

ALMA

Archive use and data download

# The ALMA Archive

For the Archive “Intro page”:

<https://almascience.eso.org/alma-data/archive>

To directly access the Archive:

<https://almascience.eso.org/aq/>

# The Archive Interface

# ALMA Science Archive Query

Query Form

Results Table

Search Reset

[Query Help](#)

## Position

Source name (Resolver)

Source name (ALMA)

RA Dec  
Angular resolution  
Largest angular scale

Checks & resolves name to match e.g. SIMBAD, NED etc

Searches source name submitted by PI

## Time

Observation date  
Integration time

## Polarisation

Polarisation type

## Observation

Water vapour

## Project

Project code  
Project title  
PI name  
Project abstract  
Publication count

## Publication

Authors

Tick this if you want to be able to download the data now!

## Options

View:

- raw data
- project
- publication
- public data only
- science observations only

# ALMA Science Archive Query

Query Form

Results Table

Search

Reset

[Query Help](#)

## Position

Source name (Resolver)

Source name (ALMA)

SDC335.579-0.292

RA Dec

Angular resolution

Largest angular scale

## Energy

Frequency

Bandwidth

Spectral resolution

Band

## Time

Observation date

Integration time

## Polarisation

Polarisation type

## Observation

Water vapour

## Project

Project code

Project title

PI name

Project abstract

Publication count

## Publication

Authors

Title

Abstract

## Options

View:

raw data

project

publication

public data only

science observations only

# Results page

## ALMA Science Archive Query

[Query Form](#)[Results Table](#)[Submit download request](#)[Results Bookmark](#) [Export Table](#) [Results Help](#)

Showing 3 of 3 rows.

[More columns](#)

<input type="checkbox"/>	Project code	Source name	RA	Dec	Band	Integration	Release date	Velocity resolution	Frequency support	Pub
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="text"/>
<input type="checkbox"/>	<a href="#">2011.0.00474.S</a>	SDC335.579-0.292	16:30:56.48	-48:43:36.4	3	1938.178	2014-03-01	184.58	<a href="#">90.62..105.14GHz</a>	<a href="#">1</a>
	<a href="#">2016.1.00810.S</a>	SDC335.579-0.292	16:30:59.21	-48:43:48.1	3	4838.4	In Progress	2774.69	<a href="#">90.61..106.01GHz</a>	<a href="#">0</a>
	<a href="#">2016.1.00810.S</a>	SDC335.579-0.292	16:30:59.21	-48:43:48.1	3	12413.808	In Progress	2774.70	<a href="#">90.61..106.01GHz</a>	<a href="#">0</a>

Note I didn't have 'public data only' checked.

# Results page

## ALMA Science Archive Query

[Query Form](#)

[Results Table](#)

[Submit download request](#)

[Results Bookmark](#) [Export Table](#) [Results Help](#)

Showing 1 of 1 rows.

[More columns](#)

<input type="checkbox"/>	Project code	Source name	RA	Dec	Band	Integration	Release date	Velocity resolution	Frequency support	Pub
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="text"/>
<input type="checkbox"/>	<a href="#">2011.0.00474.S</a>	SDC335.579-0.292	16:30:56.48	-48:43:36.4	3	1938.178	2014-03-01	184.58	<a href="#">90.62..105.14GHz</a>	<a href="#">1</a>

This time with 'public data only' checked.

# Download options

Anonymous User: Request #1738315987 ✓

Request Title: [Click to edit](#)

Download Selected

readme  product  raw  raw (semipass)

Project / OUSet / Executionblock	File	Size	Accessible
Request 1738315987			
Project 2011.0.00474.S			
Member OUS uid://A001/X6f/X4			
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 001 of 033.tar</a>	3.2GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 002 of 033.tar</a>	6.0GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 003 of 033.tar</a>	3.5GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 004 of 033.tar</a>	3.4GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 005 of 033.tar</a>	5.8GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 006 of 033.tar</a>	4.6GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 007 of 033.tar</a>	3.0GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 008 of 033.tar</a>	3.0GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 009 of 033.tar</a>	5.4GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 010 of 033.tar</a>	4.6GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 011 of 033.tar</a>	3.4GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 012 of 033.tar</a>	3.4GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 013 of 033.tar</a>	3.5GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 014 of 033.tar</a>	6.0GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 015 of 033.tar</a>	3.0GB	✓
<input checked="" type="checkbox"/> product	<a href="#">2011.0.00474.S 2012-02-09 016 of 033.tar</a>	3.0GB	✓



# Download options

15987 ✓



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`

## Download Manager

Using the ALMA download manager with Chrome is no longer possible. Instead we recommend that you use Firefox or the the scripts option.

## Web Start Download Manager

ALMA's download manager is launched as a desktop application via Java Web Start. It will not stop if you close your browser.

## File List

View a text file containing a list of URLs. This is useful for using third-party download manager's such as *DownThemAll*.

When you've got your data...

# Unpacking

You will have a few .tar files:

These contain the full directory structure and the archived image products

```
aa@almap12:> ls *.tar
2012.1.00352.S_uid__A002_X6dddc4_X6a_001_of_001.tar
2012.1.00352.S_uid__A002_X6dddc4_X6c_001_of_001.tar
2012.1.00352.S_uid__A002_X714516_X175.asdm.sdm.tar
2012.1.00352.S_uid__A002_X716e68_X21a.asdm.sdm.tar
2012.1.00352.S_uid__A002_X71a45c_X9dc.asdm.sdm.tar
2012.1.00352.S_uid__A002_X75bfbf_X1015.asdm.sdm.tar
2012.1.00352.S_uid__A002_X75bfbf_Xce3.asdm.sdm.tar
2012.1.00352.S_uid__A002_X7b13df_X81b.asdm.sdm.tar
2012.1.00352.S_uid__A002_X7c8369_X638.asdm.sdm.tar
2012.1.00352.S_uid__A002_X7ebc8f_X60.asdm.sdm.tar
2012.1.00352.S_uid__A002_X8204db_Xce1.asdm.sdm.tar
2012.1.00352.S uid  A002 X822112 Xcc8.asdm.sdm.tar
```

These contain the raw ASDM data and which gets placed in the /raw/ directory

Untar them all with: `tar xvf <filename>.tar`

# The directory structure

```
2012.1.00352.S
|
|__science_goal.uid__A002_X6dddc4_X68
|
|__group.uid__A002_X6dddc4_X69
|
|__member.uid__A002_X6dddc4_X6a
|
|__calibration/
|__log/
|__product/
|__qa/
|__README
|__script/
|__raw/
|
|__member.uid__A002_X6dddc4_X6c
|
|__calibration/
|__log/
|__product/
|__qa/
|__README
|__script/
|__raw/
```

Contains data products used in the QA2 process to calibrate the data, e.g. Tsys, WVR, Gain and Bandpass tables.

The number/style of products within differ in the case of Manual v.s. Pipeline QA2.

CASA log files from QA2

Depending on the science goal, line or continuum images of the data. Used in QA2 to determine if the sensitivity goal is met. Additional products on a best effort basis.

Reports from the QA2 process. A pipeline weblog or QA report PDF and pngs

Text file summarizing the QA2 results and explaining structure of tarball and file naming conventions

Contains all scripts necessary to restore fully calibrated data from the raw ASDM. The pipeline will be rerun if calibration was pipelined or scripts for all stage of calibration will be provided.

Optional Download. The raw data which were calibrated in QA2.

- `scriptForPI.py`