

ALMA Science Archive

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Outline

- Status Update
- Improvements
- Near Future plans



- the archive runs smoothly, no critical operation issues came up
- total ~3800 ObsUnitSets are in the archive
 - ~2000 ObsUnitSets are in public
- total data size of contents: ~220 TB
 - raw data: ~180 TB
 - grow up rapidly, increases >80 TB in 2016



Improvements (1)

- Archive Query (submission/result)
 - query by Angular resolution and Largest angular scale
 - publication query/record are available (query by Bibcode will come soon)
 - showing QA2 status in results table
 - many useful features have been implemented

ALMA Science Archive Query

Query Form

Results Table

ALMA Science Archive Query

Query Form Results Table Publication list view Submit download request Results Bookmark Export Tab Showing 8 of 8 rows. Publication year -Publication title Bibcode First author Journal Filter: П 2014 2014A&A...570A..28V Viti. S. A&A Molecular line emission in NGC 1068 imaged with ALMA. II. Th García-Burillo, S. 2014A&A...567A.125G A&A 2014 Molecular line emission in NGC 1068 imaged with ALMA. I. An 2016ApJ...820...83S Scoville, N. ApJ 2016 ISM Masses and the Star formation Law at Z = 1 to 6: ALMA O Г 2016MNRAS.459.3629I Izumi, Takuma MNRAS 2016 ALMA observations of the submillimetre hydrogen recombinat 2016ApJ...818...42I Izumi, Takuma ApJ 2016 Submillimeter-HCN Diagram for Energy Diagnostics in the Cer 2016ApJ...829L...7G Gallimore, Jack F. ApJ 2016 High-velocity Bipolar Molecular Emission from an AGN Torus 2016ApJ...822L..10I Imanishi, Masatoshi ApJ 2016 ALMA 0.1-0.2 arcsec Resolution Imaging of the NGC 1068 Nu 2016ApJ...823L..12G García-Burillo, S. ApJ 2016 ALMA Resolves the Torus of NGC 1068: Continuum and Mole 2013.1.00188.5 NGC 1068 ь 1451.52 2017-01-04 1106.84 255.4U..2/3./8GHZ

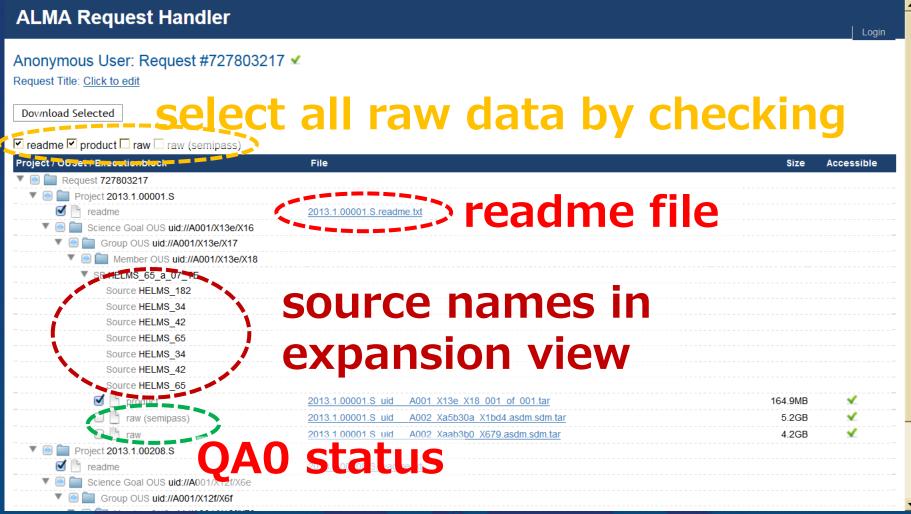


Improvements (2)

- Download section (Request Handler)
 - (present the full data hierarchy)
 - README file is available
 - show individually the QA0 status
 (pass/semipass) of the raw data files
 - show source name in expansion view



Improvements (2)





The Manual is available

Doc 4.15, ver. 1.0 | March. 2016

ALMA Science Archive Manual

https://almascience.nao.ac.jp/documents-and-tools/
cycle4/science-archive-manual

Doc 3.12, ver. 1.0 | November 2015

ALMA QA2 Data Products for Cycle 3







Near Future Plans

- Basic layout and online/tooltips improvements are always ongoing
 - Footprints comes soon!
 - enhancing query parameters (Galactic coordinates, FoV, sensitivity, Co-I name)
- Visual preview (quick-look) is still under initial development phase



Suggestions, wishes, comments, bugs?

Helpdesk

https://help.almascience.org/