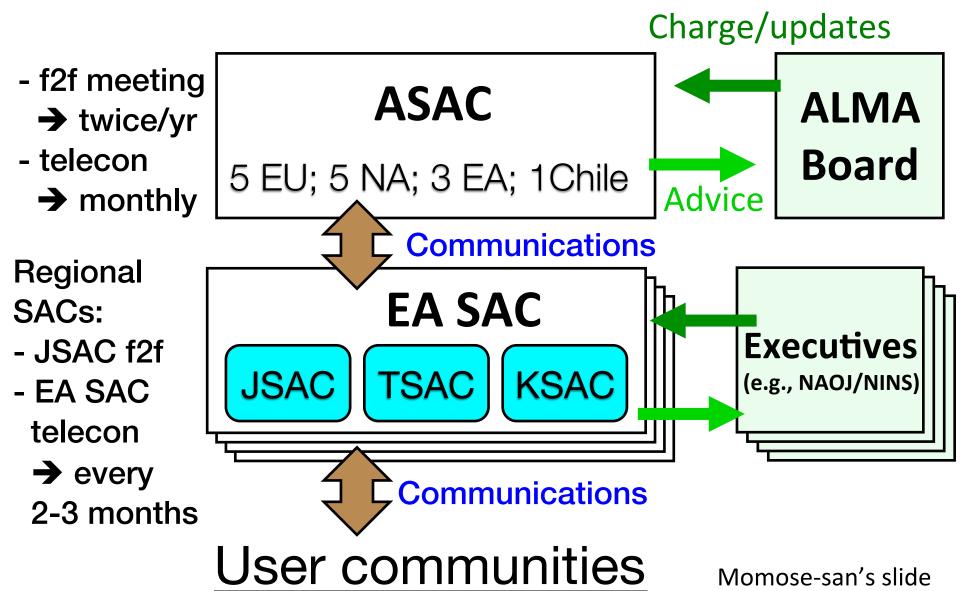
ALMA/45m/ASTE Users Meeting 2016 December 19 – 20, 2016 NAOJ, Mitaka, Japan

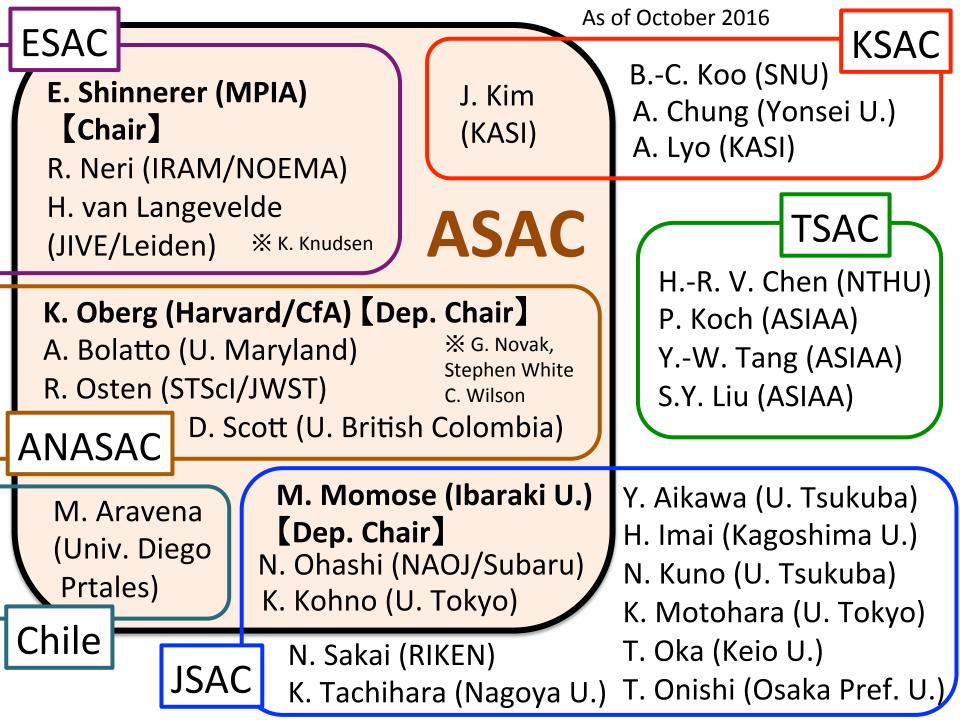
Science Advisory Committee (SAC) Report

On be half of JSAC/EASAC

Kotaro Kohno Univ. of Tokyo

SAC structure





Recent issues discussed in ASAC (1)

- Data delivery backlog
 - Extremely concerned about the growth of backlog in delivery of data to users.
 - Release of raw data to PIs? (the archive still requires full processing of the data, though)
- Archive/Imaging pipeline
 - Needs definition of science-ready imaging products for archive and PI use.
- CASA
 - Lack of backward compatibility is being a (serious) concern

Recent issues discussed in ASAC (2)

- Large programs
 - Ensure success of two accepted large proposals
- Proposal review
 - encouragement of community/review panel towards medium-sized proposals
 - access to ACA in standalone mode for Band 8 through
 10 to allow community to gain expertise
 - inclusion of ARC personnel as APR reviewers if community pool is too small important for EA!
 - inclusion of demographic information seems mandatory for different analyses (e.g. gender bias, success of non-traditional users etc.)

Recent issues discussed in ASAC (3)

- Development studies
 - significant progress on Band 2+ and 2+3 suggests need for a strategic decision in the near future.
- "ALMA2030" and new science goals of ALMA
 - While ALMA2030 set the basic science goals, the Board would like to see these encapsulated into new science goals, with (at least) one per major development initiative.
 - The three major initiatives are, broadly speaking, enhanced throughput (e.g., improvement of RX/IF/ correlators, etc.), longer baselines, and wider field of view (e.g., focal plane arrays).

Memo:

Current ALMA science goals

- 1. The ability to detect spectral line emission from CO or C^+ in a normal galaxy like the Milky Way at a redshift of z = 3, in less than 24 hours of observation.
- 2. The ability to image the gas kinematics in a solar-mass protostellar/protoplanetary disk at a distance of 150 pc, enabling one to study the physical, chemical, and magnetic field structure of the disk and to detect the tidal gaps created by planets undergoing formation.
- 3. The ability to provide precise images at an angular resolution of 0.1".

JSAC

- Regional SAC for ALMA project
- also plays a role as SAC for NRO 45m and ASTE 10m telescopes
- Members from projects (NAOJ Chile Observatory and Nobeyama Radio Observatory):
 - T. Hasegawa → S. Sakamoto,
 - S. Iguchi, K. Tatematsu, D. Iono
 - M. Saito (→?)
 - − T. Okuda → S. Asayama

Recent issues discussed in JSAC

- ALMA operations & ASAC issues
 - Region specific issues (e.g., ALMA PI support)
- Operation of NRO 45m telescope
 - Improvement of mapping performance at 3mm
 - New proposal due dates, new frameworks (e.g., Joint proposal)
- Operation of ASTE 10m telescope
 - Implementation of Band-8 on ASTE
 - ASTECAM CSV review
- Optimization of annual meetings/proposal due dates
 - Development workshop (July), user's meeting (December),
 ALMA (April), 45m/ASTE general/large/joint (July) + 45m
 short/ASTE general (December) + DDT

We need your feedback!