Kotaro Kohno (Chair), Munetake Momose, Kazuhito Motogi, Toshikazu Onishi, Tomoharu Oka, Hideo Sagawa, Nami Sakai, Hiroko Shinnaga, John Silverman, Kengo Tachihara

Ex officio: Misato Fukagawa, Alvaro Gonzalez, Daisuke Iono, Takeshi Kamazaki, Ken Tatematsu

Agenda:

EASAC agenda (13:30-15:30)

1. ALMA Project/EAARC report (Gonzalez, Fukagawa)
2. Discussion on the ASAC charges (Kohno)

JSAC agenda (15:30-17:30)

1. ALMA/EAARC report (Japan specific items, if any) (Gonzalez, Fukagawa, Iono)
2. NRO report (Tatematsu)
3. ASTE report (Kamazaki)

EASAC meeting:

(JSAC attendees) + Aeree Chung, Jongsoo Kim, Patrick Koch, Li-Hwai Lin, Aran Ryo, Wei-Hao Wang

1. Alvaro Gonzalez gave the update on the ALMA operations and Future Development. The site was powered off for 7 months due to COVID-19, and the return to operation (both to the Santiago office and to the OSF) started late last year. 1st stage of AOS recovery started on Dec 10, and the 2nd stage of AOS recovery started on Dec 30th. February 2021 maintenance focuses on the completion of backlog of regular maintenance and continuation of the recovery. The goal of starting PI science is no later than mid-March 2021. Several important progresses were made in the development projects despite the global pandemic. The PAI review was successfully held for the first 10 cartridges of Band 1, eight horn-OMTs were produced and evaluated for Band 2, and CDMR was closed out for the ACA spectrometer. For development studies, new results were obtained in the microwave-photonics techniques, broadband RF/IF technology, digitizers, and multi-beam receivers.
2. Misato Fukagawa explained the plans for Cycle 8 2021 call for proposals. ALMA is currently on track for releasing the Cycle 8 2021 call for proposals on March 17. Users will need to update their “expertise” in the user profile in the Science Portal since it will be used to assign proposals in the distributed peer review. A Joint EA meeting to explain the distributed peer review system is scheduled for March 23, 9:30 (8:30 in Taiwan). Observatory encourages to submit large proposals that require more than 25 hours on 12m array.
3. The EASAC discussed the permanent charges presented to the ASAC for the upcoming virtual meeting in March. Daisuke Iono presented the ALMA-wide publication statistics, followed by a presentation on the ALMA Integrated Science Team’s view of the ASAC recommendation regarding the change in proprietary period. EASAC agrees that the number of projects which are scooped by an archival researcher appears small, but they expressed the concern that the current policy may be forcing the PIs to rush the publication with lower quality analysis. In addition, the EASAC discussed the advantage of strengthening protection for student projects. Finally, EASAC noted that it is sensible to delay the next ALMA conference until 2023, since the operation of ALMA has been suspended for one year and new data were not obtained during this period.

JSAC Meeting:

1. Alvaro Gonzalez presented the publication statistics which were specific to Japan, and an update on the NAOJ ALMA project. T. Minamidani was appointed as NAOJ Legal Representative in Chile, A. Gonzalez as Acting Head of NAOJ Chile and S. Sakamoto as EA ALMA Engineering Manager. A list of EA workshops and meetings held over the past year were presented. Updates on ALMA 2 were given.
2. Misato Fukagawa presented the updates of the EAARC. EA ARC will hold a proposal preparation meeting on March 22-23, 2021. JSAC recommended a few improvements to the current structure of the PI support. A proposal for the interferometer/radio astronomy school was presented. JSAC noted that summer is good timing for the school and JSAC is happy to be involved and collaborate with the ALMA project on the organization of the school.
3. The NRO director, Ken Tatematsu, presented a draft document describing the NRO's proposal that introduces a charged system-based operation plan of the Nobeyama 45m telescope starting from June 2022. JSAC discussed NRO's proposal,

which requires users to pay a certain fee to observe with the 45m telescope. The NRO proposal indicates that the observations will be shared risk with no compensation, which the NRO used to offer in the Common Use operation. Dr. Tatematsu proposed that data taken with this operation will not be made public, with no science assessments. The proposal also includes the NRO offering to observe time with the telescope without fee for master course students belonging to Japanese universities for some limited operation time with some scientific evaluations. Although this NRO's proposal contains a drastic change in operation that was unfortunately forced due to a tight budget of NAOJ to be expected in FY2022, JSAC decided to endorse this proposal with one change. For the data proprietary period policy, the JSAC recommended that the NRO would encourage PIs to make data available in the Japanese Virtual Observatory by providing them their data sets in FITS format. The NRO director agreed on this. The above document for the Nobeyama 45 m Telescope Operation's charged system will be opened and shared with the community members once NAOJ officially approves the document.

4. Takeshi Kamazaki presented the status of ASTE. ASTE was closed for 8 months, but no serious issue was identified after inspection. If COVID-19 situation allows, the plan is to restart the site in early March, start CSV in April, and execute open use programs carried over from 2020 (7 proposals). There will be no new call for proposals in 2021. A proposal to initiate a go/no-go review of Deshima 2.0 was presented. Since Deshima 1 was already reviewed in 2017, this review will focus on remaining A/I, performance, interface changes, schedule and staff organization and installation/CSV procedures. JSAC endorses this plan.