CASA Users Committee Report

ALMA/45m/ASTE Users Meeting 2021
2021.12.21

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Introduction

CASA User Committee (CUC) was established in 2014.

The CUC Charge

I.   User perception of CASA capabilities, usability, and performance for use with ALMA and VLA data
II. Suggest development priorities for the coming year
III. Comment on the CASA projects follow-up to their previous report

Annual Meeting (Oct. 11-14, 2021)

Mid-year Meeting (Jul. 28, 2021) from last year

CUC submits a report to the CASA manager after the annual meeting once per year

CUC members

Adam Avison (EU, Chair 2021)

Michael Bietenholz (NA)

Alessandra Corsi (NA)

Hauyu Baobab Liu (NA)

D.J. Pisano (NA)

Ruta Kale (IN)

Adam Leroy (NA, Next chair 2022)

Jihyun Kang (EA)

Olga Bayandina (EU)

Yoshimasa Watanabe (EA)

*CL member is vacant.

Underline members will rotate off.

CUC 2021 (October 11-14, Zoom telecon)

-Day 1
- CASA Overview
- CASA Users
- CASA Testing
- CASA Stakeholder Priorities
- Scientific Development

-Day 2
- Single Dish
- CARTA
- Pipeline
- Archives/SRDP
- VLBI

-Day 3
- Infrastructure Development
- Interactive Clean
- CASA Documentation & Helpdesk
- ngCASA/NGCI Status
- General Discussion

-Day 4
- Preliminary report-out

Follow-up of CUC Report 2020 and Updates

- CASA Reliability & Performance

- CARTA development

     => v.2.0, v3.0-beta, Capability gap: CARTA page in CASA Docs

- Viewer for interactive *tclean*

     =>develop next-generation interface tools

- Transition from CASA 5 to CASA 6

     => Sunset CASA 5 (5.8)

- OS support

     => CASA 6.4: OSX10.15,14, OS 11(intel) officially supported

     => ~~Ubuntu not officially supported, but~~ accepting bug reports

          Supporting Ubuntu users,

- VLBI functionality

     => Development ongoing

Follow-up of CUC Report 2020 and Updates

- Single dish

    => new task sdatmcor (CASA 6.2.0 -) etc.

    => Nobeyama pipeline release (CASA 6.1.1, 6.2.0)

- CASA Documentation

    => From Plone (https://casa.nrao.edu/casadocs)

        to github (https://casadocs.readthedocs.io/en/stable)

- CASA incremental releases

    => 2 major release/year

    => more frequent minor release (from 6.4.0) in 6 months

        => faster bug-fix

CUC Report 2021 (to be submitted in this week)

Recommendations (Focus Areas)

- CASA management: supporting pipeline team, VLASS

- User Servicing & Outreach: CASA testing code, status of tickets

- CNGI* and ngCASA: reviewing of the plans for CNGI and ngCASA

  * CASA Next Generation Infrastructure

- CARTA, Viewer & GUI:

    GUI specifically for *tclean*, refactoring *plotms*

- ARDG and Development work: GPU imaging

- Archival Data Processing, Pipeline, & SRDP

- OS Support: support currently-supported OS,

- Documentation

- Support for Other Interferometer: VLBI, GMRT, MeerKAT

- Single Dish

(See CUC website for full report)

Summary

CASA User Committee (Previous reports, related materials)
https://safe.nrao.edu/wiki/bin/view/Software/CASA/CASAUsersCommittee

Please read CASA Newsletter (Issue 10, 15 Oct. 2021)
https://science.nrao.edu/enews/casa_010/

Please send your feedback

ALMA helpdesk (ticket)

or CASA feedback (e-mail: casa-feedback_*at*_nrao.edu)

comments are also welcome on discussion forum of UM2021