

Using the ALMA Archive

- Public and proprietary data are available from the ALMA archive. Public data can be downloaded anonymously.

<https://almascience.nrao.edu/alma-data/archive>

- Data format

Data for a project is delivered to the PI in one or more discrete deliveries. Each delivery corresponds to a related set of observations, and has its own release date. Deliveries are usually split into multiple tar files, **all of which need to be downloaded and untarred in the same directory in order to produce the full data directory tree.**

The tar files of a delivery contain scripts and logs, calibration tables and representative images, as well as one or more README files.


Till date ALMA has observed and archived the following data

- **Science Verification (to be downloaded from a separate link)**
- **Cycle 0**
- **Cycle 1**
- **Cycle 2** – Observations are being carried out.
- **Cycle 3** – Call for proposals deadline 23rd April

Proprietary data is for **1 year (from release date)**, which means any data ***released*** before 1 year are available to all.

Archive: You can see the images before downloading the data (data files are huge!!)

<http://jvo.nao.ac.jp/portal/top-page.do>

[Top](#)[Search](#)[VO Services](#)[Subaru](#)[ALMA](#)[Analysis](#)[Bookmark](#)[JVOSpace](#)

→ Login

p00 ver.140908 [News](#) | [FAQ\(J\)](#) | [Help\(J\)](#) | [Bugs\(J\)](#) I am a guest

News

- JVO portal version 2 (trial version) is now available at portal-v2 (2014-09-08)
- Frequency search functionality was implemented to the ALMA Archive (2014-09-08)

Registration

- Read "about registration".

Service Contents [Help\(J\)](#)

Data Search

- Quick Search 🍃
- Single VO Service 🍃
- Multiple VO Services 🍃
- JVO Sky 🍃
- JVOQL Search

Subaru

- Suprime-Cam
- HDS
- MOIRCS

ALMA

- ALMA SV Data
- **ALMA Archive**

Surveys

- Subaru Deep Survey
- IRSF Survey

Service Search

- Keyword Search
- Category Search (Auto)
- Category Search (Manual)
- Advanced Search

JVO Space

- Home
- Work

Astro Tools

- Source Extractor
- HyperZ

Bookmark

- Bookmark of VOService
- Bookmark of JVOSpace



=> Location: Top Page > ALMA > ALMA Archive

ALMA Archive

Using the data for publication

The following statement should be included in the acknowledgment of papers using the ALMA datasets obtained from the JVO portal:

"This paper makes use of the following ALMA data: ADS/JAO.ALMA#<Project code>. ALMA is a partnership of ESO (representing its member states), the University of Chile, the Republic of Chile. The Joint ALMA Observatory is operated by ESO, AUI/NRAO and NAOJ."

You can find the project code (e.g. 2011.0.01234.S) on the dataset info page where you download the data.

Please also include the following sentence on the title page as a footnote to the title or in the acknowledgment of the paper.

"[Part of] the data are retrieved from the JVO portal (<http://jvo.nao.ac.jp/portal>) operated by the NAOJ"

Target Name **Project Code** **Coords** **Frequency** **Desktop Viewer**

Sort by: ☒ target ☐ coordinates [Update](#)

#	Target Name	Coords	# of Data
1	113083	10h00m48.054715 +02d01m06.64360	1
2	1374240	10h03m02.530788 +01d42m06.41200	1
3	2dFGRS_S833Z022	04h14m37.481616 -22d48m25.60079	2
4	2MASS_0444+2512	04h44m27.149158 +25d12m16.13999	3
5	2MASS_J04182147+1658470	04h18m21.516406 +16d58m46.33201	2
6	2MASS_J04242321+2650084	04h24m23.265230 +26d50m07.80961	2
7	2MASS_J04314503+2859081	04h31m45.089422 +28d59m07.52881	2
8	2MASS_J04403979+2519061	04h40m39.840674 +25d19m05.46121	2
9	2MASS_J04420548+2522562	04h42m05.533661 +25d22m55.64161	2
10	2MASS_J16124119-1924182	16h12m41.194848 -19d24m18.38621	1
11	2MASS_J16223757-2345508	16h22m37.582966 -23d45m50.93381	1
12	2MASS_J16251469-2456069	16h25m14.698044 -24d56m06.98381	1
13	2MASS_J16275209-2440503	16h27m52.095074 -24d40m50.43461	1
14	30 Doradus	05h38m47.434695 -69d04m42.31289	16
15	47 Tuc V1	00h24m12.723307 -72d06m40.06922	4
16	47 Tuc V2	00h24m18.601394 -72d07m59.16601	4
17	47 Tuc V3	00h25m15.003333 -72d03m54.00301	5

Find your target/ project/ coords etc and click on the name

=> Location: Top Page > ALMA > Archive > Target Info

ALMA Archive : Target Info

Target Name : NGC3256

Filter by Frequency

#	dataset id	ra/dec (J2000)	size (arcmin2)	band	freq. range (GHz)	data type	3rd axis	Cube size (XxYxF) ?	image resol (arcsec)	freq. resol (MHz)	obs date	original fits name
1	ALMA01001371	10h27m51.2-43d54m16	2.16x2.16	Band3	112.376 -- 112.502	intensity cube	velocity	432x432x17x1	0.30	7.388	2012-03-27	line_1_1660-1910.fits
2	ALMA01001372	10h27m51.2-43d54m16	2.16x2.16	Band3	112.376 -- 112.502	intensity cube	velocity	432x432x17x1	0.30	7.388	2012-03-27	calibrated.ms.image.line.source4.spw1.chans1660-1910.fits
3	ALMA01001373	10h27m51.2-43d54m16	2.16x2.16	Band3	114.106 -- 114.306	intensity cube	velocity	432x432x27x1	0.30	7.400	2012-03-27	NGC_cal_0_CO.fits
4	ALMA01001374	10h27m51.2-43d54m16	2.16x2.16	Band3	114.106 -- 114.306	intensity cube	velocity	432x432x27x1	0.30	7.400	2012-03-27	calibrated.ms.image.line.source4.spw0.chans2000-2400.fits
5	ALMA01001375	10h27m51.2-43d54m16	2.16x2.16	Band3	112.037 -- 112.177	intensity cube	velocity	432x432x19x1	0.30	7.368	2012-03-27	calibrated.ms.image.line.source4.spw1.chans970-1250.fits
6	ALMA01001376	10h27m51.2-43d54m16	2.16x2.16	Band3	112.037 -- 112.177	intensity cube	velocity	432x432x19x1	0.30	7.368	2012-03-27	line_1_970-1250.fits
7	ALMA01001475	10h27m51.2-43d54m16	0.45x0.45	Band7	353.163 -- 353.841	intensity cube	frequency	360x360x57x1	0.07	11.899	2012-06-04	N3256_b7_HCO+4-3_clean.image.fits
8	ALMA01001476	10h27m51.2-43d54m16	0.45x0.45	Band7	342.073 -- 343.088	intensity cube	frequency	360x360x88x1	0.07	11.534	2012-06-04	N3256_b7_CO_3-2_clean.image.fits
9	ALMA01001477	10h27m51.2-43d54m16	0.45x0.45	Band7	340.148 -- 355.650	intensity map	frequency	360x360x1x1	0.07	15,501.786	2012-05-21	N3256_b7_cont_smooth_clean.image.fits
10	ALMA01000372	10h27m51.2-43d54m16	1.33x1.33	Band3	113.959 -- 114.393	intensity cube	velocity	200x200x57x1	0.40	7.618	2011-12-29	NGC3256_B3_comp_CO_1-0_clean_cube.fits
11	ALMA01000373	10h27m51.2-43d54m16	1.33x1.33	Band3	114.305 -- 114.313	intensity map	frequency	200x200x1x1	0.40	7.690	2011-12-29	NGC3256_B3_comp_CO_1-0_clean_mom0.fits
12	ALMA01000374	10h27m51.2-43d54m17	1.40x1.40	Band3	99.562 -- 115.000	intensity map	frequency	200x200x1x1	0.42	15,437.000	2011-12-29	NGC3256_B3_comp_cont_smooth.ms_clean.fits
13	ALMA01000375	10h27m51.2-43d54m16	0.47x0.47	Band7	342.062 -- 343.067	intensity cube	velocity	200x200x88x1	0.14	11.428	2012-01-24	N3256_b7_CO_3-2_clean.image.fits
14	ALMA01000376	10h27m51.2-43d54m16	0.47x0.47	Band7	343.045 -- 343.057	intensity map	frequency	200x200x1x1	0.14	11.534	2012-01-24	N3256_B7_CO_3-2_comp_clean.image.mom0.fits
15	ALMA01000377	10h27m51.2-43d54m16	0.47x0.47	Band7	340.157 -- 355.659	intensity map	frequency	200x200x1x1	0.14	15,502.145	2012-01-24	N3256_b7_cont_smooth_clean.image.fits
16	ALMA01000378	10h27m51.2-43d54m16	0.47x0.47	Band7	353.245 -- 353.669	intensity cube	velocity	200x200x36x1	0.14	11.792	2012-01-24	N3256_b7_HCO_4-3_clean.image.fits
17	ALMA01000379	10h27m51.2-43d54m16	0.47x0.47	Band7	353.644 -- 353.656	intensity map	frequency	200x200x1x1	0.14	11.899	2012-01-24	N3256_B7_HCO_4-3_comp_clean.image.mom0.fits

More or less all relevant information about your data are there in the table.

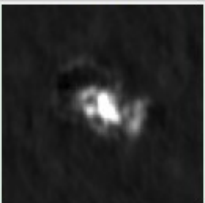

eg. to see the integrated intensity CO 1-0 line image, click on number 11.



ALMA Archive : Dataset Info

Summary Binning Data Desktop Viewer Using the data

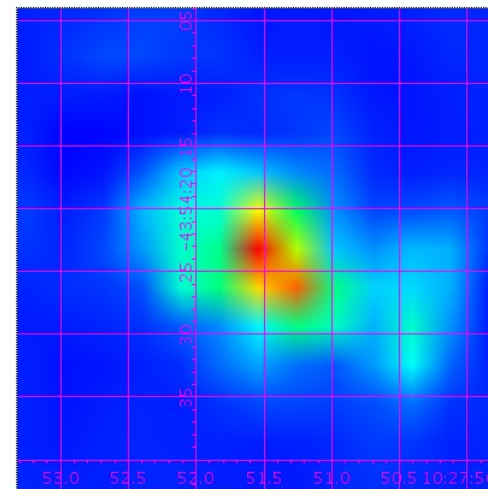
■ Target	NGC3256	■ Dataset ID	ALMA01000373
■ Coord. (RA/DEC J2000)	10h27m51.2-43d54m16	■ Date of Observations	2011-12-29
■ Image Size (arcmin2)	1.33x1.33	■ Image Resol. (arcsec)	0.40
■ Band Name	Band3	■ Data Type	intensity map
■ Freq. Range. (GHz)	114.305 -- 114.313	■ Spectrum Resol. (MHz)	7.690
■ Cube Pix ?	200x200x1x1	■ Original Filename	NGC3256_B3_comp_CO_1-0_clean_mom0.fits
■ 3rd(4th) Axis	frequency	■ Project Code	2011.0.00525.S

data id	image	spect	file size (byte)	Download	Web QL	Readme
ALMA01000373			227,520	Download	Web QL	Readme

Data Information

• Data Set ID	• Object Name	• R.A.	• Dec.	• Observation Date (UTC)
ALMA01000373	NGC3256	10h27m51.40s	-43d54m18.400s	2012-01-29T18:57:51.001Z

Main Perspective: Image



Enumerate...



Enumerate...

☐ Log Scale

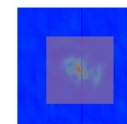
☒ Coordinate Grid

Res. : 3.200 asec/pix

Zoom : x2

R.A. : 10h27m49.63s

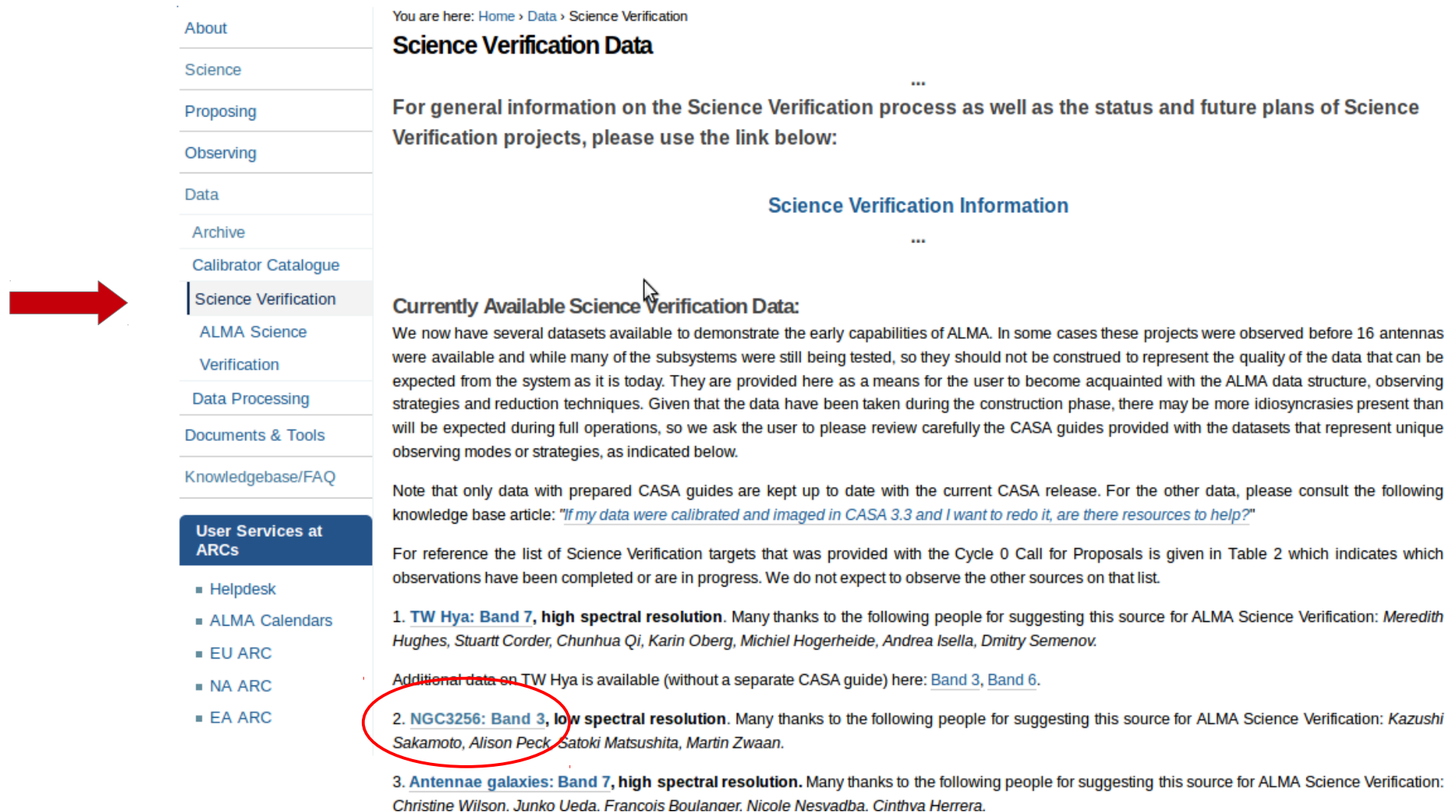
Dec. : -43d54m26.599s



Acknowledgement: Results are based on data obtained from the Japanese Virtual Observatory, which is operated by the Astronomy Data Center, National Astronomical Observatory of Japan

To download a Science Verification data. In the ALMA archive page,
Go to: <https://almascience.nrao.edu/alma-data/archive> → Science Verification

We will download the data for NGC 3256



The screenshot shows the ALMA Science Verification Data page. A red arrow points to the 'Science Verification' link in the left sidebar. The main content area displays the 'Science Verification Data' section, which includes a breadcrumb trail 'You are here: Home > Data > Science Verification', a title 'Science Verification Data', and a paragraph of general information. Below this is a section titled 'Science Verification Information' followed by 'Currently Available Science Verification Data:'. This section contains a paragraph about the datasets and a note about CASA guides. It then lists three targets: 1. TW Hya, 2. NGC3256 (circled in red), and 3. Antennae galaxies. Each target entry includes its name, spectral resolution, and a list of people who suggested it for ALMA Science Verification.

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Documents & Tools
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User Services at ARCs

- Helpdesk
- ALMA Calendars
- EU ARC
- NA ARC
- EA ARC

You are here: [Home](#) > [Data](#) > Science Verification

Science Verification Data

...

For general information on the Science Verification process as well as the status and future plans of Science Verification projects, please use the link below:

[Science Verification Information](#)

...

Currently Available Science Verification Data:

We now have several datasets available to demonstrate the early capabilities of ALMA. In some cases these projects were observed before 16 antennas were available and while many of the subsystems were still being tested, so they should not be construed to represent the quality of the data that can be expected from the system as it is today. They are provided here as a means for the user to become acquainted with the ALMA data structure, observing strategies and reduction techniques. Given that the data have been taken during the construction phase, there may be more idiosyncrasies present than will be expected during full operations, so we ask the user to please review carefully the CASA guides provided with the datasets that represent unique observing modes or strategies, as indicated below.

Note that only data with prepared CASA guides are kept up to date with the current CASA release. For the other data, please consult the following knowledge base article: ["If my data were calibrated and imaged in CASA 3.3 and I want to redo it, are there resources to help?"](#)

For reference the list of Science Verification targets that was provided with the Cycle 0 Call for Proposals is given in Table 2 which indicates which observations have been completed or are in progress. We do not expect to observe the other sources on that list.

1. **TW Hya: Band 7, high spectral resolution.** Many thanks to the following people for suggesting this source for ALMA Science Verification: *Meredith Hughes, Stuart Corder, Chunhua Qi, Karin Oberg, Michiel Hogerheide, Andrea Isella, Dmitry Semenov.*
2. **NGC3256: Band 3, low spectral resolution.** Many thanks to the following people for suggesting this source for ALMA Science Verification: *Kazushi Sakamoto, Alison Peck, Satoki Matsushita, Martin Zwaan.*
3. **Antennae galaxies: Band 7, high spectral resolution.** Many thanks to the following people for suggesting this source for ALMA Science Verification: *Christine Wilson, Junko Ueda, Francois Boulanaer, Nicole Nesvadba, Cinthya Herrera.*

You can get more detail about the project by clicking on the link for NGC 3256.

Scroll down to

Using the data for publication

The following statement should be included in the acknowledgment of papers using the datasets listed above:

"The Atacama Large Millimeter/submillimeter Array (ALMA), an international astronomy facility, is a partnership of Europe, North America and East Asia in cooperation with the Republic of Chile. This paper makes use of the following ALMA Science Verification data: ADS/JAO.ALMA#2011.0.00002.SV"

Obtaining the Data

The data products are contained in three downloadable files:

- Uncalibrated data with tables for reduction
- Calibrated data
- Reference images

and can be downloaded here: [NGC3256 ALMA Science Verification Data](#)

PLEASE make full use of the CASA Guides provided for this data set: [NGC3256 Band 3 CASA Guide](#) (This link will take you to an external web site, hosting the CASA Guides.)

NOTE: This script was developed in CASA version 3.3. It will not run in later version of CASA. For additional information see the following knowledge base article: ["If my data were calibrated and imaged in CASA 3.3 and I want to redo it, are there resources to help?"](#).

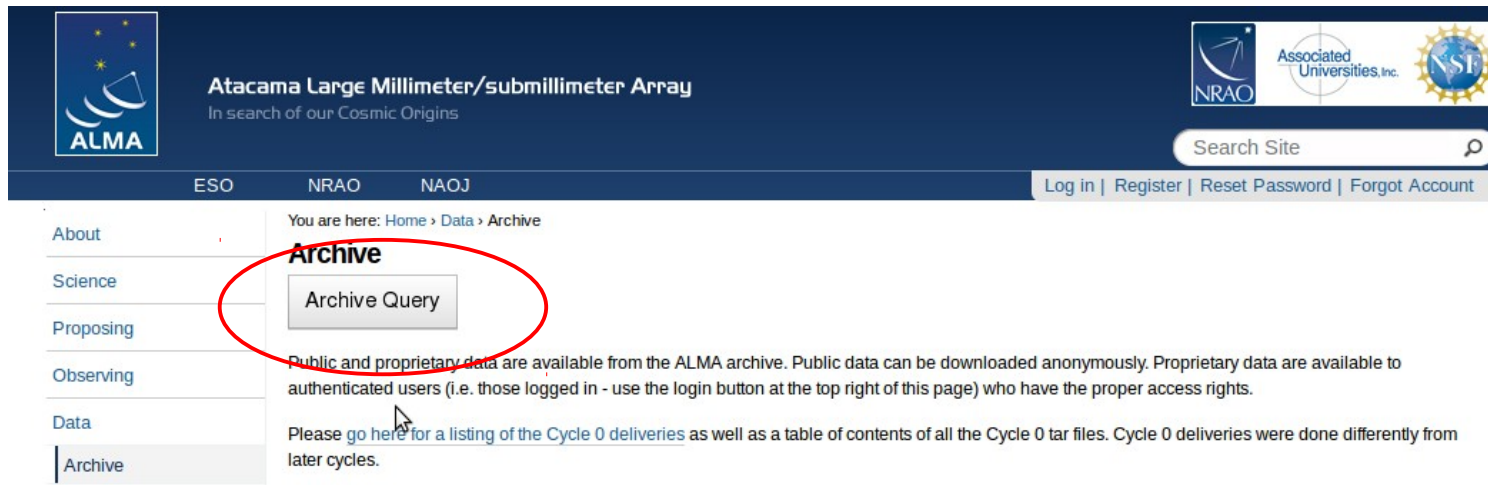
Index of /almadata/sciver/NGC3256

Name	Last modified	Size	Description
Parent Directory		-	
00-README.TXT	01-Jun-2011 11:53	1.4K	
01_NGC3256_Band3_CalibratedData.tgz.torrent	01-Jun-2011 00:18	19K	
01_NGC3256_Band3_ReferenceImages.tgz.torrent	01-Jun-2011 00:18	2.1K	
01_NGC3256_Band3_UnCalibratedMSandTablesForReduction.tgz.torrent	01-Jun-2011 00:18	17K	
NGC3256_Band3_CalibratedData_CASA3.3.tgz	31-May-2011 23:23	482M	
NGC3256_Band3_CalibratedData_CASA4.tgz	09-Nov-2012 05:00	563M	
NGC3256_Band3_ReferenceImages_CASA3.3.tgz	31-May-2011 23:23	5.9M	
NGC3256_Band3_ReferenceImages_CASA4.tgz	09-Nov-2012 05:00	5.9M	
NGC3256_Band3_UnCalibratedMSandTablesForReduction.tgz	31-May-2011 23:27	426M	
NGC3256_Band3_UnCalibratedMSandTablesForReduction/	13-Sep-2011 10:31	-	
cksum_list.txt	18-Aug-2011 15:38	431	
md5sums.txt	12-Feb-2015 13:33	739	

How to get a data set from Archive:

1. Go to

<https://almascience.nrao.edu/alma-data/archive>



2. Go to Archive Query

ALMA Science Archive Query

Query Form Results Table

Search Reset Query Help

Position Source name (Sesame) Source name (ALMA) RA Dec	Energy Frequency Bandwidth Spectral resolution Band	Time Observation date Integration time	Polarisation Polarisation type
Observation Water vapour	Project Project code Project title PI name		Options View: <input checked="" type="radio"/> raw data <input type="radio"/> project <input checked="" type="checkbox"/> public data only <input checked="" type="checkbox"/> science observations only

To download Cycle 0 or Cycle 1 data for NGC 3256

In the query form, insert the information you have about the object, in this case I wrote the name of the target: NGC 3256, and then click **Search**

ALMA Science Archive Query

[Query Form](#) [Results Table](#)

[Search](#) [Reset](#) [Query Help](#)

Position

Source name (Sesame)
 ✓

Source name (ALMA)
RA Dec

Energy

Time

Polarisation

Polarisation type

Options

View: ☒ raw data ☐ project

☒ public data only

☒ science observations only

Observation

Water vapour

Source name (Sesame)

Source name to be resolved with Sesame.

Description

We use the external resolver Sesame to obtain coordinates for the source. Sesame queries the Simbad, NED and VizieR services.

Example

M87
NGC3375

Source

NGC 3256

Coordinates (RA Dec)

10:27:51.60 -43:54:18.0

Object type

IG (Interacting Galaxies)

Morphology Type

Sb

Resolver

Sesame using Simbad

You can place the cursor on each input and learn more about them and also know the format in which the input should be given.

ALMA Science Archive Query

Query Form Results Table

Submit download request

Results Bookmark Export Table Results Help

Showing 6 rows (6 before filtering). [More columns](#)

<input type="checkbox"/>	Project code	Source name	RA	Dec	Band	Integration	Release date ▲	Velocity resolution	Frequency support
Filter:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="m/s"/>	<input type="text"/>
<input type="checkbox"/>	2011.0.00525.S	NGC3256	10:27:51.23	-43:54:16.6	3	473.064	2013-05-01T09:40:00.000	2729.75	99.56..115.00GHz
<input type="checkbox"/>	2011.0.00525.S	NGC3256	10:27:51.23	-43:54:16.6	3	518.19	2013-05-01T09:40:00.000	2729.75	99.56..115.00GHz
<input type="checkbox"/>	2011.0.00525.S	NGC3256	10:27:51.23	-43:54:16.6	3	474.359	2013-05-01T09:40:00.000	2729.75	99.56..115.00GHz
<input type="checkbox"/>	2011.0.00525.S	NGC3256	10:27:51.23	-43:54:16.6	3	518.341	2013-05-01T09:40:00.000	2729.75	99.56..115.00GHz
<input type="checkbox"/>	2011.0.00525.S	NGC3256	10:27:51.23	-43:54:16.6	3	516.898	2013-11-08T09:59:00.000	2729.75	99.56..115.00GHz
<input type="checkbox"/>	2011.0.00525.S	NGC3256	10:27:51.23	-43:54:16.6	3	454.137	2013-11-08T09:59:00.000	2729.75	99.56..115.00GHz

Select the files and “submit download request”

“untar” the files and you will find the a directory like 2011.0.0052S. Enter the directory and find the README file which will explain how your data is arranged.

ALMA Science Archive Query

[Query Form](#) [Results Table](#)

[Submit download request](#) [Results Bookmark](#) [Export Table](#) [Results He](#)

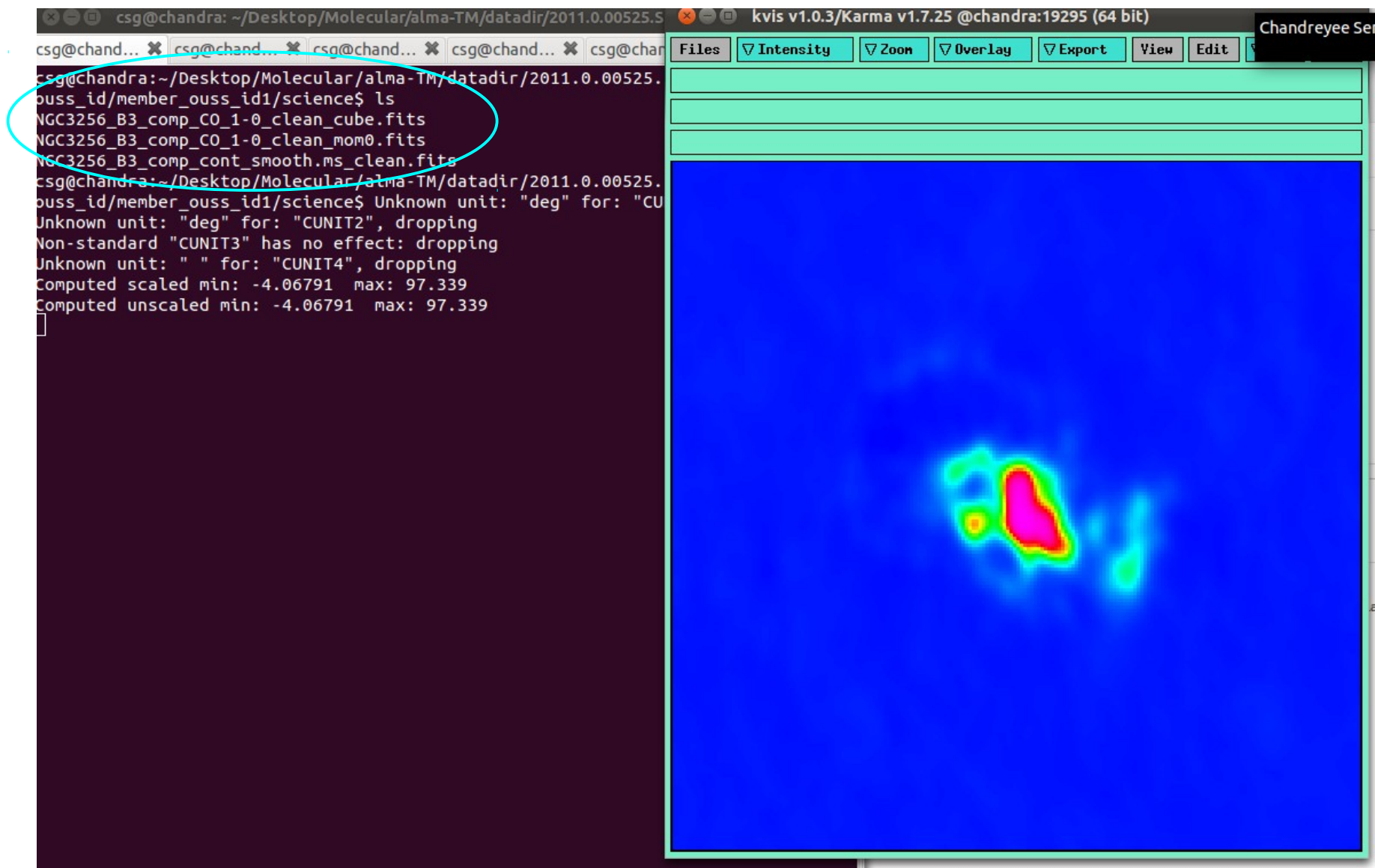
Showing 6 rows (6 before filtering). [More colun](#)

<input checked="" type="checkbox"/>	Project code	Source name
Filter:	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	2011.0.00525.S	NGC3256
<input checked="" type="checkbox"/>	2011.0.00525.S	NGC3256
<input checked="" type="checkbox"/>	2011.0.00525.S	NGC3256
<input checked="" type="checkbox"/>	2011.0.00525.S	NGC3256
<input checked="" type="checkbox"/>	2011.0.00525.S	NGC3256
<input checked="" type="checkbox"/>	2011.0.00525.S	NGC3256

```
csg@chandra: ~/Desktop/Molecular/alma-TM/datadir/2011.0.00525.S/sg_ouss_id/group_ou
csg@chand... X csg@chand... X csg@chand... X csg@chand... X csg@chand... X csg@chand... X
2011.0.00525.S
2011.0.00525.S_2012-04-17_001_of_006.tar
2011.0.00525.S_2012-04-17_002_of_006.tar
2011.0.00525.S_2012-04-17_003_of_006.tar
2011.0.00525.S_2012-04-17_004_of_006.tar
2011.0.00525.S_2012-04-17_005_of_006.tar
2011.0.00525.S_2012-04-17_006_of_006.tar
csg@chandra:~/Desktop/Molecular/alma-TM/datadir$ cd 2011.0.00525.S/
csg@chandra:~/Desktop/Molecular/alma-TM/datadir/2011.0.00525.S$ ls
sg_ouss_id
csg@chandra:~/Desktop/Molecular/alma-TM/datadir/2011.0.00525.S$ cd sg_ouss_id/
csg@chandra:~/Desktop/Molecular/alma-TM/datadir/2011.0.00525.S/sg_ouss_id$ ls
group_ouss_id
csg@chandra:~/Desktop/Molecular/alma-TM/datadir/2011.0.00525.S/sg_ouss_id$ cd gr
oup_ouss_id/
csg@chandra:~/Desktop/Molecular/alma-TM/datadir/2011.0.00525.S/sg_ouss_id/group_
ouss_id$ ls
member_ouss_id1 member_ouss_id2 README
csg@chandra:~/Desktop/Molecular/alma-TM/datadir/2011.0.00525.S/sg_ouss_id/group_
ouss_id$
```

```
so you will find more than one 'name_obs_id' directory.  
Each of these directories contain the following  
directories: raw, calibrated, science, script, qa2, logs.  
  
- 'raw' contains the initial ms calibrated of WVR, Tsys  
and antenna positions, and split by science spectral windows.  
It also contains the calibration tables.  
- 'calibrated' contains the fully calibrated ms.  
- 'science' contains the fits file of the final images.  
- 'script' contains the reduction script.  
- 'qa' contains the qa2 report.  
- 'logs' contains the casa log files.  
  
#####  
0011-0-00505-0
```

You will find the final product – the images in the '**science**' directory. The directory structure may vary from one cycle to another, but the README file will have all the information.



Here the '**science**' directory has the line and continuum images. This depends on what the PI had asked for. The data will be provided in fits files. If you want to reduce the data you can use the calibrated data in the '**calibrated**' directory.


Slide borrowed from a talk by Mark Lacy on 'Archive and data packaging'.

https://science.nrao.edu/facilities/alma/naasc-workshops/alma_dr/ALMAArchiveWorkshopTalk_Feb12.pdf

Summary

- Lots of good data from SV and publicly available in the ASA, with much more becoming public in the future.
- Data processing and delivery changing as software construction is progressing.
- • ALMA data hierarchy is complicated – but for good reasons! Most of the time you will not need to worry about it.



Request #799779618 by Anonymous User 

[Click to edit](#)

☐ Include raw

Select All

Deselect All

Download Selected

Requested Projects / OUSets / Executionblocks

Data entities 1-5 of 5				
Project / OUSet / Executionblock		File	Size	Access
<input type="checkbox"/> Project 2011.0.00525.S				
<input type="checkbox"/> Member OUS uid://A002/X31e326/X26				
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Data entities 1-5 of 5				224.4GB