

ALMA Archive, Data Products & Weblogs what to expect after your observations are made



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Atacama Large Millimeter/submillimeter Array
Expanded Very Large Array



The Condensed Version


- Download data from *Archive Query* and *Request Handler* tools on the ALMA Science Portal
- Data delivered after passing Quality Assurance (QA)
- The Pipeline Weblog—Calibration and Imaging Information
- Project tracking – SnooPI

Exploring the ALMA Archive

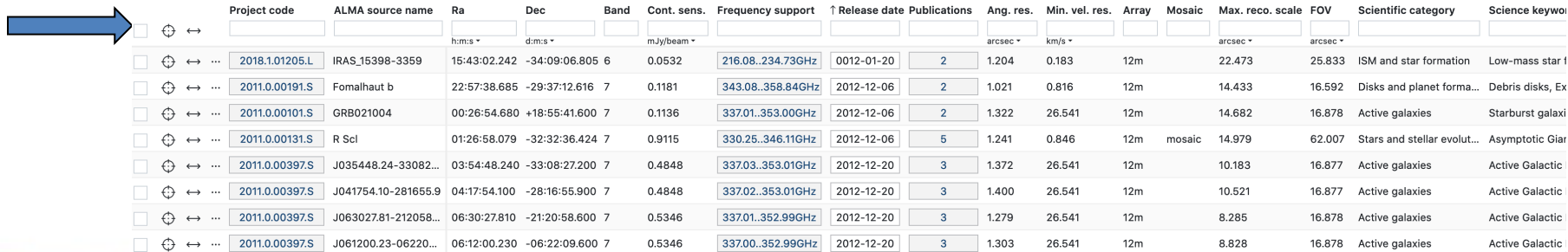
- All projects should start with the ALMA Archive
- Check for duplications
 - Same Target
 - Angular resolution is within a factor of 2
 - RMS is better by a factor of 2
 - See Appendix A of the Users' Policies for complete definition
- Use archival data! No need to apply!
- Archive interface
 - <https://almascience.org/aq>

Searching the Archive

- Filter columns based on target, project, or publication
- Hover over the top left search bar for expanded search fields












The screenshot shows the ALMA archive search interface. A blue arrow points to the search bar at the top left. Below the search bar are several filter panels: Position, Energy, Project, Publication, and Observation. Each panel contains various search criteria such as source name, frequency, project code, publication title, and observation date. To the right of the filter panels is a spectral plot showing intensity versus frequency (GHz) with labeled molecular lines. A blue arrow points to the search bar area.



The screenshot shows the search results table. A blue arrow points to the search bar area. The table has columns for Project code, ALMA source name, Ra, Dec, Band, Cont. sens., Frequency support, Release date, Publications, Ang. res., Min. vel. res., Array, Mosaic, Max. reco. scale, FOV, Scientific category, and Science keywords. The table contains several rows of search results.

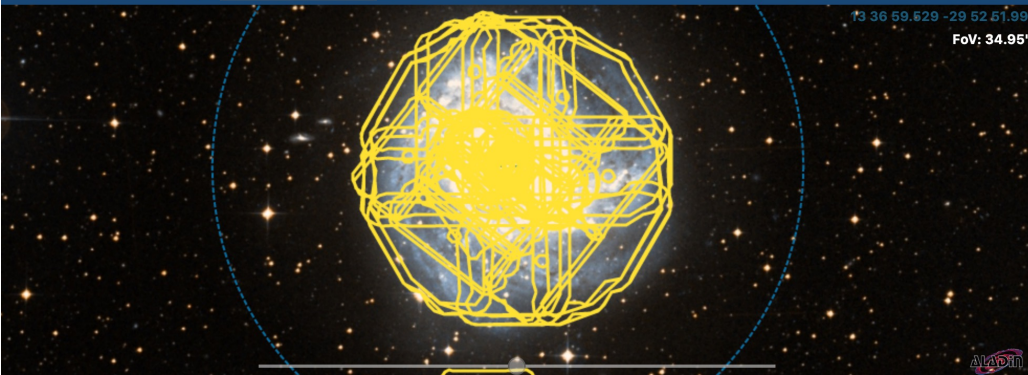
Project code	ALMA source name	Ra	Dec	Band	Cont. sens.	Frequency support	Release date	Publications	Ang. res.	Min. vel. res.	Array	Mosaic	Max. reco. scale	FOV	Scientific category	Science keywords
2018.1.01205.L	IRAS_15398-3359	15:43:02.242	-34:09:06.805	6	0.0532	216.08..234.73GHz	0012-01-20	2	1.204	0.183	12m		22.473	25.833	ISM and star formation	Low-mass star f
2011.0.00191.S	Fomalhaut b	22:57:38.685	-29:37:12.616	7	0.1181	343.08..358.84GHz	2012-12-06	2	1.021	0.816	12m		14.433	16.592	Disks and planet forma...	Debris disks, Ex
2011.0.00101.S	GRB021004	00:26:54.680	+18:55:41.600	7	0.1136	337.01..353.00GHz	2012-12-06	2	1.322	26.541	12m		14.682	16.878	Active galaxies	Starburst galaxi
2011.0.00131.S	R Scl	01:26:58.079	-32:32:36.424	7	0.9115	330.25..346.11GHz	2012-12-06	5	1.241	0.846	12m	mosaic	14.979	62.007	Stars and stellar evolut...	Asymptotic Giar
2011.0.00397.S	J035448.24-33082...	03:54:48.240	-33:08:27.200	7	0.4848	337.03..353.01GHz	2012-12-20	3	1.372	26.541	12m		10.183	16.877	Active galaxies	Active Galactic
2011.0.00397.S	J041754.10-281655.9	04:17:54.100	-28:16:55.900	7	0.4848	337.02..353.01GHz	2012-12-20	3	1.400	26.541	12m		10.521	16.877	Active galaxies	Active Galactic
2011.0.00397.S	J063027.81-212058...	06:30:27.810	-21:20:58.600	7	0.5346	337.01..352.99GHz	2012-12-20	3	1.279	26.541	12m		8.285	16.878	Active galaxies	Active Galactic
2011.0.00397.S	J061200.23-06220...	06:12:00.230	-06:22:09.600	7	0.5346	337.00..352.99GHz	2012-12-20	3	1.303	26.541	12m		8.828	16.878	Active galaxies	Active Galactic

Search for your Favorite Source

 Position	 Energy	 Project	 Publication	 Observation
<p>Source name</p> <input type="text" value="M83"/>  <small>search radius = 10 arcmin</small>	<p>Frequency</p>	<p>Project code</p>	<p>Publication Title</p>	<p>Observation Date</p> <input type="text"/>
<p>ALMA source name</p> <input type="text"/>	<div style="border: 1px solid black; padding: 5px;"> <p>Source name Search for a source name using the Sesame name resolver (wildcards are not supported)</p> <p>Description Use the Sesame service (combining a search of NED, Simbad and VizieR) to parse names commonly found throughout literature and return the coordinates.</p> <p>A search radius in arcmin can be added to the end separated by a comma. The default search radius is 10 arcmin. All observations that have footprints overlapping with the search cone will be returned.</p> <p>Examples Cen A M83 HUDF, 30</p> </div>			<p>Member ous id</p> <input type="text"/>
<p>RA Dec</p> <input type="text"/>	<div style="border: 1px solid black; padding: 5px;"> <p>Source M 83</p> <p>Coordinates (RA Dec) 13:37:00.91 -29:51:56.7</p> <p>Object type SBG</p> <p>Morphology type SAB(s)c</p> <p>Resolver  Sc=Simbad (CDS, via client/server) </p> </div>			<p>Object type</p> <input type="text"/>
<p>Galactic</p> <input type="text"/>				<p>Options</p> <p><input type="checkbox"/> Public data only</p> <p><input type="checkbox"/> Calibration observations</p>
<p>Target List</p> <input type="text"/> 				
<p>Angular Resolution</p> <input type="text"/>				
<p>Maximum Recoverable Scale</p> <input type="text"/>				

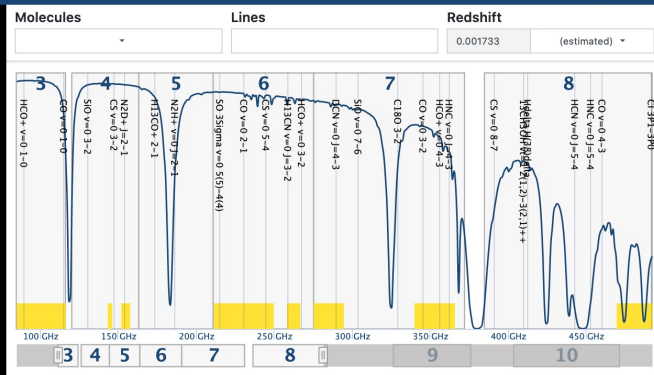
Apply Column Sub-Filters

Source name: M83 13 36 59.629 -29 52.6199
FoV: 34.95'



Molecules **Lines** **Redshift**

0.001733 (estimated)

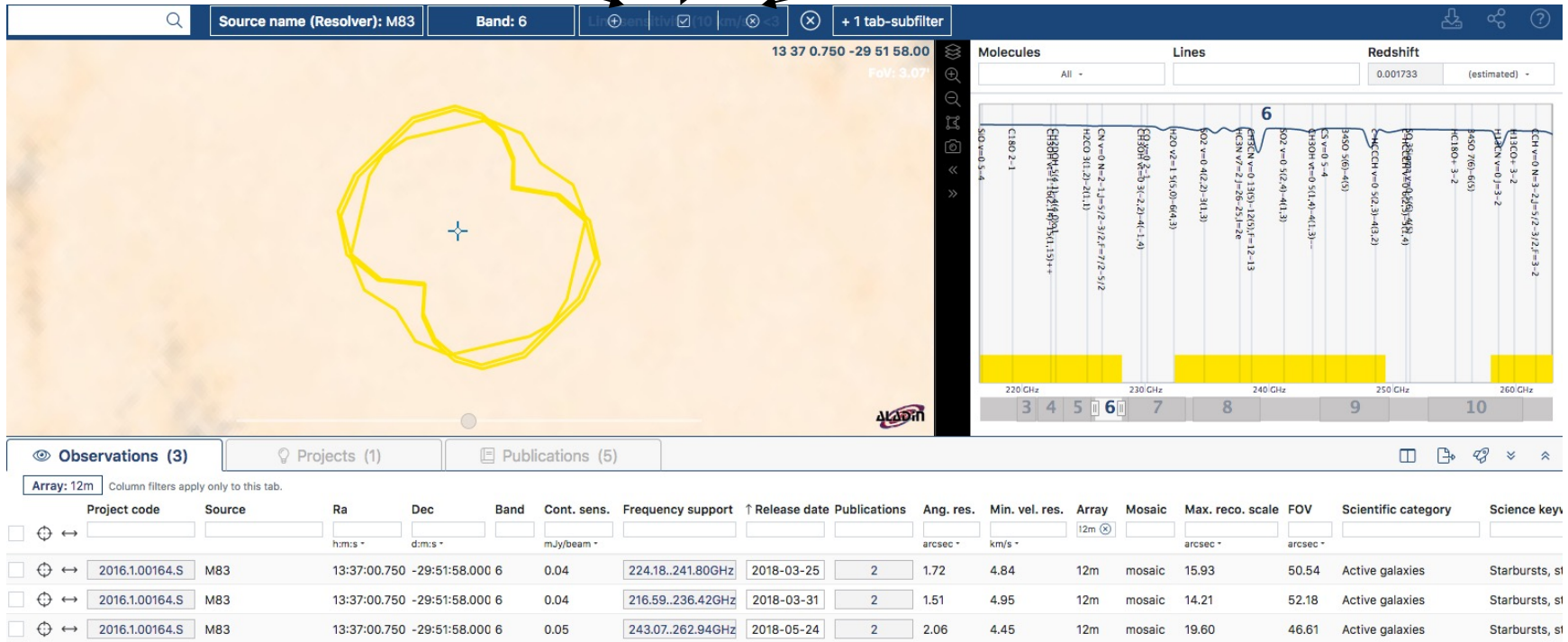


Observations (112) | Projects (20) | Publications (23)

Project code	ALMA source name	Ra	Dec	Band	Cont. sens.	Frequency support	↑ Release date	Publications	Ang. res.	Min. vel. res.	Array	Mosaic	Max. reco. scale	FOV	Scientific category	Science keyword
		h:m:s	d:m:s		mJy/beam				arcsec	km/s			arcsec	arcsec		
2011.0.00772.S	M83	13:37:04.763	-29:51:45.340	3	0.2781	100.63..115.39GHz	2013-09-28	4	1.145	1.269	12m	mosaic	11.612	196.704	ISM and star formation	Giant Molecular
2012.1.00762.S	m83	13:37:04.534	-29:50:23.433	3	0.2201	99.91..115.55GHz	2015-05-16	4	0.527	1.267	12m	mosaic	10.051	390.160	Local Universe	Spiral galaxies,
2013.1.01312.S	M83	13:37:03.885	-29:51:36.973	3	0.0376	85.64..101.39GHz	2016-05-09	1	2.762	3.274	12m	mosaic	40.480	176.743	Local Universe	Spiral galaxies,
2012.1.00762.S	m83	13:37:04.458	-29:50:23.465	3	1.2334	99.85..115.58GHz	2016-05-12	4	10.294	1.266	7m	mosaic	80.615	402.933	Local Universe	Spiral galaxies,
2013.1.01161.S	M83	13:37:00.742	-29:51:57.876	6	0.4043	229.31..247.13GHz	2016-07-31	11	1.298	2.369	12m	mosaic	21.264	250.960	Active galaxies	Starbursts, star
2013.1.00889.S	M83	13:37:05.500	-29:51:23.550	3	0.0218	95.92..111.56GHz	2016-08-05	0	1.714	5.249	12m	mosaic	48.802	121.175	Galaxy evolution	Galaxy chemist
2013.1.00889.S	M83	13:37:05.500	-29:51:23.550	3	0.0288	87.83..91.46GHz	2016-08-05	0	1.791	6.402	12m	mosaic	26.816	130.000	Galaxy evolution	Galaxy chemist
2013.1.00889.S	M83	13:37:05.500	-29:51:23.550	3	0.0155	84.56..100.11GHz	2016-08-05	0	1.389	5.849	12m	mosaic	19.049	128.108	Galaxy evolution	Galaxy chemist

Modify Searches

Invert Disable Remove



The screenshot shows the ALMA search interface. At the top, there are search filters: "Source name (Resolver): M83", "Band: 6", and a tab-subfilter. Below this is a spectral plot showing intensity versus frequency (220-260 GHz) with various molecular lines labeled. The plot is divided into 10 channels, with channel 6 selected. Below the plot is a table of observations with columns for Project code, Source, Ra, Dec, Band, Cont. sens., Frequency support, Release date, Publications, Ang. res., Min. vel. res., Array, Mosaic, Max. reco. scale, FOV, Scientific category, and Science key.

Project code	Source	Ra	Dec	Band	Cont. sens.	Frequency support	Release date	Publications	Ang. res.	Min. vel. res.	Array	Mosaic	Max. reco. scale	FOV	Scientific category	Science key	
<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="checkbox"/>	2016.1.00164.S	M83	13:37:00.750	-29:51:58.000	6	0.04	224.18..241.80GHz	2018-03-25	2	1.72	4.84	12m	mosaic	15.93	50.54	Active galaxies	Starbursts, st
<input type="checkbox"/>	2016.1.00164.S	M83	13:37:00.750	-29:51:58.000	6	0.04	216.59..236.42GHz	2018-03-31	2	1.51	4.95	12m	mosaic	14.21	52.18	Active galaxies	Starbursts, st
<input type="checkbox"/>	2016.1.00164.S	M83	13:37:00.750	-29:51:58.000	6	0.05	243.07..262.94GHz	2018-05-24	2	2.06	4.45	12m	mosaic	19.60	46.61	Active galaxies	Starbursts, st

New: Quick Look Images and Spectra

Click on links for direct download of files

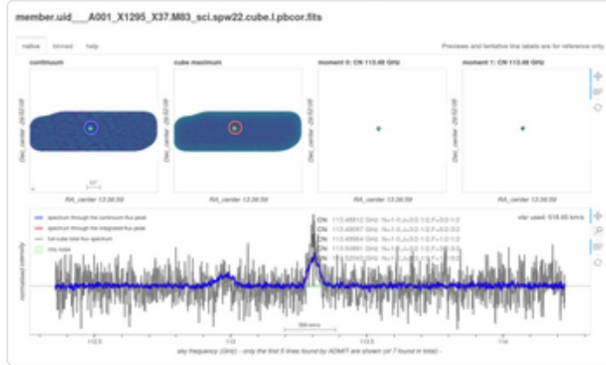


M83

ALMA

[README](#) [QA2 report](#) [weblog](#)

SPW 0: 112.29..114.29 GHz, 1128.91kHz, XX YY



member.uid__A001_X1295_X37.M83_sci.spw22.cube.l.pbcor.fits 568 MB

- line
- Band: 3
- Frequency range: 112.29..114.29 GHz
- Frequency resolution: 1128.91 kHz
- Continuum sensitivity (estimate): 2.71 mJy/beam@10km/s
- Line sensitivity 10km/s (estimate): 82.99 mJy/beam@10km/s
- Line sensitivity native (estimate): 3.61 uJy/beam@native
- Polarizations: XX YY
- Array: 7m

SPW 1: 113.81..115.79 GHz, 31250.00kHz, XX YY








member.uid__A001_X1295_X37.M83_sci.spw20.cube.l.pbcor.fits 35 MB




- continuum
- Band: 3




Observation




ALMA source name




 




  




  




  




  

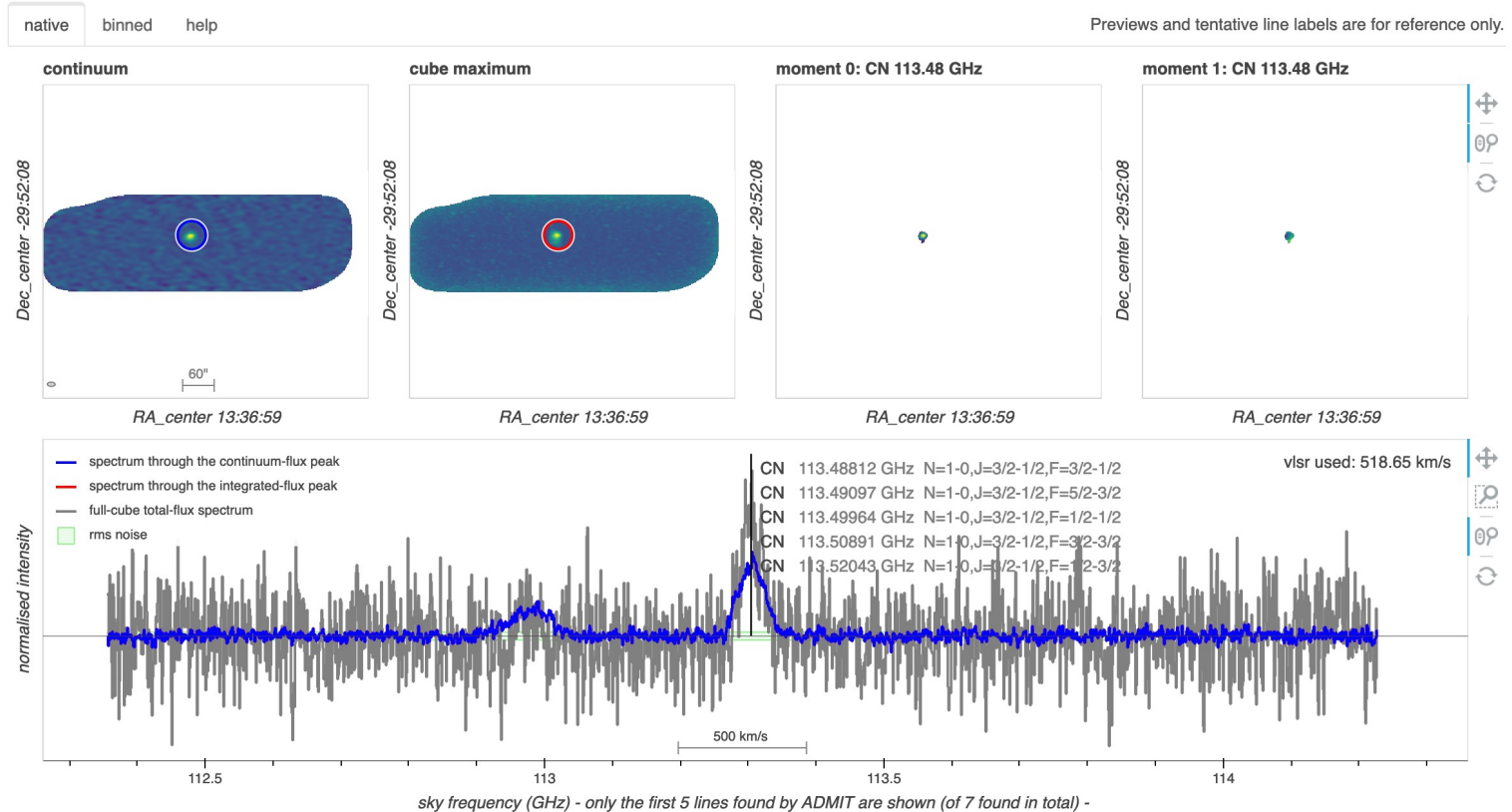
  

Hover over for quick look

New: Interactive Exploration

member.uid__A001_X1295_X37.M83_sci.spw22.cube.l.pbcor.fits







New: Generate List of Similar Projects

Displaying the 20 most similar projects. The similarity is computed by comparing the project titles and abstracts as well as the publication titles and abstracts with the project title and abstract of the current row.

Open projects in a new tab 

Projects

↑ Project Code	Title	Abstract
2013.1.00021.S 	NGC 4650A: the prototype Polar Ring Galaxy	Polar-ring galaxies (PRG) are a unique class of objects, tracing special episodes in the galaxy mass assembly: they can be formed through galaxy interaction and merging, but also through accretion from cosmic filaments. In addition they are highly interesting to study the dependencies of the star formation laws on surface density and metallicity, and determine 3D-shape of dark matter haloes. We propose to map in the CO(3-2) line at high resolution the polar ring of NGC4650A, the prototype of the class. The polar disk is the most recently assembled sub-system, very rich in gas and where new stars are formed. We will determine the gas distribution and the star formation efficiency, with possible thresholds. The high resolution kinematics of the molecular gas, predominant in the central parts, will precise with more accuracy the determination of the 3D-potential, already tackled through optical, near-infrared, and HI-21cm data. Through comparison with numerical models this will help to deduce the dark matter content and the halo 3D-shape.
2013.1.00446.S 	Characterizing the Atmosphere and Surface of Pluto	We will use the unmatched sensitivity of ALMA to make significant advances in understanding of Pluto's atmosphere and surface. The atmosphere exhibits sublimation-condensation exchanges with surface ices and active photochemistry, but is poorly characterized. Our goals: * Atmospheric CO detection, vastly improving determination of its abundance, with implications for the nature of surface-atmosphere interaction and constraining atmospheric temperature * Sensitive search for photochemically produced nitriles like HCN which play
  2016.1.01100.S	Pluto	19:11:42.568 -21:47:15.761 6 0.0248 250.02..270.01GHz 2018-10-

Hover over for similar projects and publications


Aside: CARTA (Cube Analysis and Rendering Tool for Astronomy)


- FITS pb-corrected (*.pbcor) images available to open in CARTA (web hosted)
- For quick exploration
 - For science, we recommend downloading the cube and using CARTA on your own computer

ALMA

[README](#) [QA2 report](#) [Weblog](#)

SPW 0: 100.009..101.883GHz, 1,128.906 kHz, XX YY

 [member.uid__A001_X1468_X10f.B2-West_sci.spw29.cube.l.pbcor.fits](#) 896 MB

 **Band:** 3

Frequency type: line

Frequency range: 100.009..101.883

Frequency resolution: 1,128.906 kHz



Continuum sensitivity: 0.091

Line sensitivity 10km/s (estimate): 3.179 mJy/beam@10km/s

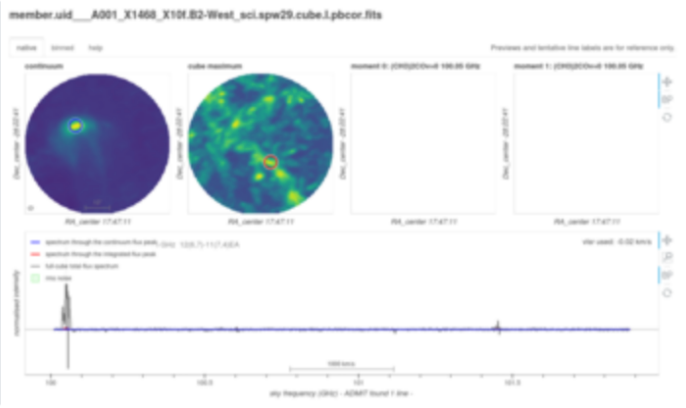
Line sensitivity native (estimate): 0.135 uJy/beam@native

Polarizations: XX YY

Array: 12m

Click to open image in CARTA

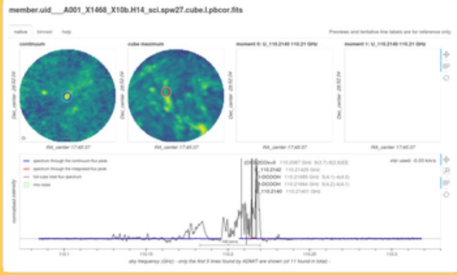

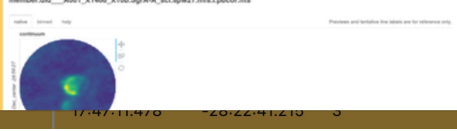


Find Data to Download

Search 1 column filter active Explore and download

Download 240 GB Open legal Request Handler Login

- Project (1)
- Group ObsUniSet (2)
- Member ObsUniSet (2)
- Source (25)
- Collection (1)
- Array (1)
- File type (8)
- File class (11)

Name	Actions
<input type="checkbox"/> <input checked="" type="checkbox"/> 2019.1.01240.S_uid_A001_X1468_X10b_auxiliary.tar	
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> member.uid_A001_X1468_X10b.H14_sci.spw27.cube.l.pbcor.fits	 <ul style="list-style-type: none"> Band: 3 Frequency range: 110.084..110.319 Frequency resolution: 141.113 kHz Line sens. (10km/s): 2.323mJy/beam Line sens. (native): 0.291uJy/beam Polarizations: XX YY Array: 12m
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> member.uid_A001_X1468_X10b.B2-East_sci.spw27.mfs.l.pbcor.fits	 <ul style="list-style-type: none"> Band: 3 Frequency range: 110.084..110.319 Frequency resolution: 141.113 kHz Line sens. (10km/s): 2.323mJy/beam Line sens. (native): 0.291uJy/beam Polarizations: XX YY Array: 12m
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> member.uid_A001_X1468_X10b.SgrA-A_sci.spw27.mfs.l.pbcor.fits	 <ul style="list-style-type: none"> Band: 3 Frequency range: 110.084..110.319 Frequency resolution: 141.113 kHz Line sens. (10km/s): 2.323mJy/beam Line sens. (native): 0.291uJy/beam

Find Data to Download

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	Name
Project (1)	<input type="checkbox"/> <input checked="" type="checkbox"/> 2019.1.01240.S_uid__A001_X1468_X10b_auxiliary.tar
Group ObsUniSet (2)	<input type="checkbox"/> <input checked="" type="checkbox"/> 2019.1.01240.S_uid__A002_Xe407cf_X6606.asdm.sdm.tar
	<input type="checkbox"/> <input checked="" type="checkbox"/> 2019.1.01240.S_uid__A001_X1468_X10b_001_of_001.tar
Member ObsUniSet (2)	<input type="checkbox"/> <input checked="" type="checkbox"/> 2019.1.01240.S_uid__A002_Xe2ada9_X162b2.asdm.sdm.tar
	<input type="checkbox"/> <input checked="" type="checkbox"/> 2019.1.01240.S_uid__A002_Xe2eefc_Xad67.asdm.sdm.tar
Source	<input type="checkbox"/> <input checked="" type="checkbox"/> 2019.1.01240.S_uid__A001_X1468_X10f_auxiliary.tar
	<input type="checkbox"/> <input checked="" type="checkbox"/> 2019.1.01240.S_uid__A002_Xe34c04_X6640.asdm.sdm.tar
Collection (1)	<input type="checkbox"/> <input checked="" type="checkbox"/> 2019.1.01240.S_uid__A002_Xe31981_Xb45a.asdm.sdm.tar
	<input type="checkbox"/> <input checked="" type="checkbox"/> 2019.1.01240.S_uid__A002_Xe34c04_X6354.asdm.sdm.tar
Array	<input type="checkbox"/> <input checked="" type="checkbox"/> 2019.1.01240.S_uid__A002_Xe37224_Xe7.asdm.sdm.tar
	<input type="checkbox"/> <input checked="" type="checkbox"/> 2019.1.01240.S_uid__A002_Xe2eefc_X12c9c.asdm.sdm.tar
File type (8)	<input type="checkbox"/> <input checked="" type="checkbox"/> 2019.1.01240.S_uid__A001_X1468_X10f_001_of_001.tar

File type filter: application/tar (12)

- application/x-gzip (1339)
- image/x-fits (879)
- text/plain (22)
- application/tar (12)

Find Data to Download

Search 1 column filter active Explore and download

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- Project (1)
- Group ObsUniSet (2)
- Member ObsUniSet (2)
- Source (25)
- Collection (1)
- Array (1)
- File type (8)
- File class (11)

Name	Band	Frequency range	Frequency resolution	Line sens. (10km/s)	Line sens. (native)	Polarizations	Array
2019.1.01240.S_uid_A001_X1468_X10b_auxiliary.tar							
member.uid_A001_X1468_X10b.H14_sci.spw27.cube.l.pbcor.fits	Band: 3	Frequency range: 110.084..110.319	Frequency resolution: 141.113 kHz	Line sens. (10km/s): 2.323mJy/beam	Line sens. (native): 0.291uJy/beam	Polarizations: XX YY	Array: 12m
member.uid_A001_X1468_X10b.B2-East_sci.spw27.mfs.l.pbcor.fits	Band: 3	Frequency range: 110.084..110.319	Frequency resolution: 141.113 kHz	Line sens. (10km/s): 2.323mJy/beam	Line sens. (native): 0.291uJy/beam	Polarizations: XX YY	Array: 12m
member.uid_A001_X1468_X10b.SgrA-A_sci.spw27.mfs.l.pbcor.fits	Band: 3	Frequency range: 110.084..110.319	Frequency resolution: 141.113 kHz	Line sens. (10km/s): 2.323mJy/beam	Line sens. (native): 0.291uJy/beam		

Select Files to Download

- Cycle 1+ files can be downloaded individually
 - Download auxiliary and raw tar files to restore calibrated data and work with visibilities
 - Download the products for just Fits files
 - Expand “product” to see link to open fits files in CARTA¹

readme
 product
 auxiliary
 raw
 raw (semipass)
 external

Project / OUSet / Executionblock	Updated	File	Size	Accessible
Request 1655767423844			5 GB	
Project 2016.1.00164.S				
Science Goal OUS uid://A001/X87a/X9fa				
Group OUS uid://A001/X87a/X9fb				
Member OUS uid://A001/X87a/X9fc	2020-07-20			
SB M83_a_06_TM1				
<input checked="" type="checkbox"/> readme		member.uid_A001_X87a_X9fc.README.txt	18 kB	✓
<input checked="" type="checkbox"/> product		2016.1.00164.S_uid_A001_X87a_X9fc_001_of_001.tar	4 GB	✓
<input checked="" type="checkbox"/> auxiliary		2016.1.00164.S_uid_A001_X87a_X9fc_auxiliary.tar	201 MB	✓
<input type="checkbox"/> raw		2016.1.00164.S_uid_A002_Xbcd3c_X13fb.asdm.sdm.tar	30 GB	✓
Member OUS uid://A001/X87a/X9fe	2019-06-10			
SB M83_a_06_7M				
<input checked="" type="checkbox"/> readme		member.uid_A001_X87a_X9fe.README.txt	4 kB	✓
<input checked="" type="checkbox"/> product		2016.1.00164.S_uid_A001_X87a_X9fe_001_of_001.tar	325 MB	✓
<input checked="" type="checkbox"/> auxiliary		2016.1.00164.S_uid_A001_X87a_X9fe_auxiliary.tar	235 MB	✓
<input type="checkbox"/> raw		2016.1.00164.S_uid_A002_Xb8e961_X4eea.asdm.sdm.tar	1 GB	✓
<input type="checkbox"/> raw		2016.1.00164.S_uid_A002_Xbb44e1_X192b.asdm.sdm.tar	1 GB	✓
<input type="checkbox"/> raw		2016.1.00164.S_uid_A002_Xbc19b1_X35d9.asdm.sdm.tar	2 GB	✓
<input type="checkbox"/> raw		2016.1.00164.S_uid_A002_Xbc4a22_X1f16.asdm.sdm.tar	1 GB	✓

QA2 Data Products Package:

Some Cycle 0 and 1 Packages

readme
 product
 auxiliary
 raw
 raw (semipass)
 external

Project / OUSet / Executionblock	File
Request 1647190514457	
Project 2016.1.00484.L	
Science Goal OUS uid://A001/Xbd4641/X1e	
Group OUS uid://A001/Xbd4641/X1f	
Member OUS uid://A001/Xbd4641/X20	
SB GW_Lup_a_06_TM1	
<input checked="" type="checkbox"/> product	2016.1.00484.L_uid_A001_Xbd4641_X20_001_of_001
<input type="checkbox"/> raw	2016.1.00484.L_uid_A002_Xc04da7_Xea.asdm.sdm
<input type="checkbox"/> raw	2016.1.00484.L_uid_A002_Xc067f7_Xa6d.asdm.sdm

Raw data tar balls.

Tar ball with the processed data.

QA2 Data Products Package: Directory Structure

After un-tarring the processed data we have a directory tree:

Science
goal

```
2016.1.00164.S ← Project code
├── science_goal.uid__A001_X87a_X9fa
│   ├── group.uid__A001_X87a_X9fb
│   │   └── member.uid  A001_X87a_X9fe
```

Group OUS:
combination of
member OUS's

```
├── calibration
├── log
├── product
├── qa
└── script
```

Data delivery products...

Member OUS: may
contain 12-m array,
ALMA Compact Array
(ACA), or Total Power
observation

QA2 Data Products Package:

Cycles 5-Present

▼	Group OUS uid://A001/X885/X19a	
▼	Member OUS uid://A001/X885/X19b	
▶	SB Pluto_a_06_TM1	
▶	<input checked="" type="checkbox"/> product	2016.1.01100.S uid A001 X885 X19b 001 of 001.tar
▼	<input checked="" type="checkbox"/> auxiliary	2016.1.01100.S uid A001 X885 X19b auxiliary.tar
	<input type="checkbox"/> auxiliary	member.uid A001 X885 X19b.PPR uid A001 X885 X19c.xml.tar
	<input type="checkbox"/> auxiliary	member.uid A001 X885 X19b.README.txt.tar
	<input type="checkbox"/> auxiliary	member.uid A001 X885 X19b.antennapos.csv.tar
	<input type="checkbox"/> auxiliary	member.uid A001 X885 X19b.calimage.pipeline_manifest.xml.tar
	<input type="checkbox"/> auxiliary	member.uid A001 X885 X19b.calimage.product_rename.txt.tar
	<input type="checkbox"/> auxiliary	member.uid A001 X885 X19b.casa_commands.log.tar
	<input type="checkbox"/> auxiliary	member.uid A001 X885 X19b.casa_piperestorescript.py.tar
	<input type="checkbox"/> auxiliary	member.uid A001 X885 X19b.casa_pipescript.py.tar
	<input type="checkbox"/> auxiliary	member.uid A001 X885 X19b.cont.dat.tar
	<input type="checkbox"/> auxiliary	member.uid A001 X885 X19b.flux.csv.tar
	<input type="checkbox"/> auxiliary	member.uid A001 X885 X19b.scriptForPI.py.tar
	<input type="checkbox"/> auxiliary	member.uid A001 X885 X19b.session_3.caltables.tgz.tar
	<input type="checkbox"/> auxiliary	member.uid A001 X885 X19b.weblog.tgz.tar
	<input type="checkbox"/> auxiliary	uid A002 Xc4d618 X5750.ms.calapply.txt.tar
	<input type="checkbox"/> auxiliary	uid A002 Xc4d618 X5750.ms.flagversions.tgz.tar
	<input type="checkbox"/> auxiliary	uid A002 Xc4d618 X5750_flagtargetstemplate.txt.tar
	<input type="checkbox"/> raw	2016.1.01100.S uid A002 Xc4d618 X5750.asdm.sdm.tar

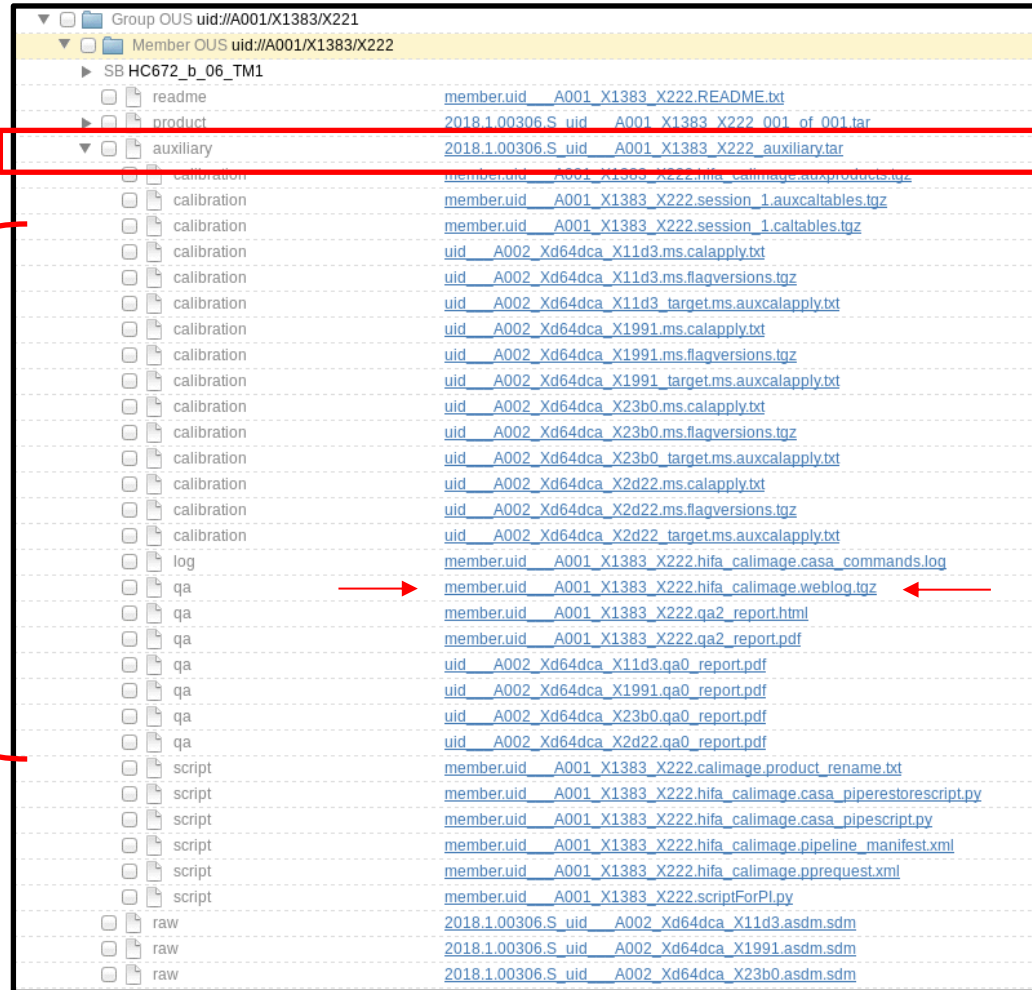
QA2 Data Products Package:

Cycles 4-Present: Auxiliary Tarball

Tar ball

OR

Individual
file
download



Group OUS uid://A001/X1383/X221

- Member OUS uid://A001/X1383/X222
 - SB HC672_b_06_TM1
 - readme [member.uid_A001_X1383_X222.README.txt](#)
 - product [2018.1.00306.S_uid_A001_X1383_X222_001_of_001.tar](#)
 - auxiliary [2018.1.00306.S_uid_A001_X1383_X222_auxiliary.tar](#)
 - calibration [member.uid_A001_X1383_X222.hifa_calimage_auxproducts.tgz](#)
 - calibration [member.uid_A001_X1383_X222.session_1_auxcaltables.tgz](#)
 - calibration [member.uid_A001_X1383_X222.session_1_caltables.tgz](#)
 - calibration [uid_A002_Xd64dca_X11d3.ms.calapply.txt](#)
 - calibration [uid_A002_Xd64dca_X11d3.ms.flagversions.tgz](#)
 - calibration [uid_A002_Xd64dca_X11d3_target.ms.auxcalapply.txt](#)
 - calibration [uid_A002_Xd64dca_X1991.ms.calapply.txt](#)
 - calibration [uid_A002_Xd64dca_X1991.ms.flagversions.tgz](#)
 - calibration [uid_A002_Xd64dca_X1991_target.ms.auxcalapply.txt](#)
 - calibration [uid_A002_Xd64dca_X23b0.ms.calapply.txt](#)
 - calibration [uid_A002_Xd64dca_X23b0.ms.flagversions.tgz](#)
 - calibration [uid_A002_Xd64dca_X23b0_target.ms.auxcalapply.txt](#)
 - calibration [uid_A002_Xd64dca_X2d22.ms.calapply.txt](#)
 - calibration [uid_A002_Xd64dca_X2d22.ms.flagversions.tgz](#)
 - calibration [uid_A002_Xd64dca_X2d22_target.ms.auxcalapply.txt](#)
 - log [member.uid_A001_X1383_X222.hifa_calimage.casa_commands.log](#)
 - qa [member.uid_A001_X1383_X222.hifa_calimage.weblog.tgz](#)
 - qa [member.uid_A001_X1383_X222.qa2_report.html](#)
 - qa [member.uid_A001_X1383_X222.qa2_report.pdf](#)
 - qa [uid_A002_Xd64dca_X11d3.qa0_report.pdf](#)
 - qa [uid_A002_Xd64dca_X1991.qa0_report.pdf](#)
 - qa [uid_A002_Xd64dca_X23b0.qa0_report.pdf](#)
 - qa [uid_A002_Xd64dca_X2d22.qa0_report.pdf](#)
 - script [member.uid_A001_X1383_X222.calimage.product_rename.txt](#)
 - script [member.uid_A001_X1383_X222.hifa_calimage.casa_piperestorescript.py](#)
 - script [member.uid_A001_X1383_X222.hifa_calimage.casa_pipescript.py](#)
 - script [member.uid_A001_X1383_X222.hifa_calimage.pipeline_manifest.xml](#)
 - script [member.uid_A001_X1383_X222.hifa_calimage.pprequest.xml](#)
 - script [member.uid_A001_X1383_X222.scriptForPI.py](#)
 - raw [2018.1.00306.S_uid_A002_Xd64dca_X11d3.asdm.sdm](#)
 - raw [2018.1.00306.S_uid_A002_Xd64dca_X1991.asdm.sdm](#)
 - raw [2018.1.00306.S_uid_A002_Xd64dca_X23b0.asdm.sdm](#)

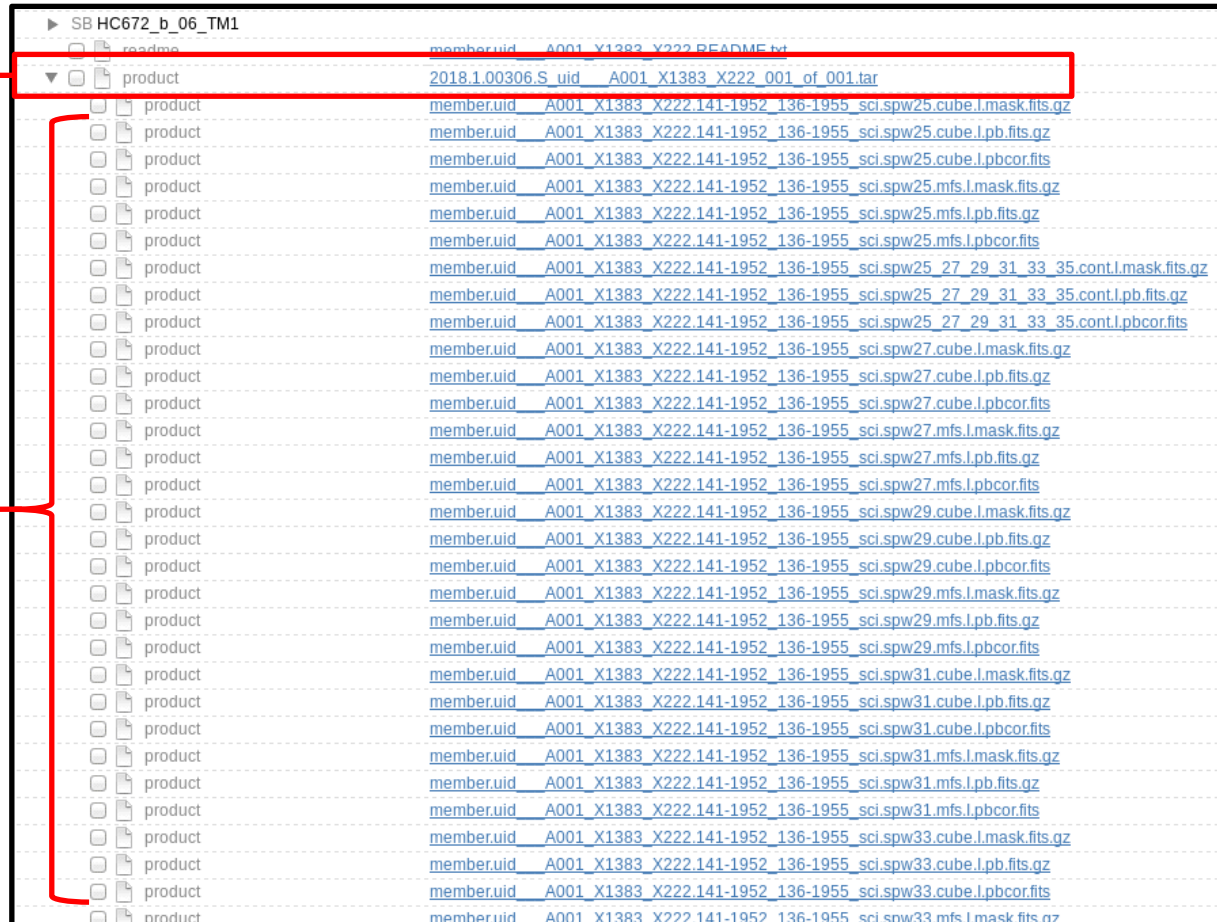
QA2 Data Products Package:

Cycles 5-Present: Product Tarball

Tar ball

OR

Individual file download



File Name	File Type
readme	member.uid_A001_X1383_X222_README.txt
product	2018_1_00306.S_uid_A001_X1383_X222_001_of_001.tar
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw25.cube.l.mask.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw25.cube.l.pb.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw25.cube.l.pbcor.fits
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw25.mfs.l.mask.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw25.mfs.l.pb.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw25.mfs.l.pbcor.fits
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw25_27_29_31_33_35.cont.l.mask.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw25_27_29_31_33_35.cont.l.pb.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw25_27_29_31_33_35.cont.l.pbcor.fits
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw27.cube.l.mask.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw27.cube.l.pb.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw27.cube.l.pbcor.fits
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw27.mfs.l.mask.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw27.mfs.l.pb.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw27.mfs.l.pbcor.fits
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw29.cube.l.mask.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw29.cube.l.pb.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw29.cube.l.pbcor.fits
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw29.mfs.l.mask.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw29.mfs.l.pb.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw29.mfs.l.pbcor.fits
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw31.cube.l.mask.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw31.cube.l.pb.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw31.cube.l.pbcor.fits
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw31.mfs.l.mask.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw31.mfs.l.pb.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw31.mfs.l.pbcor.fits
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw33.cube.l.mask.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw33.cube.l.pb.fits.gz
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw33.cube.l.pbcor.fits
product	member.uid_A001_X1383_X222.141-1952_136-1955_sci.spw33.mfs.l.mask.fits.gz

Select the Download Method

- Download Script or File List
 - If you have errors, run the script again and it will resume
 - Combine File List with DownThemAll browser extension
 - File a Helpdesk ticket if problems persist!

readme product auxiliary raw raw (semipass) external

Project / OUSet / Executionblock

File	Size	Accessible	Actions
Request 1653788361405	4 GiB		
Project 2016.1.00164.S			
Science Goal OUS uid://A001/X87a/X9fa			
Group OUS uid://A001/X87a/X9fb			
Member OUS uid://A001/X87a/X9fc			
SB M83_a_06_TM1			
<input checked="" type="checkbox"/> readme	member.uid A001		
<input checked="" type="checkbox"/> product	2016.1.00164.S. u	18 KiB	✓
<input checked="" type="checkbox"/> auxiliary	2016.1.00164.S. u	4 GiB	✓
<input type="checkbox"/> raw	2016.1.00164.S. u	192 MiB	✓
Member OUS uid://A001/X87a/X9fe			
SB M83_a_06_7M			
<input checked="" type="checkbox"/> readme	member.uid A001	28 GiB	✓
<input checked="" type="checkbox"/> product	2016.1.00164.S. u	3 KiB	✓
<input checked="" type="checkbox"/> auxiliary	2016.1.00164.S. u	310 MiB	✓
<input type="checkbox"/> raw	2016.1.00164.S. u	224 MiB	✓
<input type="checkbox"/> raw	2016.1.00164.S. u	1 GiB	✓
<input type="checkbox"/> raw	2016.1.00164.S. u	1 GiB	✓
<input type="checkbox"/> raw	2016.1.00164.S. uid A002_Xbc4a22_X1f16.asdm.sdm.tar	1 GiB	✓

Choose one of the following download methods:

- Download Script**
The downloads are scripted for you. You just need to execute the script from the command line, after making it executable by typing `chmod u+x download*.sh`
- Java Download Manager**
ALMA's download manager had to be discontinued due to changes in java. Please use one of the other options instead.
- File List**
View a text file containing a list of URLs. This is useful for using third-party download manager's such as *DownThemAll*.

Did you know?

- You can search for unpublished data by filtering on 0 Publications
- You can use astroquery¹ to programmatically search for and download data

Goals of Quality Assurance (QA) Process

- Ensure reliable final data product
 - Desired sensitivity (as specified by PI)
 - Desired resolution (as specified by PI)
- Ensure calibration and QA imaging free from major artifacts
- Warning: Errors in PI-supplied parameters are outside scope of QA process, including:
 - Incorrect source coordinates
 - Inadequate frequency specification
 - Inadequate sensitivity limits

See [ALMA Technical Handbook](#) for details.

During Observations – QA0

- Monitoring of on-the-fly calibration and system performance
- Rapidly-varying parameters (~SB/EB timescales)
 - Atmospheric effects
 - Antenna issues
 - Front-end issues
 - Connectivity issues
 - Back-end issues
- Tolerances for each are explicitly laid out
 - No fewer than 34 antennas in 12m array
 - Bandpass calibrator is strong enough
- Quick reduction may be run to check flux measurements and phase stability

QA0 Report

QA0 Report

Project Code	2016.1.00164.S
Session	uid://A001/X87a/X9fe
SchedBlock	uid://A001/X87a/X9e2 (M83_a_06_7M)
ExecBlock	uid://A002/Xb8e961/X4eea ✔ Pass
Sources	Callisto, J12200203, J13512912, J14273305, J15172422, M83
# Antennas	10 (90.0 % for Cycle 4)
Array	7 [m]
Baselines	8m -- 48m
Band	ALMA_RB_06
Weather	null
Atmosphere	Tsys (Min/Avg/Max) : 78.6/84.9/96.9 Trec (Min/Avg/Max) : 29.4/41.6/56.6

Final QA0 comment

```

=== QA0 summary for id__A002_Xb8e961_X4eea ===
| Usable antennas: 9
| Phase rms (Antenna,phaseCal): 5.9 deg (=21.1um)
| Baseline limit with good phase: 5078m. Longest baselines (80%): 34m.
| No online WVR-corrected data available: assuming correction factor of 1.0 in above
| Bandpass cal: J1517-2422 flux: 3.25 Jy
| Phase cal: J1351-2912 flux: 0.201 +/- 0.004 Jy
| Number of cycles of science/phaseCal: 8
| Band observed: 6 Highest recommended: 10-10 based only on phase rms
| QA0 PASS
| no significant problems
== == == == == == == == == == == == == == == ==

```

Between Observations – QA I

- “Regular array maintenance” timescales
- Slowly Varying Parameters (~MOUS timescales)
- General array calibration
 - Baseline measurements
 - Delays
- Antenna Calibrations
 - All-sky pointing
 - Focus curves
 - Beam patterns, etc.
- Observatory Calibrator Surveys
 - Solar-system and quasar flux monitoring

After Observations – QA2

- Calibration by pipeline (~90%) or DA/staff.
- Final QA checks include
 - RMS of complex antenna-based gains
 - Absolute flux calibration scale
 - T_{sys} within acceptable range
 - Proper phase transfer cadence
 - Proper bandpass corrections
- Assessment of Imaging Products
 - Signal-to-noise and angular resolution
 - No strong artifacts
 - Performed on the reference source/spectra
- Information about QA review is aggregated for delivery in the QA2 Report

The QA2 Report:

QA2 Report



Project information

Name	Chemical Diagnostics of Extragalactic ISM: Shock-Induced Evolution in M83 Nucleus
Code	2016.1.00164.S
PI	Nanase Harada
Organization	Institute of Astronomy and Astrophysics, Academia Sinica
Co-Is	S. Aalto, R. Aladro, F. Costagliola, S. Martin, D. Riquelme, K. Sakamoto, Y. Watanabe

ObsUnitSet information

Name	Member OUS (M83)
QA2 Status	✔ Pass
Member OUS Status ID	uid://A001/X87a/X9fe
SchedBlock name	M83_a_06_7M
SchedBlock UID	uid://A001/X87a/X9e2
Array	7M
Mode	Standard
Band	ALMA_RB_06
Repr.Freq. (sky)	217.12 [GHz]
Spectral setup	ACA
Sources	M83
Other SBs in this Group	
OUS (Member OUS Status ID in brackets):	M83_a_06_TM1 (uid://A001/X87a/X9fc)
Execution count	4.00 of 4 expected

Final QA2 comment

Comments from Reducer

CASA version: 5.4.0-70, Pipeline:42254M (Pipeline-CASA54-P1-B)

Reduction mode: PL calibration and imaging

Calibration issues: None.

Imaging issues:

This SB has been reprocessed with CASA 5.4.0 due to the issues in previous versions of CASA described at the following links:

See the "Imaging" section at: <https://casa.nrao.edu/casadocs/casa-5.4.0> <<https://casa.nrao.edu/casadocs/casa-5.4.0>>

After Delivery – QA3

- Additional QA stage possibly triggered by PI reporting any issues underlying:
 - Data, observing procedure, calibration
- Re-evaluation of calibrated data products
 - Only occurs if QA0 → QA2 miss something
- Likely results in fix being implemented and products re-ingested into ALMA archive
- Reported within 2 months of delivery
 - Full 12 month proprietary extension after fix delivered
- Reported more than 2 months after delivery
 - Remaining proprietary period extended after fix delivered

Data Delivered Problem Reported 5 months later Fix Delivered New End of Proprietary Period 7 months after Fix Delivered



Open the Weblog

- Run the command:

```
tar -xvzf member.uid__A001_X87a_X9fe.hifa_calimage.weblog.tgz
```

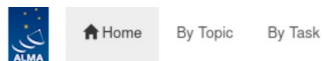
- Open pipeline-20190312T041124/html/index.html using one of the methods in <https://help.almascience.org/kb/articles/what-is-the-best-way-to-view-the-weblog>
- Recommended method is h_weblog in the pipeline version of CASA

The Wonderous Weblog!

Your guide to QA2



See Pipeline Users Guide, Chapter 8 for more information.



Embedded documentation link

2016.1.00314.S

Observation Overview

Project	uid://A001/X5ac/X1d1
Principal Investigator	bronfman
OUS Status Entity id	uid://A001/X87d/X62e
Observation Start	2018-04-11 06:05:40 UTC
Observation End	2018-04-11 06:59:32 UTC

Pipeline Summary

Pipeline Version	2021.2.0.128 (documentation)
CASA Version	6.2.1.7 (environment)
IERSseop2000 Version	0001.0150 (last date: 2021-06-27 00:00:00)
IERSpredict Version	0623.0565 (last date: 2021-11-27 00:00:00)
Pipeline Start	2021-09-01 17:55:52 UTC
Execution Duration	11:41:31

Click EB for information on the observation

Observation Summary

Measurement Set	Receivers	Num Antennas	Time (UTC)			Baseline Length			Size
			Start	End	On Target	Min	Max	RMS	
Observing Unit Set Status: uid://A001/X87d/X62e Scheduling Block ID: uid://A001/X87d/X618									
Session: session_2									
uid__A002_Xcbb2a_X10512.ms	ALMA Band 6	45	2018-04-11 06:05:40	2018-04-11 06:59:32	0:28:28	15.1 m	483.9 m	166.7 m	39.5 GB
uid__A002_Xcbb2a_X10512_target.ms	ALMA Band 6	45	2018-04-11 06:22:33	2018-04-11 06:58:16	0:28:25	15.1 m	483.9 m	166.7 m	25.4 GB



The Wonderful Weblog!



Pipeline Users Guide, Chapter 8 for more information.



Click By Task for breakdown of pipeline tasks

2016.1.00164.S

Session: session_1
uid__A002_Xb8e961_X4eea.ms
uid__A002_Xb8e961_X4eea_target.ms

Session: session_2
uid__A002_Xbb44e1_X192b.ms
uid__A002_Xbb44e1_X192b_target.ms

Session: session_3
uid__A002_Xbc19b1_X35d9.ms
uid__A002_Xbc19b1_X35d9_target.ms

Session: session_4
uid__A002_Xbc4a22_X1f16.ms
uid__A002_Xbc4a22_X1f16_target.ms

Overview of 'uid__A002_Xb8e961_X4eea.ms'

Observation Execution Time

Start Time	2016-10-02 17:31:39
End Time	2016-10-02 19:09:44
Total Time on Source	1:28:09
Total Time on Science Target	0:49:10

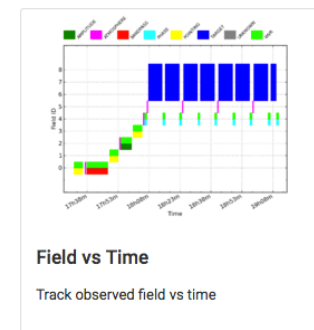
LISTOBS OUTPUT

Spatial Setup

Science Targets	'M83'
Calibrators	'Callisto', 'J1220+0203', 'J1351-2912', 'J1427-3305' and 'J1517-2422'

Antenna Setup

Min Baseline	8.9 m
Max Baseline	48.9 m
Number of Baselines	36
Number of Antennas	9



Spectral Setup

All Bands	'ALMA Band 6'
Science Bands	'ALMA Band 6'

Sky Setup

Min Elevation	54.39 degrees
Max Elevation	80.88 degrees



The Wonderful Weblog!



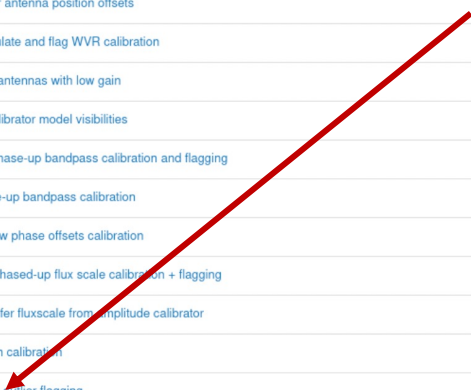
Pipeline Users Guide, Chapter 8 for more information.

Home By Topic By Task 2016.1.00314.S

Task Summaries

Task	QA Score	Duration
1. hifa_importdata : Register measurement sets with the pipeline	1.00	0:08:20
2. hifa_flagdata : ALMA deterministic flagging	1.00	0:38:12
3. hifa_fluxcallflag : Flag spectral features in solar system flux calibrators	1.00	0:00:02
4. hif_rawflagchans : Flag channels in raw data	1.00	0:05:04
5. hif_refant : Select reference antennas	1.00	0:00:21
6. h_tsyscal : Calculate Tsys calibration	1.00	0:06:28
7. hifa_tsysflag : Flag Tsys calibration	1.00	0:07:52
8. hifa_antpos : Correct for antenna position offsets	Nonzero antenna position offsets 0.90	0:00:06
9. hifa_wvrgcallflag : Calculate and flag WVR calibration	1.00	0:13:32
10. hif_lowgainflag : Flag antennas with low gain	1.00	0:09:22
11. hif_setmodels : Set calibrator model visibilities	1.00	0:14:18
12. hifa_bandpassflag : Phase-up bandpass calibration and flagging	0.96	0:24:33
13. hifa_bandpass : Phase-up bandpass calibration	1.00	0:21:47
14. hifa_spwphaseup : Spw phase offsets calibration	1.00	0:01:41
15. hifa_gfluxscaleflag : Phased-up flux scale calibration + flagging	1.00	0:18:05
16. hifa_gfluxscale : Transfer fluxscale from amplitude calibrator	1.00	0:17:46
17. hifa_timegaincal : Gain calibration	1.00	0:34:52
18. hifa_targetflag : Target outlier flagging	1.00	0:19:49
19. hif_applycal : Apply calibrations from content	1.00	1:04:14

Click on a pipeline task for detailed information and plots



The Wonderful Weblog!



Pipeline Users Guide, Chapter 8 for more information.

RCW120 (TARGET)	19 / X642486343#ALMA_RB_06#BB_2#SW-01	25 / X642486343#ALMA_RB_06#BB_1#SW-01	27 / X642486343#ALMA_RB_06#BB_3#SW-01	29 / X642486343#ALMA_RB_06#BB_4#SW-01
	View other QA images...	View other QA images...	View other QA images...	View other QA images...
centre / rest frequency of cube	215.5009GHz / 215.5000GHz (LSRK)	217.1137GHz / 217.1050GHz (LSRK)	229.3569GHz / 229.3476GHz (LSRK)	231.3311GHz / 231.3218GHz (LSRK)
beam	0.776 x 0.706 arcsec	0.778 x 0.720 arcsec	0.737 x 0.685 arcsec	0.728 x 0.680 arcsec
beam p.a.	61.5deg	62.4deg	59.3deg	61.3deg
final theoretical sensitivity	0.37 mJy/beam	4.2 mJy/beam	4.4 mJy/beam	5.2 mJy/beam
cleaning threshold	3.6 mJy/beam Dirty DR: 7.3e+02 DR correction: 4.8	17 mJy/beam Dirty DR: 71 DR correction: 2	18 mJy/beam Dirty DR: 86 DR correction: 2	26 mJy/beam Dirty DR: 1.5e+02 DR correction: 2.5
clean residual peak / scaled MAD	-15.92	7.93	6.38	-9.48
non-pbcor image RMS / RMS_{min} / RMS_{max}	0.28 / 0.19 / 0.31 mJy/beam	3.9 / 3.7 / 4.2 mJy/beam	4.1 / 3.9 / 4.4 mJy/beam	4.5 / 4.1 / 6 mJy/beam
pbcor image max / min	279 / -21.9 mJy/beam	331 / -78.4 mJy/beam	386 / -73.7 mJy/beam	779 / -105 mJy/beam
channels	115 x 15.6236MHz (LSRK)	1916 x 0.1221MHz (LSRK)	1916 x 0.1221MHz (LSRK)	1916 x 0.1221MHz (LSRK)
score	0.65	1.00	1.00	1.00
image file	uid___A001_X87d_X62e.s38_0.RCW120_sci.spw19.cube.l.iter1.image	uid___A001_X87d_X62e.s38_0.RCW120_sci.spw25.cube.l.iter1.image	uid___A001_X87d_X62e.s38_0.RCW120_sci.spw27.cube.l.iter1.image	uid___A001_X87d_X62e.s38_0.RCW120_sci.spw29.cube.l.iter1.image

Moment 8 maps shown for cubes: Click on “View other QA images...” for the dirty image, mask, PSF, spectrum and other diagnostic images.



The Wonderful Weblog!



Pipeline Users Guide, Chapter 8 for more information.

The screenshot displays the ALMA pipeline web interface. On the left, a list of tasks in execution order is shown, with 'hif_setmodels' selected. The main content area shows the details for task 38, 'Tclean/Makemages', with a 'Make target' section. A central window displays a data visualization of a radio telescope image. The image is a circular field with a color scale from 0.01 to 0.03 Jy/beam. A small yellow and red spot is visible at the center. The axes are labeled 'Right Ascension (arcsec)' and 'Declination (arcsec)'. A reference position is provided: Right Ascension: 11:09:59.94020000, Declination: -76:34:57.98000000, Stokes: I, Frequency: 2.2470990e+11 Hz. A tooltip above the image shows the command: `type:image display:peak line int. (mom8) field:WW_Cha virtspw:25 iter:1`. A red arrow points to a 'Show tclean command' button in the top right corner of the interface.



Click on the image to view more information and show tclean commands

The Wonderful Weblog!



Pipeline Users Guide, Chapter 8 for more information.

A screenshot of a web browser displaying the ALMA pipeline interface. A modal dialog box titled "Tclean Command" is open, showing a long line of command-line parameters for the tclean task. The background is dimmed, showing a dark interface with a central image area and a command input field at the top. The dialog box has a close button in the bottom right corner.

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type:image display:peak line int. (mom8) field:WW_Cha virtspw:25 iter:1

Tclean Command

```
tclean(vis=['uid___A002_Xf3fea6_X52f5_target.ms'], field='WW_Cha', spw=['25'], antenna=[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42&'], scan=['8,10,12,16,18,20,24,26,28'], intent='OBSERVE_TARGET#ON_SOURCE', datacolumn='corrected', imagename='uid___A001_X1590_Xbcb.s38_0.WW_Cha_sci.spw25.cube.l.iter1', imsize=[900, 900], cell=['0.048arcsec'], phasecenter='ICRS 11:09:59.9402 -076.34.57.980', stokes='I', specmode='cube', nchan=958, start='224.6514805086GHz', width='0.1220797MHz', outframe='LSRK', perchanweightdensity=True, gridded='standard', mosweight=False, usepointing=False, pblimit=0.2, deconvolver='hogbom', restoration=True, restoringbeam='common', pbcor=True, weighting='briggsbwtaper', robust=0.5, npixels=0, niter=2000000, threshold='0.00563Jy', nsigma=0.0, interactive=0, usemask='auto-multithresh', sidelobethreshold=2.5, noisethreshold=5.0, lownoisethreshold=1.5, negativethreshold=7.0, minbeamfrac=0.3, growiterations=50, dogrowprune=True, minpercentchange=1.0, fastnoise=True, restart=True, savemodel='none', calcres=False, calcpfs=False, parallel=False)
```

CLOSE

Iteration: 1
Spw: 25
Field: WW_Cha (TARGET)



Click on the image to view more information and show tclean commands

Pipeline & Weblog Information

- See <https://almascience.nrao.edu/processing/science-pipeline> for Pipeline User's Guide, Reference Manual, and Known Issues
- Table also includes tarballs for past and current pipeline versions

Monitor Project Status: SnooPI

<https://asa.alma.cl/snoopi>


SnooPI

NAVIGATION

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QUICK LINKS


- User Manual
- Science Portal
- Archive Query
- Helpdesk



SnooPI


John Smith
Executive: EU; ARC: EU






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Delegee Scheduling Blocks

i Since 2015-07-02 More news...


- 2015-10-23 ObsUnitSet **Member OUS (w51)** of project **2013.1.00308.S** is now Delivered
- 2015-08-30 All data taken for Scheduling Block **w51_a_06_TE** of project **2013.1.00308.S**
- 2015-07-02 All data taken for Scheduling Block **SgrB2_a_03_TE** of project **2013.1.00269.S**

Q Search Projects or Scheduling Blocks

Projects ▾

Resources After Delivery

- HelpDesk: help.almascience.org
- Face to Face visits in Charlottesville– Now also virtual over Slack/Zoom: science.nrao.edu/facilities/alma/visitors-shortterm



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Data Reduction Visitors to the North American ALMA Science Center (NAASC)

by [Dong-Chan Kim](#) — last modified Jan 30, 2013

Data Reduction Visitors are ALMA users coming to NAASC for a week or less for expert assistance with obtaining the optimum results from their data.

Eligibility

We expect that the majority of short-term visitors to the NAASC will come for access to NAASC computing facilities, and for expert assistance with re-processing and analyzing their ALMA data, which is central to the successful interpretation of complex interferometric data sets. To meet this need, the NAASC runs a visitor program. In some cases short-term visits may be scheduled for assistance with the technical aspects of ALMA proposals or designing scheduling blocks (SBs). Scientists carrying out archival projects may also take advantage of the visitor program.



The NAASC will provide assistance to up to three visitors from each scheduled or observed project, though funds for travel are more restricted. An experienced investigator must accompany any student who is new to radio interferometry.



For more info:
<https://almascience.nrao.edu/>

ALMA is a partnership of ESO (representing its member states), NSF (USA) and NINS (Japan), together with NRC (Canada), MOST and ASIAA (Taiwan), and KASI (Republic of Korea), in cooperation with the Republic of Chile. ALMA construction and operations are led on behalf of Europe by ESO, on behalf of North America by the National Radio Astronomy Observatory (NRAO), which is managed by Associated Universities, Inc. (AUI), and on behalf of East Asia by the National Astronomical Observatory of Japan (NAOJ). The Joint ALMA Observatory (JAO) provides the unified leadership and management of the construction and operation of ALMA. The Joint ALMA Observatory is operated by ESO, AUI/NRAO and NAOJ.