

# How to use ALMA Science Archive

Min-Young Lee (KASI)

# Why archival data?

- Check if data are already available for a target
- Check the feasibility of a project by looking for similar targets
- Extract unpublished information from existing data (e.g., finding additional spectral lines)
- Retrieve information on a single object but with different configurations (e.g., multi-frequency studies) or in different epochs (e.g., variability studies)
- Retrieve information on a larger sample of objects (e.g., statistical studies)

# Data Quality Assessment (QA)

- ALMA QA happens on 4 levels

**QA0:** Near-real time verification of weather and hardware issues carried out immediately after the observation

**QA1:** Verification of longer-term observatory issues such as pointing and flux calibration

**QA2:** Offline calibration and imaging

- Performed by ARC members with the help of a semi-automatic procedure
- Calibration/imaging can be done by pipeline or manually
- Limited to verify the achievement of PI requests
- Outputs are archived and sent to PI

**QA3:** (Optional) PI may request re-reduction

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# What is in the archive?

- For each project, raw data, calibration/imaging scripts, and tables are delivered
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  - Imaging products are delivered in some cases, as result of QA2 processing
- Imaging products in the archive could be used for science if they meet your requirements
- To prepare data that are best-suited for your science, running the customized calibration and imaging scripts is recommended

A quick look at archival data:  
JVO



# Japanese Virtual Observatory (JVO):

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

### News

- Data of NRO 45m Legacy Project [COMING](#) was updated. New data for 15 galaxies were added, and data for 19 galaxies were updated. (2019-10-04)
- Search I/F for VO Crawler DB is available at [VO Crawler DB](#). (2019-09-15)
- FITS WebQL button was implemented on the VO search result page. You can look at the FITS images found by the VO search interface using FITS WebQL. Try out [MultiScope](#) etc. (2019-04-25)
- [FITS WebQLv4 \(Beta\)](#) was released. New feature "FITS Cube slicer" is available. (2018-10-17)
- VO Search update: new VO search interface named [JVOIndex](#) and [JVOExplorer](#) are open to the public. (2017-03-08)

### Registration

- Read "[about registration](#)".

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

### Data Search

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- [Quick Search](#)
- [Single VO Service](#)
- [Multiple VO Services](#)
- [JVO Sky](#)
- [JVOQL Search](#)

### Subaru

- [Suprime-Cam](#)
- [HDS](#)
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### ALMA

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- [ALMA FITS Archive](#)
- [FITS WebQL Demo](#)

### Nobeyama

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- [Star Formation](#)

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### JVO Space

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- [Work](#)

### Surveys

- [Subaru Deep Survey](#)
- [IRSF Survey](#)
- [Gaia](#)

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# Search data of your interest based on Target Name, Project Code, etc.

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[p10 ver.201227](#) [News](#)

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## ALMA FITS 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), 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. 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

Simbad Name

Project Code

Coords

Frequency

Advanced

Download

Change Log

Numbre of Projects found : 3054

Clear all the filters

Press the "Enter" key in the text box, when you filter the list by the criterion specified in the text box.

e.g. 'abc' --> matches any string which contains 'abc', '.' --> matches any length of characters, '^a' --> matches any string which starts with 'a', 'a\$' --> matches any string which ends with 'a' ...

More information about the syntax of regular expression is found in [help page](#).

#	Project Code	# of Data	Title	Category	Last Update
1	<a href="#">2019.2.00155.S</a>	82	The home stretch: Completing the redshift catalogue of a large flux-limited high-redshift Herschel sample	Galaxy evolution	2021-03-18
2	<a href="#">2018.1.00575.S</a>	20	The Formation of Massive Galaxies in the Reionization Era	Galaxy evolution	2021-03-18
3	<a href="#">2018.1.01358.S</a>	6	The Magnetic Heart of NGC253's Starburst-Driven Wind	Active galaxies	2021-03-18
4	<a href="#">2019.1.00634.S</a>	27	AGN feedback in 3C273, the nearest radio loud quasar	Active galaxies	2021-03-18
5	<a href="#">2019.1.00685.S</a>	3107	On the origin of the dense gas star formation law in Galactic high-mass star forming clumps	ISM and star formation	2021-03-18
6	<a href="#">2019.1.01030.S</a>	18	Deep CO (3-2) and continuum survey of Rosette Nebula globulettes	ISM and star formation	2021-03-18
7	<a href="#">2019.1.01286.S</a>	70	Measuring molecular gas reservoirs in post-starburst galaxies during the peak quenching era	Galaxy evolution	2021-03-18
8	<a href="#">2019.1.01742.S</a>	290	AGN Before and After: Towards a balanced view of the link between circumnuclear gas and nuclear black hole activity	Active galaxies	2021-03-18
9	<a href="#">2019.1.00840.S</a>	38	The Host Galaxies of the Radio-Loud Quasars at z>5	Active galaxies	2021-03-17
10	<a href="#">2018.1.01617.T</a>	65	ALMA Follow-Up of NS-NS/NS-BH mergers from LIGO/Virgo Observing Run 3	Stars and stellar evolution	2021-03-17
11	<a href="#">2019.1.01124.S</a>	56	Which way does it go? Molecular gas in multi-spin stellar counterrotator galaxies	Galaxy evolution	2021-03-17
12	<a href="#">2019.1.01718.S</a>	124	PHANGS-CMZs: Uncovering the Lifecycle of Galactic Nuclei by Mapping Extragalactic 'Central Molecular Zones'	Active galaxies	2021-03-17
13	<a href="#">2019.1.01681.S</a>	18	An Efficient Test of Evolved Planetary System Modeling	Disks and planet formation	2021-03-17
14	<a href="#">2019.1.01517.S</a>	13	Gas around MS stars: A common exocometary origin for hot and cold gas	Disks and planet formation	2021-03-16
15	<a href="#">2019.1.00779.S</a>	321	SPT z=4-7 protoclusters: cluster membership and dynamics from line observations	Galaxy evolution	2021-03-15
16	<a href="#">2019.1.00700.S</a>	51	Resolving water emission and dust temperature in the early universe	Galaxy evolution	2021-03-15
17	<a href="#">2019.1.01477.S</a>	1659	A comprehensive ALMA Redshift Survey of the Brightest Herschel Galaxies	Galaxy evolution	2021-03-15
18	<a href="#">2019.1.00843.S</a>	67	The effects of feedback on molecular gas: Survey of CO in 30 Doradus	ISM and star formation	2021-03-15
19	<a href="#">2019.1.00959.S</a>	315	A systematic experiment to measure fundamental differences in the star-formation properties of red and blue quasars	Active galaxies	2021-03-15
20	<a href="#">2019.1.01136.S</a>	13	Resolving the rapid quenching of star formation in the local Universe	Active galaxies	2021-03-15
21	<a href="#">2019.1.01524.S</a>	8	Using [OIII] to reveal the ISM conditions of UV-selected galaxies in the Epoch of Reionization	Galaxy evolution	2021-03-15

# Search data for 30 Doradus in the LMC (2015.I.00217.S; PI: Melanié Chevance)

Target Name

Simbad Name

Project Code

Coords

Frequency

Advanced

Download

Change Log

1. Search data of which the target name starts with:  
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 0-9

or

2. Search data of which the target name matches the POSIX regular expression of:  

30Dor

Search

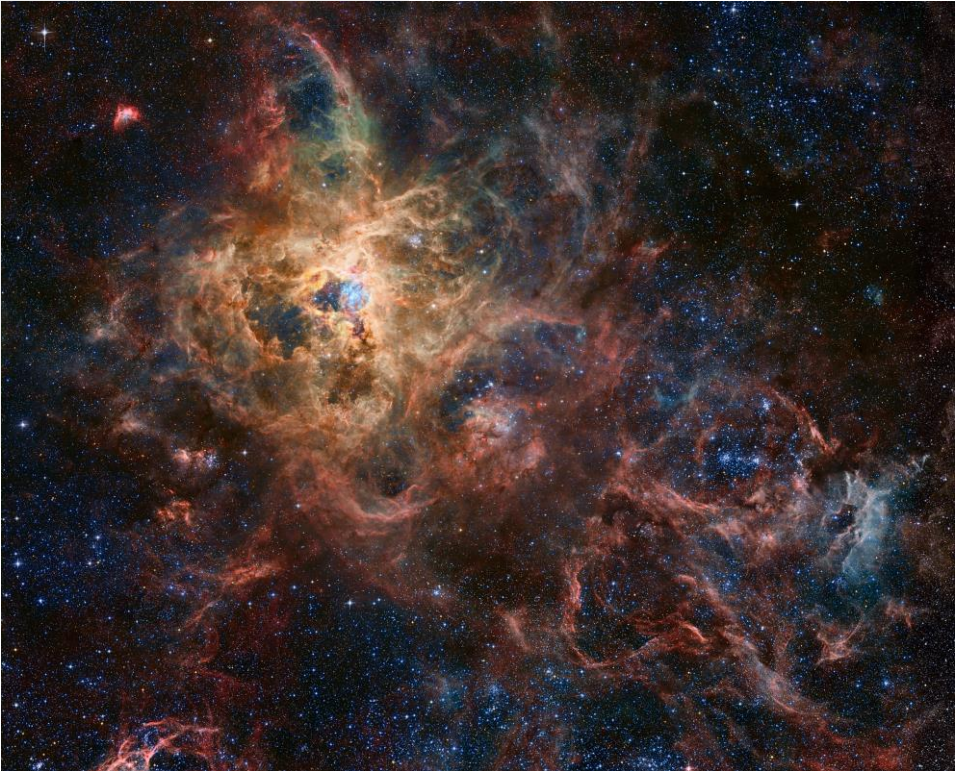
More information about the syntax of regular expression is found in [help page](#).

Search Result (target name contains "30Dor")

Numbre of targets found : 1

#	Target Name	Coords	# of Data	Last Update
1	30doradus	05h38m48.576912 -69d04m43.73143	78	2020-12-20

1







=> Location: [Top Page](#) > [ALMA](#) > [FITS Archive](#) > Target Info

## ALMA FITS Archive : Target Info

Target Name : 30doradus

▶ Filter by Frequency

☐ Show all the data including calibration (\*.flux.fits, \*.pb.fits, target=J####[+~]#####), duplicated, and deprecated data.

Number of data per page : 50

Ordered by dataset\_id (desc)

Total number : 78

#	dataset id	project code	<input type="checkbox"/> all	Download all the checked data	origin ?	image	spect	ra/dec (J2000)	Cube size (XxYxF) ?	Image size (arcmin2)	pixel scale, beam size (arcsec)	band ?	freq. range (GHz)	freq. scale per pix (MHz)	obs date	release date ?	data type	3rd axis	member	original fits name
1	<a href="#">ALMB00085367</a>	2015.1.00217.S <a href="#">ALMA Sci Portal</a>	<input type="checkbox"/>	Download WebQLv4 VO Search	ARI-L			05h38m48.9 -69d04m45	3750 x3750 x957 x1	0.75 x0.75	0.012, 0.087 x0.075	Band6	220.148 -- 220.264	.122	2015-12-15	2020-12-20	CUBE	frequency	A001_X2f7_X150	member.uid__A001_X2f7_X150.ari_l.30doradus_sci.spw3_220206MHz.12m.cube.l.pbc or.fits
2	<a href="#">ALMB00085366</a>	2015.1.00217.S <a href="#">ALMA Sci Portal</a>	<input type="checkbox"/>	Download WebQLv4 VO Search	ARI-L			05h38m48.9 -69d04m45	3750 x3750 x1 x1	0.75 x0.75	0.012, 0.087 x0.074	Band6	220.154 -- 220.243	88.386	2015-12-15	2020-12-20	IMAGE	frequency	A001_X2f7_X150	member.uid__A001_X2f7_X150.ari_l.30doradus_sci.spw2_220198MHz.12m.mfs.l.pbco r.fits
3	<a href="#">ALMB00085365</a>	2015.1.00217.S <a href="#">ALMA Sci Portal</a>	<input type="checkbox"/>	Download WebQLv4 VO Search	ARI-L			05h38m48.9 -69d04m45	3750 x3750 x1 x1	0.75 x0.75	0.012, 0.086 x0.075	Band6	219.310 -- 219.426	116.098	2015-12-15	2020-12-20	IMAGE	frequency	A001_X2f7_X150	member.uid__A001_X2f7_X150.ari_l.30doradus_sci.spw2_219368MHz.12m.mfs.l.pbco r.fits
4	<a href="#">ALMB00085364</a>	2015.1.00217.S <a href="#">ALMA Sci Portal</a>	<input type="checkbox"/>	Download WebQLv4 VO Search	ARI-L			05h38m48.9 -69d04m45	3750 x3750 x957 x1	0.75 x0.75	0.012, 0.086 x0.075	Band6	219.310 -- 219.427	.122	2015-12-15	2020-12-20	CUBE	frequency	A001_X2f7_X150	member.uid__A001_X2f7_X150.ari_l.30doradus_sci.spw2_219368MHz.12m.cube.l.pbc or.fits
5	<a href="#">ALMB00085363</a>	2015.1.00217.S <a href="#">ALMA Sci Portal</a>	<input type="checkbox"/>	Download WebQLv4 VO Search	ARI-L			05h38m48.9 -69d04m45	3750 x3750 x1 x1	0.75 x0.75	0.012, 0.077 x0.062	Band6	230.287 -- 230.397	109.993	2015-12-15	2020-12-20	IMAGE	frequency	A001_X2f7_X150	member.uid__A001_X2f7_X150.ari_l.30doradus_sci.spw1_230342MHz.12m.mfs.l.pbco r.fits
6	<a href="#">ALMB00085362</a>	2015.1.00217.S <a href="#">ALMA Sci Portal</a>	<input type="checkbox"/>	Download WebQLv4 VO Search	ARI-L			05h38m48.9 -69d04m45	3750 x3750 x956 x1	0.75 x0.75	0.012, 0.077 x0.062	Band6	230.281 -- 230.398	.122	2015-12-15	2020-12-20	CUBE	frequency	A001_X2f7_X150	member.uid__A001_X2f7_X150.ari_l.30doradus_sci.spw1_230339MHz.12m.cube.l.pbc or.fits
⋮																				
15	<a href="#">ALMB00025348</a>	2015.1.00217.S <a href="#">ALMA Sci Portal</a>	<input type="checkbox"/>	Download WebQLv4 VO Search	ARI-L			05h38m46.4 -69d05m01	180 x180 x958 x1	0.78 x0.78	0.260, 1.510 x1.316	Band6	230.281 -- 230.398	.122	2015-12-27	2020-07-27	CUBE	frequency	A001_X2f7_X14a	member.uid__A001_X2f7_X14a.ari_l.30doradus_sci.spw1_230339MHz.12m.cube.l.pbc or.fits
16	<a href="#">ALMB00025346</a>	2015.1.00217.S <a href="#">ALMA Sci Portal</a>	<input type="checkbox"/>	Download WebQLv4 VO Search	ARI-L			05h38m46.4 -69d05m01	180 x180 x958 x1	0.78 x0.78	0.260, 1.547 x1.336	Band6	220.147 -- 220.264	.122	2015-12-27	2020-07-27	CUBE	frequency	A001_X2f7_X14a	member.uid__A001_X2f7_X14a.ari_l.30doradus_sci.spw3_220206MHz.12m.cube.l.pbc or.fits

■ Target

30doradus

■ Coord. (RA/DEC J2000)

05h38m46.4-69d05m01

■ Image Size (arcmin2)

0.78x0.78

■ Band Name ?

Band6

■ Freq. Range. (GHz)

230.281 -- 230.398

■ Data Type

CUBE

■ Cube Pix ?

180x180x958x1

■ 3rd(4th) Axis

frequency

■ Deprecated / Duplicated

false / false

■ Spectral Windows (GHz) ?

219.31 -- 219.43    220.15 -- 220.26  
230.28 -- 230.40    230.80 -- 232.78

■ Dataset ID

ALMB00025348

■ Date of Observations

2015-12-27

■ Image Scale and Beam Size. (arcsec)

0.260, 1.510x1.316

■ Spectrum Scale per pix. (MHz)

.122

■ Project Code ?

[2015.1.00217.S](#)  
[ALMA Sci Portal](#)

■ science goal UID

A001\_X2f7\_X146

■ group UID

A001\_X2f7\_X147

■ member UID

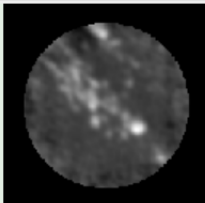
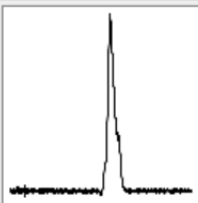
A001\_X2f7\_X14a

■ origin ?

ARI-L

■ Original Filename

member.uid\_\_A001\_X2f7\_X14a.ari\_l.30doradus\_sci.spw1\_230339MHz.12m.cube.l.pbcor.fits

data id	image	spect	file size (byte)	Download	WebQL	Readme
ALMB00025348			124,168,320	<a href="#">Download</a>	<a href="#">WebQLv4</a>	<a href="#">Readme</a>

■ Target  
30doradus

■ Coord. (RA/DEC J2000)  
05h38m46.4-69d05m01

■ Image Size (arcmin2)  
0.78x0.78

■ Band Name ?  
Band6

■ Freq. Range. (GHz)  
230.281 -- 230.398

■ Data Type  
CUBE

■ Cube Pix ?  
180x180x958x1

■ 3rd(4th) Axis  
frequency

■ Deprecated / Duplicated  
false / false

■ Spectral Windows (GHz) ?  
219.31 -- 219.43    220.15 -- 220.26  
230.28 -- 230.40    230.80 -- 232.78

■ Dataset ID  
ALMB00025348

■ Date of Observations  
2015-12-27

■ Image Scale and Beam Size. (arcsec)  
0.260, 1.510x1.316

■ Spectrum Scale per pix. (MHz)  
.122

■ Project Code ?  
[2015.1.00217.S](#)  
[ALMA Sci Portal](#)

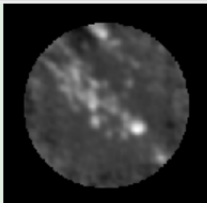
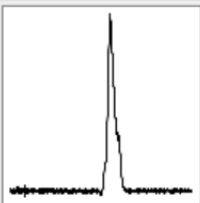
■ science goal UID  
A001\_X2f7\_X146

■ group UID  
A001\_X2f7\_X147

■ member UID  
A001\_X2f7\_X14a

■ origin ?  
ARI-L

■ Original Filename  
member.uid\_\_A001\_X2f7\_X14a.ari\_l.30doradus\_sci.spw1\_230339MHz.12m.cube.l.pbcor.fits

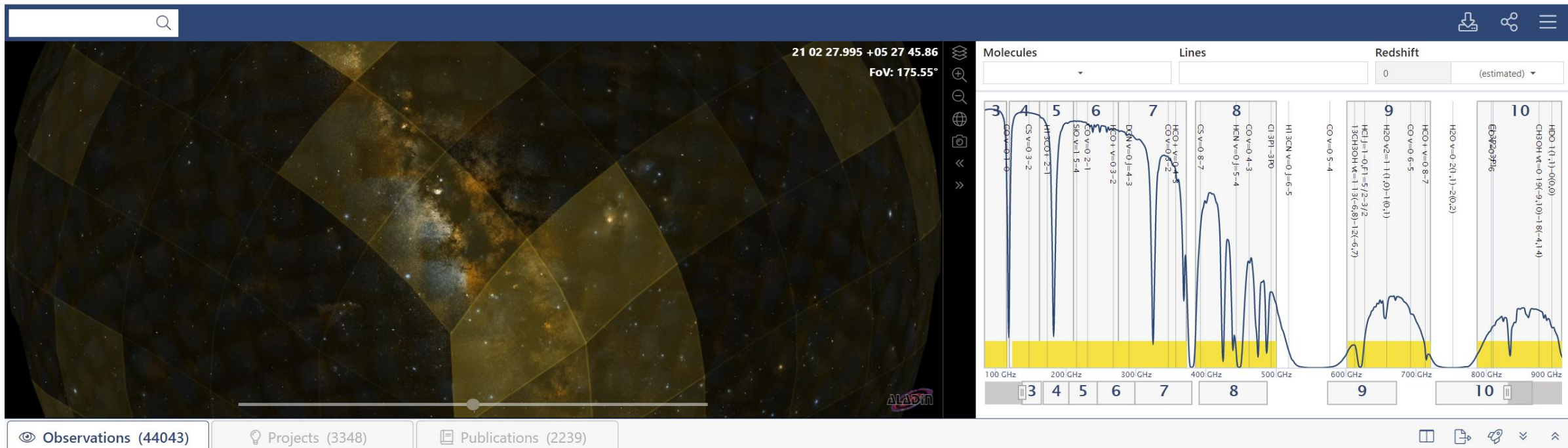
data id	image	spect	file size (byte)	Download	WebQL	Readme
ALMB00025348			124,168,320	<a href="#">Download</a>	<a href="#">WebQLv4</a>	<a href="#">Readme</a>

































# ALMA Science Archive

ALMA Science Archive: <https://almascience.nrao.edu/asax/>



ALMA Science Data Explorer																				
		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	Int. T	
			<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="text"/>	
				h:m:s	d:m:s		mJy/beam				arcsec	km/s			arcsec	arcsec			s	
			<a href="#">2011.0.00191.S</a>	Fomalhaut b	22:57:38.685	-29:37:12.616	7	0.1181	<a href="#">343.08..358.84GHz</a>	<a href="#">2012-12-06</a>	<a href="#">2</a>	1.015	0.816	12m	8.816	16.592	Disks and planet formati...	Debris disks, Exoplanets	<a href="#">870</a>	
			<a href="#">2011.0.00101.S</a>	GRB021004	00:26:54.680	+18:55:41.600	7	0.1136	<a href="#">337.01..353.00GHz</a>	<a href="#">2012-12-06</a>	<a href="#">2</a>	0.981	26.541	12m	7.876	16.878	Active galaxies	Starburst galaxies, Gam...	<a href="#">374</a>	
			<a href="#">2011.0.00131.S</a>	R Scl	01:26:58.079	-32:32:36.424	7	0.9115	<a href="#">330.25..346.11GHz</a>	<a href="#">2012-12-06</a>	<a href="#">5</a>	1.025	0.846	12m	mosaic	8.838	62.007	Stars and stellar evolution	Asymptotic Giant Branch...	<a href="#">661</a>
			<a href="#">2011.0.00397.S</a>	J041754.10-281655.9	04:17:54.100	-28:16:55.900	7	0.4848	<a href="#">337.02..353.01GHz</a>	<a href="#">2012-12-20</a>	<a href="#">3</a>	1.114	26.541	12m	7.804	16.877	Active galaxies	Active Galactic Nuclei (A...	<a href="#">90.7</a>	
			<a href="#">2011.0.00397.S</a>	J061200.23-062209.6	06:12:00.230	-06:22:09.600	7	0.5346	<a href="#">337.00..352.99GHz</a>	<a href="#">2012-12-20</a>	<a href="#">3</a>	1.114	26.541	12m	7.804	16.878	Active galaxies	Active Galactic Nuclei (A...	<a href="#">90.7</a>	
			<a href="#">2011.0.00397.S</a>	J063027.81-212058.6	06:30:27.810	-21:20:58.600	7	0.5346	<a href="#">337.01..352.99GHz</a>	<a href="#">2012-12-20</a>	<a href="#">3</a>	1.114	26.541	12m	7.804	16.878	Active galaxies	Active Galactic Nuclei (A...	<a href="#">90.7</a>	
			<a href="#">2011.0.00397.S</a>	J035448.24-330827.2	03:54:48.240	-33:08:27.200	7	0.4848	<a href="#">337.03..353.01GHz</a>	<a href="#">2012-12-20</a>	<a href="#">3</a>	1.114	26.541	12m	7.803	16.877	Active galaxies	Active Galactic Nuclei (A...	<a href="#">90.7</a>	
			<a href="#">2011.0.00397.S</a>	J054930.06-373940.1	05:49:30.060	-37:39:40.100	7	0.4848	<a href="#">337.02..353.00GHz</a>	<a href="#">2012-12-20</a>	<a href="#">3</a>	1.114	26.541	12m	7.804	16.878	Active galaxies	Active Galactic Nuclei (A...	<a href="#">90.7</a>	
			<a href="#">2011.0.00397.S</a>	J070257.20-280842.3	07:02:57.200	-28:08:42.300	7	0.5346	<a href="#">337.01..352.99GHz</a>	<a href="#">2012-12-20</a>	<a href="#">3</a>	1.114	26.541	12m	7.804	16.878	Active galaxies	Active Galactic Nuclei (A...	<a href="#">90.7</a>	

ALMA Science Archive: <https://almascience.nrao.edu/asax/>

🔍

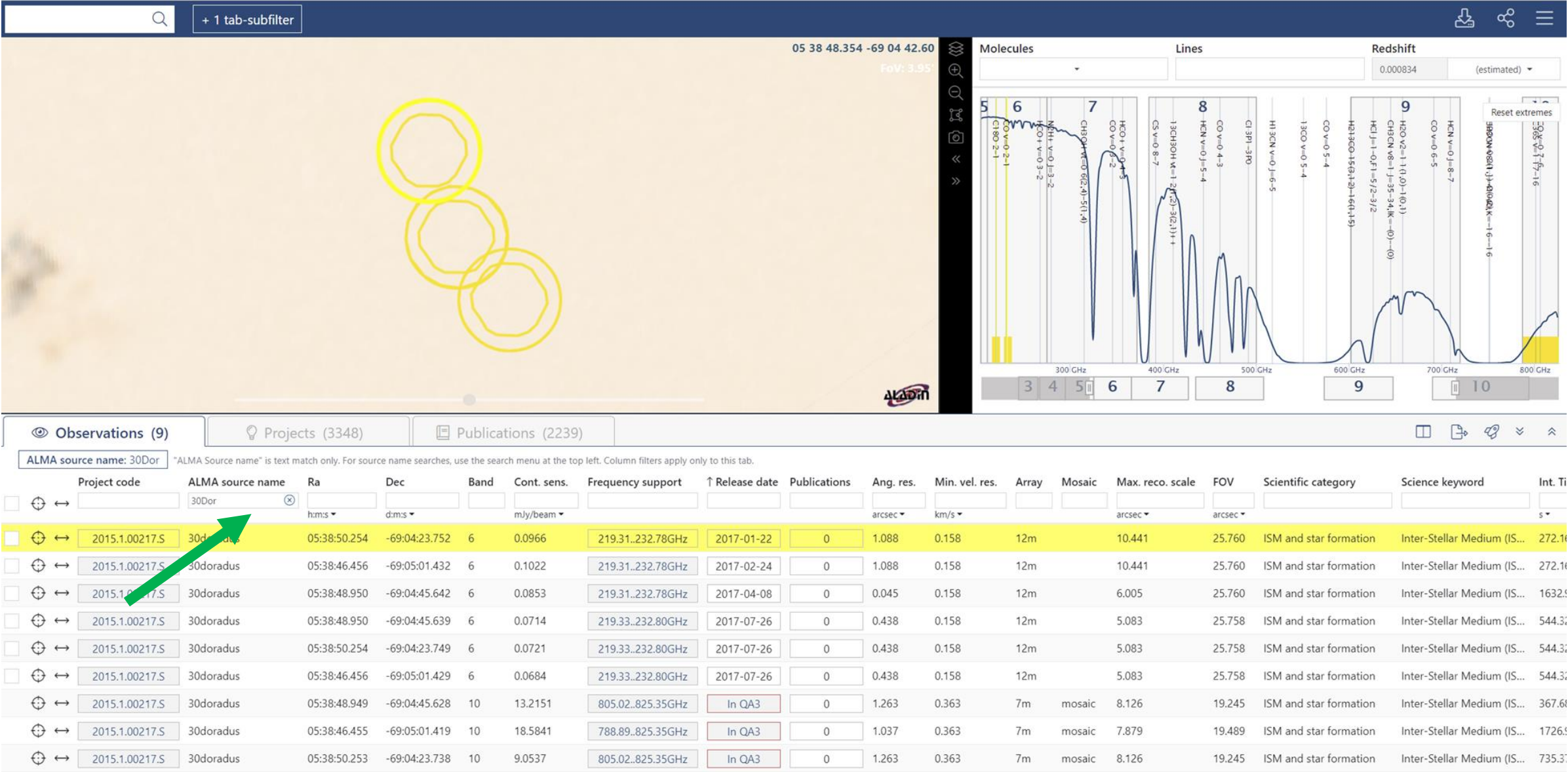
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Source name <input type="text"/>	Frequency <input type="text"/>	Project code <input type="text"/>	Publication Title <input type="text"/>	Observation Date <input type="text"/>	<div style="position: relative; height: 300px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background-image: linear-gradient(to bottom, transparent 49%, black 49% 51%, black 51% 53%, transparent 53%); background-size: 100% 100%; pointer-events: none;"></div> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; opacity: 0.5; pointer-events: none;"> </div> <div style="position: absolute; top: 0; right: 0; width: 80px; height: 100%; background-color: black; color: white; font-size: small; text-align: center; padding-top: 10px;">           28.12 75.55° ⏮ ⏪ 🔍 🌐 📷 ⏩ ⏭         </div> </div>
ALMA source name <input type="text"/>	Band <input type="text"/>	Project Title <input type="text"/>	Abstract <input type="text"/>	Polarisation Type <input type="text"/>	
RA Dec <input type="text"/>	Spectral resolution <input type="text"/>	Project abstract <input type="text"/>	First Author <input type="text"/>	Member oid <input type="text"/>	
Galactic <input type="text"/>	Continuum sensitivity <input type="text"/>	PI Full Name <input type="text"/>	Authors <input type="text"/>		
Target List <div><input type="text"/> 📄</div>	Line sensitivity (10 km/s) <input type="text"/>	Proposal authors <input type="text"/>			
Angular Resolution <input type="text"/>		Science keyword <input type="text"/>			<div>Options</div> <div> <input type="checkbox"/> Public data only             <input type="checkbox"/> Calibration observations           </div>
Maximum Recoverable Scale <input type="text"/>					<div style="display: flex; justify-content: space-between;"> <div>Molecules</div> <div>Lines</div> <div>Redshift</div> </div>

👁 Observations (44043)
💡 Projects (3348)
📄 Publications (2239)

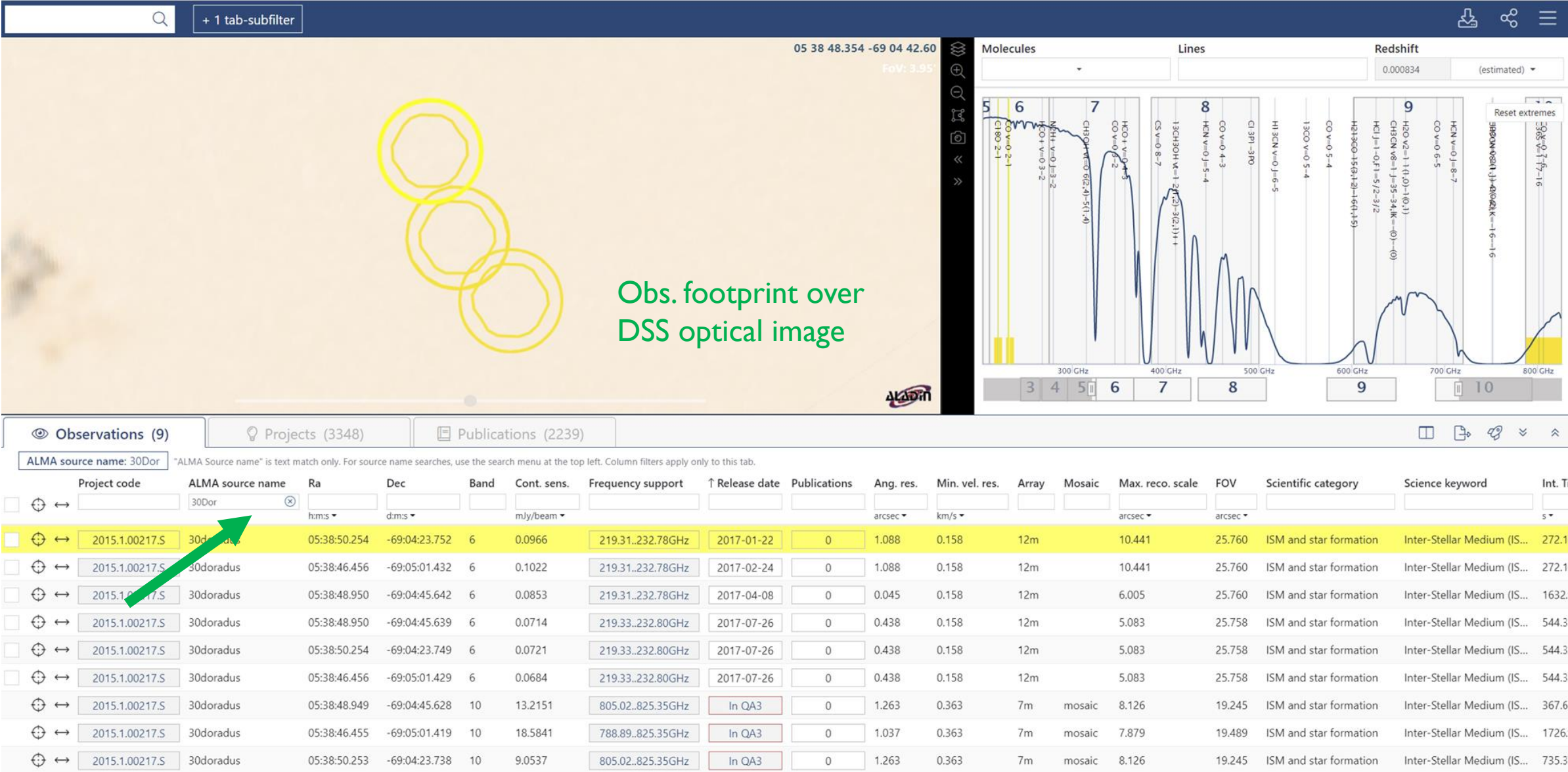
	<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>↔</div></div>	Project code	ALMA source name	Ra	Dec	Band	Cont. sens.	Frequency support	↑ Release date	Publications	Ang. res.	Min. vel. res.	Array	Mosaic	Max. reco. scale	FOV	Scientific category	Science keyword	Int. T
				h:m:s	d:m:s		mJy/beam			arcsec	km/s			arcsec	arcsec			s	
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>↔</div></div>		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	1.015	0.816	12m		8.816	16.592	Disks and planet formati...	Debris disks, Exoplanets	870
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>↔</div></div>		2011.0.00101.S	GRB021004	00:26:54.680	+18:55:41.600	7	0.1136	337.01..353.00GHz	2012-12-06	2	0.981	26.541	12m		7.876	16.878	Active galaxies	Starburst galaxies, Gam...	374
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>↔</div></div>		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	1.025	0.846	12m	mosaic	8.838	62.007	Stars and stellar evolution	Asymptotic Giant Branch...	661
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>↔</div></div>		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	1.114	26.541	12m		7.804	16.877	Active galaxies	Active Galactic Nuclei (A...	90.7
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>↔</div></div>		2011.0.00397.S	J061200.23-062209.6	06:12:00.230	-06:22:09.600	7	0.5346	337.00..352.99GHz	2012-12-20	3	1.114	26.541	12m		7.804	16.878	Active galaxies	Active Galactic Nuclei (A...	90.7
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>↔</div></div>		2011.0.00397.S	J063027.81-212058.6	06:30:27.810	-21:20:58.600	7	0.5346	337.01..352.99GHz	2012-12-20	3	1.114	26.541	12m		7.804	16.878	Active galaxies	Active Galactic Nuclei (A...	90.7
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>↔</div></div>		2011.0.00397.S	J035448.24-330827.2	03:54:48.240	-33:08:27.200	7	0.4848	337.03..353.01GHz	2012-12-20	3	1.114	26.541	12m		7.803	16.877	Active galaxies	Active Galactic Nuclei (A...	90.7
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>↔</div></div>		2011.0.00397.S	J054930.06-373940.1	05:49:30.060	-37:39:40.100	7	0.4848	337.02..353.00GHz	2012-12-20	3	1.114	26.541	12m		7.804	16.878	Active galaxies	Active Galactic Nuclei (A...	90.7
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>↔</div></div>		2011.0.00397.S	J070257.20-280842.3	07:02:57.200	-28:08:42.300	7	0.5346	337.01..352.99GHz	2012-12-20	3	1.114	26.541	12m		7.804	16.878	Active galaxies	Active Galactic Nuclei (A...	90.7



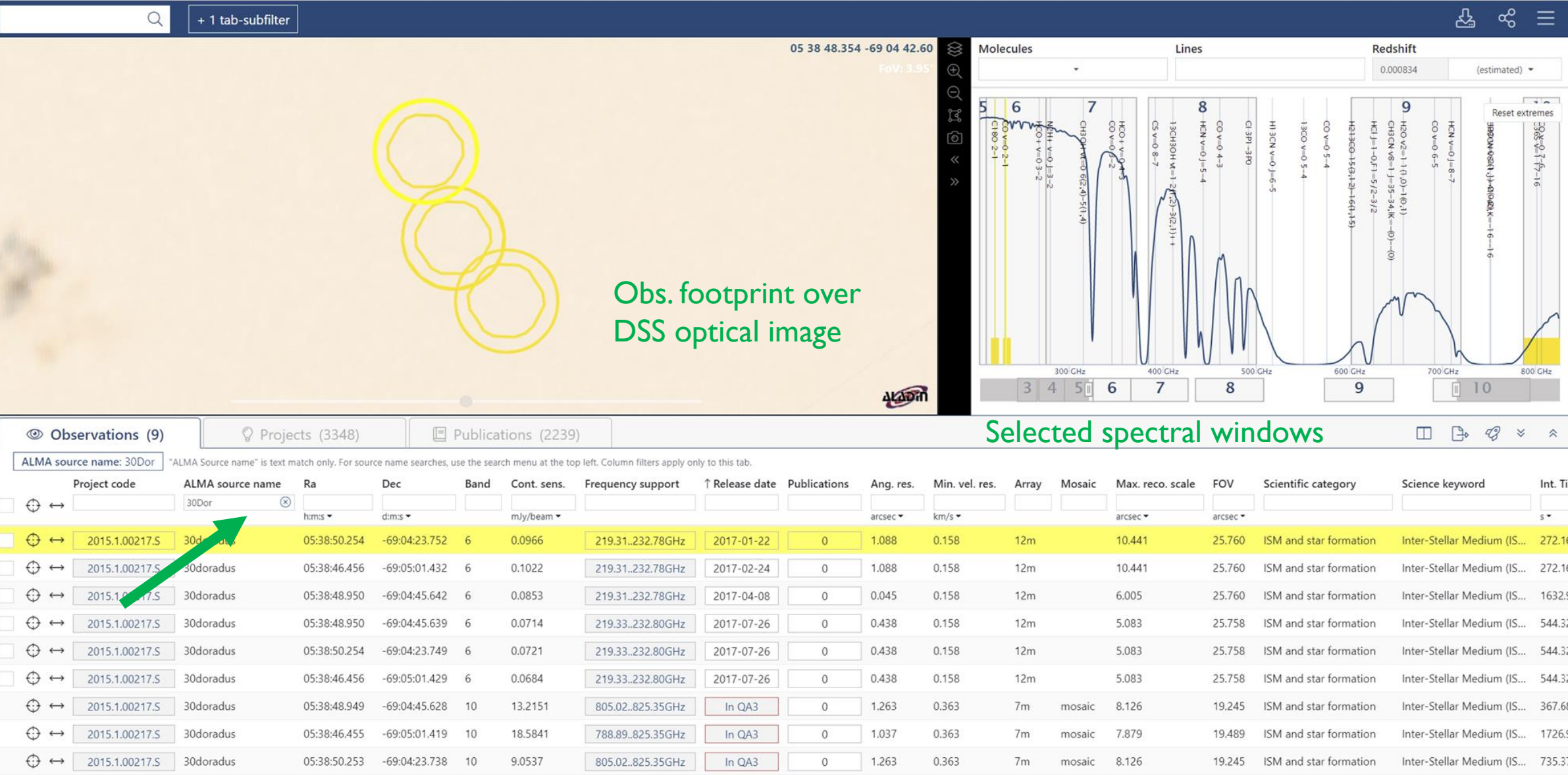
# Search data of your interest



# Search data of your interest

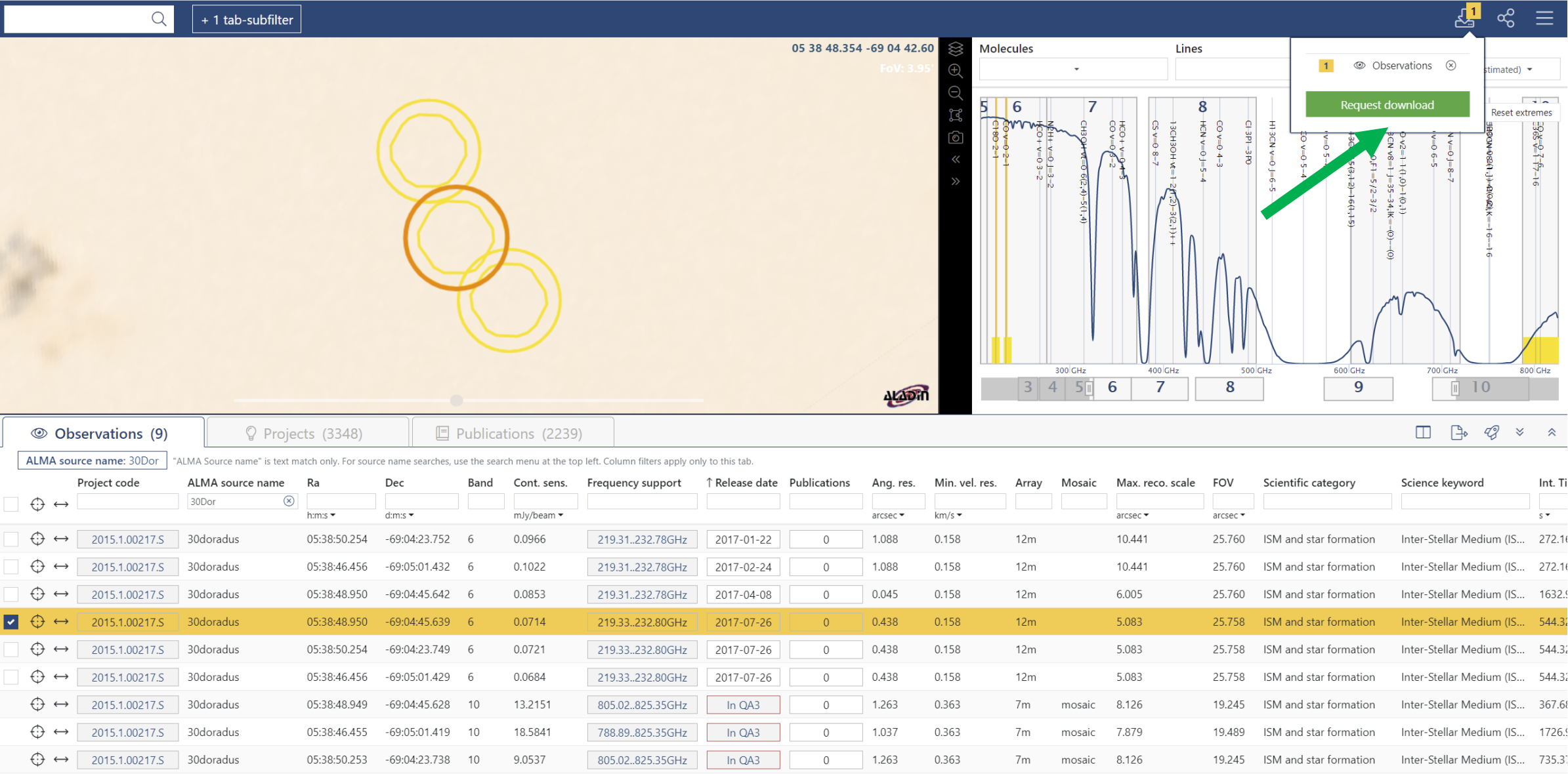


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Science Goal: Sources in the same sky region that share the same calibration, spectral setup

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Science Goal: Sources in the same sky region that share the same calibration, spectral setup

Group: Can contain several configurations to be combined in data processing

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<input type="checkbox"/> raw (semipass)	<a href="#">2015.1.00217.S_uid_A002_Xaddcfa_X186.asdm.sdm.tar</a>	4 GiB	✓	
▶ <input type="checkbox"/> external	<a href="#">2015.1.00217.S_uid_A001_X2f7_X150_external_ari_l_001_of_001.tar</a>	196 GiB	✓	

Science Goal: Sources in the same sky region that share the same calibration, spectral setup

Group: Can contain several configurations to be combined in data processing

Member: Can contain multiple Scheduling Block (SB)

Anonymous User: Request #1653827435974 ✓

Request Title: [click to edit](#)☒ readme ☒ product ☒ auxiliary ☐ raw ☐ raw (semipass) ☐ external

Project / OUSet / Executionblock	File	Size	Accessible	Actions
▼ Request 1653827435974		1 GiB		
▼ Project 2015.1.00217.S				
▼ Science Goal OUS uid://A001/X2f7/X14c				
▼ Group OUS uid://A001/X2f7/X14d				
▼ Member OUS uid://A001/X2f7/X14e				
▶ SB 30doradu_c_06_TE				
<input checked="" type="checkbox"/> readme	<a href="#">member.uid_A001_X2f7_X14e.README.txt</a>	14 KIB	✓	
▶ <input checked="" type="checkbox"/> product	<a href="#">2015.1.00217.S_uid_A001_X2f7_X14e_001_of_001.tar</a>	171 MIB	✓	
<input checked="" type="checkbox"/> auxiliary	<a href="#">2015.1.00217.S_uid_A001_X2f7_X14e_auxiliary.tar</a>	117 MIB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xb3d48f_X3be9.asdm.sdm.tar</a>	6 GiB	✓	
▶ <input type="checkbox"/> external	<a href="#">2015.1.00217.S_uid_A001_X2f7_X14e_external_ari_l_001_of_001.tar</a>	6 GiB	✓	
▼ Member OUS uid://A001/X2f7/X150				
▶ SB 30doradu_c_06_TC				
<input checked="" type="checkbox"/> readme	<a href="#">member.uid_A001_X2f7_X150.README.txt</a>	16 KIB	✓	
▶ <input checked="" type="checkbox"/> product	<a href="#">2015.1.00217.S_uid_A001_X2f7_X150_001_of_001.tar</a>	92 MIB	✓	
<input checked="" type="checkbox"/> auxiliary	<a href="#">2015.1.00217.S_uid_A001_X2f7_X150_auxiliary.tar</a>	733 MIB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X285.asdm.sdm.tar</a>	7 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X35b9.asdm.sdm.tar</a>	6 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X391c.asdm.sdm.tar</a>	7 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X3b2.asdm.sdm.tar</a>	6 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X4bb.asdm.sdm.tar</a>	6 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xaddcfa_X3e4.asdm.sdm.tar</a>	4 GiB	✓	
<input type="checkbox"/> raw (semipass)	<a href="#">2015.1.00217.S_uid_A002_Xadbc4c_X11b3.asdm.sdm.tar</a>	5 GiB	✓	
<input type="checkbox"/> raw (semipass)	<a href="#">2015.1.00217.S_uid_A002_Xaddcfa_X186.asdm.sdm.tar</a>	4 GiB	✓	
▶ <input type="checkbox"/> external	<a href="#">2015.1.00217.S_uid_A001_X2f7_X150_external_ari_l_001_of_001.tar</a>	196 GiB	✓	

Science Goal: Sources in the same sky region that share the same calibration, spectral setup

Group: Can contain several configurations to be combined in data processing

Member: Can contain multiple Scheduling Block (SB)

Scheduling Block (SB): Minimum unit of observation

Anonymous User: Request #1653827435974 ✓

Request Title: [click to edit](#)

Download Selected

☒ readme
 ☒ product
 ☒ auxiliary
 ☐ raw
 ☐ raw (semipass)
 ☐ external

Project / OUSet / Executionblock	File	Size	Accessible	Actions
▼  Request 1653827435974		1 GiB		
▼  Project 2015.1.00217.S				
▼  Science Goal OUS uid://A001/X2f7/X14c				
▼  Group OUS uid://A001/X2f7/X14d				
▼  Member OUS uid://A001/X2f7/X14e				
▶  SB 30doradu_c_06_TE				
<input checked="" type="checkbox"/> readme	<a href="#">member.uid_A001_X2f7_X14e.README.txt</a>	14 KIB	✓	
▶ <input checked="" type="checkbox"/> product	<a href="#">2015.1.00217.S_uid_A001_X2f7_X14e_001_of_001.tar</a>	171 MiB	✓	
<input checked="" type="checkbox"/> auxiliary	<a href="#">2015.1.00217.S_uid_A001_X2f7_X14e_auxiliary.tar</a>	117 MiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xb3d48f_X3be9.asdm.sdm.tar</a>	6 GiB	✓	
<input type="checkbox"/> external	<a href="#">2015.1.00217.S_uid_A001_X2f7_X14e_external_ari_l_001_of_001.tar</a>	6 GiB	✓	
▼  Member OUS uid://A001/X2f7/X150				
▶  SB 30doradu_c_06_TC				
<input checked="" type="checkbox"/> readme	<a href="#">member.uid_A001_X2f7_X150.README.txt</a>	16 KIB	✓	
▶ <input checked="" type="checkbox"/> product	<a href="#">2015.1.00217.S_uid_A001_X2f7_X150_001_of_001.tar</a>	92 MiB	✓	
<input checked="" type="checkbox"/> auxiliary	<a href="#">2015.1.00217.S_uid_A001_X2f7_X150_auxiliary.tar</a>	733 MiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X285.asdm.sdm.tar</a>	7 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X35b9.asdm.sdm.tar</a>	6 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X391c.asdm.sdm.tar</a>	7 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X3b2.asdm.sdm.tar</a>	6 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X4bb.asdm.sdm.tar</a>	6 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xaddcfa_X3e4.asdm.sdm.tar</a>	4 GiB	✓	
<input type="checkbox"/> raw (semipass)	<a href="#">2015.1.00217.S_uid_A002_Xadbc4c_X11b3.asdm.sdm.tar</a>	5 GiB	✓	
<input type="checkbox"/> raw (semipass)	<a href="#">2015.1.00217.S_uid_A002_Xaddcfa_X186.asdm.sdm.tar</a>	4 GiB	✓	
▶ <input type="checkbox"/> external	<a href="#">2015.1.00217.S_uid_A001_X2f7_X150_external_ari_l_001_of_001.tar</a>	196 GiB	✓	

- Default includes README, FITS files, quality assessment results, scripts, log files, calibration and flagging tables, etc.
- If you are interested in FITS products only, just download *readme* and *product*.

Anonymous User: Request #1653827435974 ✓

Request Title: [click to edit](#)

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☒ readme
 ☒ product
 ☒ auxiliary
 ☐ raw
 ☐ raw (semipass)
 ☐ external

Project / OUSet / Executionblock	File	Size	Accessible	Actions
▼ Request 1653827435974		7 GiB		
▼ Project 2015.1.00217.S				
▼ Science Goal OUS uid://A001/X2f7/X14c				
▼ Group OUS uid://A001/X2f7/X14d				
▼ Member OUS uid://A001/X2f7/X14e				
▶ SB 30doradu_c_06_TF				
<input checked="" type="checkbox"/> readme	<a href="#">member.uid_A001_X2f7_X14e.README.txt</a>	14 KiB	✓	
▶ <input type="checkbox"/> product	<a href="#">2015.1.00217.S_uid_A001_X2f7_X14e_001_of_001.tar</a>	171 MiB	✓	
<input checked="" type="checkbox"/> auxiliary	<a href="#">2015.1.00217.S_uid_A001_X2f7_X14e_auxiliary.tar</a>	117 MiB	✓	
<input checked="" type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xb3d48f_X3be9.asdm.sdm.tar</a>	6 GiB	✓	
▶ <input type="checkbox"/> external	<a href="#">2015.1.00217.S_uid_A001_X2f7_X14e_external_ari_l_001_of_001.tar</a>	6 GiB	✓	
▼ Member OUS uid://A001/X2f7/X150				
▶ SB 30doradu_c_06_TC				
<input checked="" type="checkbox"/> readme	<a href="#">member.uid_A001_X2f7_X150.README.txt</a>	16 KiB	✓	
▶ <input checked="" type="checkbox"/> product	<a href="#">2015.1.00217.S_uid_A001_X2f7_X150_001_of_001.tar</a>	92 MiB	✓	
<input checked="" type="checkbox"/> auxiliary	<a href="#">2015.1.00217.S_uid_A001_X2f7_X150_auxiliary.tar</a>	733 MiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X285.asdm.sdm.tar</a>	7 GiB	✓	
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<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X391c.asdm.sdm.tar</a>	7 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X3b2.asdm.sdm.tar</a>	6 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X4bb.asdm.sdm.tar</a>	6 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xaddcfa_X3e4.asdm.sdm.tar</a>	4 GiB	✓	
<input type="checkbox"/> raw (semipass)	<a href="#">2015.1.00217.S_uid_A002_Xadbc4c_X11b3.asdm.sdm.tar</a>	5 GiB	✓	
<input type="checkbox"/> raw (semipass)	<a href="#">2015.1.00217.S_uid_A002_Xaddcfa_X186.asdm.sdm.tar</a>	4 GiB	✓	
▶ <input type="checkbox"/> external	<a href="#">2015.1.00217.S_uid_A001_X2f7_X150_external_ari_l_001_of_001.tar</a>	196 GiB	✓	

- If you want to re-create calibrated Measurement Sets (MS) from raw data, download *readme*, *auxiliary*, and *raw*.

Anonymous User: Request #1653827435974 ✓

Request Title: [click to edit](#)[Download Selected](#)☒ readme ☒ product ☒ auxiliary ☐ raw ☐ raw (semipass) ☐ external

Project / OUSet / Executionblock	File	Size	Accessible	Actions
▼ Request 1653827435974		7 GiB		
▼ Project 2015.1.00217.S				
▼ Science Goal OUS uid://A001/X2f7/X14c				
▼ Group OUS uid://A001/X2f7/X14d				
▼ Member OUS uid://A001/X2f7/X14e				
▶ SB 30doradu_c_06_TF				
<input checked="" type="checkbox"/> readme	<a href="#">member.uid_A001_X2f7_X14e.README.txt</a>	14 KiB	✓	
▶ <input type="checkbox"/> product	<a href="#">2015.1.00217.S_uid_A001_X2f7_X14e_001_of_001.tar</a>	171 MiB	✓	
<input checked="" type="checkbox"/> auxiliary	<a href="#">2015.1.00217.S_uid_A001_X2f7_X14e_auxiliary.tar</a>	117 MiB	✓	
<input checked="" type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xb3d48f_X3be9.asdm.sdm.tar</a>	6 GiB	✓	
▶ <input type="checkbox"/> external	<a href="#">2015.1.00217.S_uid_A001_X2f7_X14e_external_ari_l_001_of_001.tar</a>	6 GiB	✓	
▼ Member OUS uid://A001/X2f7/X150				
▶ SB 30doradu_c_06_TC				
<input checked="" type="checkbox"/> readme	<a href="#">member.uid_A001_X2f7_X150.README.txt</a>	16 KiB	✓	
▶ <input checked="" type="checkbox"/> product	<a href="#">2015.1.00217.S_uid_A001_X2f7_X150_001_of_001.tar</a>	92 MiB	✓	
<input checked="" type="checkbox"/> auxiliary	<a href="#">2015.1.00217.S_uid_A001_X2f7_X150_auxiliary.tar</a>	733 MiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X285.asdm.sdm.tar</a>	7 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X35b9.asdm.sdm.tar</a>	6 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X391c.asdm.sdm.tar</a>	7 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X3b2.asdm.sdm.tar</a>	6 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xadc734_X4bb.asdm.sdm.tar</a>	6 GiB	✓	
<input type="checkbox"/> raw	<a href="#">2015.1.00217.S_uid_A002_Xaddcfa_X3e4.asdm.sdm.tar</a>	4 GiB	✓	
<input type="checkbox"/> raw (semipass)	<a href="#">2015.1.00217.S_uid_A002_Xadbc4c_X11b3.asdm.sdm.tar</a>	5 GiB	✓	
<input type="checkbox"/> raw (semipass)	<a href="#">2015.1.00217.S_uid_A002_Xaddcfa_X186.asdm.sdm.tar</a>	4 GiB	✓	
▶ <input type="checkbox"/> external	<a href="#">2015.1.00217.S_uid_A001_X2f7_X150_external_ari_l_001_of_001.tar</a>	196 GiB	✓	

- If you want to re-create calibrated Measurement Sets (MS) from raw data, download *readme*, *auxiliary*, and *raw*.

# CARTA: Cube Analysis and Rendering Tool for Astronomy



# ALMA Request Handler


























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Download Selected

☒ readme ☒ product ☒ auxiliary ☐ raw ☐ raw (semipass) ☐ external

Project / OUSet / Executionblock	File	Size	Accessible	Actions
▼  Request 1653827435974		6 GiB		
▼  Project 2015.1.00217.S				
▼  Science Goal OUS uid://A001/X2f7/X14c				
▼  Group OUS uid://A001/X2f7/X14d				
▼  Member OUS uid://A001/X2f7/X14e				
▶  SB 30doradu_c_06_TE				
▶  readme	member.uid_A001_X2f7_X14e.RE	14 KiB	✓	
▶  product	2015.1.00217.S_uid_A001_X2f7_X	171 MiB	✓	
▶  auxiliary	2015.1.00217.S_uid_A001_X2f7_X	117 MiB	✓	
▶  raw	2015.1.00217.S_uid_A002_Xb3d4	6 GiB	✓	
▶  external	2015.1.00217.S_uid_A001_X2f7_X	6 GiB	✓	
▼  Member OUS uid://A001/X2f7/X150				
▶  SB 30doradu_c_06_TC				
▶  readme	member.uid_A001_X2f7_X150.RE	16 KiB	✓	
▶  product	2015.1.00217.S_uid_A001_X2f7_X	92 MiB	✓	
▶  auxiliary	2015.1.00217.S_uid_A001_X2f7_X	733 MiB	✓	
▶  raw	2015.1.00217.S_uid_A002_Xadc7	7 GiB	✓	
▶  raw	2015.1.00217.S_uid_A002_Xadc7	6 GiB	✓	
▶  raw	2015.1.00217.S_uid_A002_Xadc7	7 GiB	✓	
▶  raw	2015.1.00217.S_uid_A002_Xadc734_X3b2.asdm.sdm.tar	6 GiB	✓	
▶  raw	2015.1.00217.S_uid_A002_Xadc734_X4bb.asdm.sdm.tar	6 GiB	✓	
▶  raw	2015.1.00217.S_uid_A002_Xaddcfa_X3e4.asdm.sdm.tar	4 GiB	✓	
▶  raw (semipass)	2015.1.00217.S_uid_A002_Xadbc4c_X11b3.asdm.sdm.tar	5 GiB	✓	
▶  raw (semipass)	2015.1.00217.S_uid_A002_Xaddcfa_X186.asdm.sdm.tar	4 GiB	✓	
▶  external	2015.1.00217.S_uid_A001_X2f7_X150_external_arl_1_001_of_001.tar	186 GiB	✓	

Choose one of the following download methods:

## Download Script

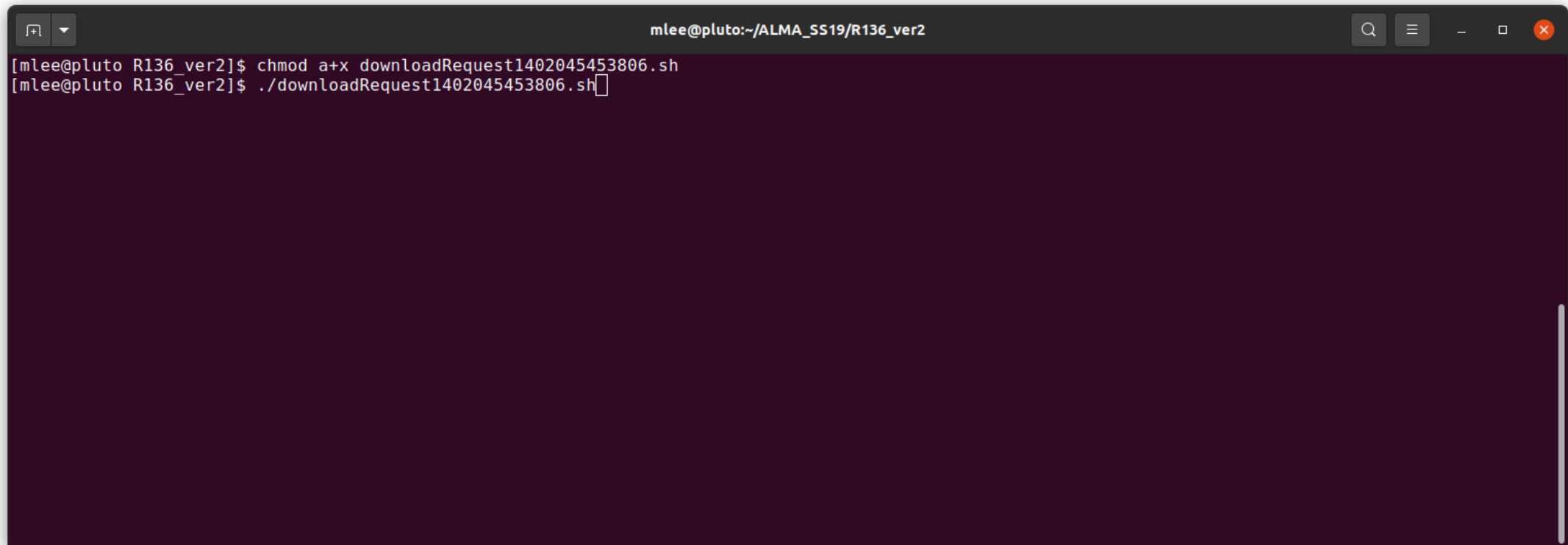
The downloads are scripted for you. You just need to execute the script from the command line, after making it executable by typing `chmod u+x download*.sh`

## 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*.

A terminal window with a dark gray title bar and a dark purple background. The title bar contains a window control icon on the left, the text 'mlee@pluto:~/ALMA\_SS19/R136\_ver2' in the center, and search, menu, and window control icons on the right. The terminal shows two lines of text: '[mlee@pluto R136\_ver2]\$ chmod a+x downloadRequest1402045453806.sh' and '[mlee@pluto R136\_ver2]\$ ./downloadRequest1402045453806.sh' with a cursor at the end of the second line. A vertical scrollbar is on the right side.

```
mlee@pluto:~/ALMA_SS19/R136_ver2
[mlee@pluto R136_ver2]$ chmod a+x downloadRequest1402045453806.sh
[mlee@pluto R136_ver2]$ ./downloadRequest1402045453806.sh
```

```
mlee@pluto:~/ALMA_SS19/R136_ver2
[mlee@pluto R136_ver2]$ chmod a+x downloadRequest1402045453806.sh
[mlee@pluto R136_ver2]$ ./downloadRequest1402045453806.sh
```

```
mlee@pluto:~/ALMA_SS19/R136_ver2
[mlee@pluto R136_ver2]$ ls
2015.1.00217.S
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
downloadRequest1402045453806.sh
[mlee@pluto R136_ver2]$
```

```
mlee@pluto:~/ALMA_SS19/R136_ver2

[mlee@pluto R136_ver2]$ chmod a+x downloadRequest1402045453806.sh
[mlee@pluto R136_ver2]$ ./downloadRequest1402045453806.sh

mlee@pluto:~/ALMA_SS19/R136_ver2

[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$

mlee@pluto:~/ALMA_SS19/R136_ver2/2015.1.00217.S/science_goal.uid__A001_X2f7_X14c/group.uid__A001_X2f7_X14d/member.uid__A001_X2f7_X14e

[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$ cd 2015.1.00217.S/
[mlee@pluto 2015.1.00217.S]$ ls
science_goal.uid__A001_X2f7_X14c
[mlee@pluto 2015.1.00217.S]$ cd science_goal.uid__A001_X2f7_X14c/
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ ls
group.uid__A001_X2f7_X14d
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ cd group.uid__A001_X2f7_X14d/
[mlee@pluto group.uid__A001_X2f7_X14d]$ ls
member.uid__A001_X2f7_X14e member.uid__A001_X2f7_X150
[mlee@pluto group.uid__A001_X2f7_X14d]$ cd member.uid__A001_X2f7_X14e/
[mlee@pluto member.uid__A001_X2f7_X14e]$ ls
calibrated calibration log product qa raw README script
[mlee@pluto member.uid__A001_X2f7_X14e]$
```

```
mlee@pluto:~/ALMA_SS19/R136_ver2
[mlee@pluto R136_ver2]$ chmod a+x downloadRequest1402045453806.sh
[mlee@pluto R136_ver2]$ ./downloadRequest1402045453806.sh

mlee@pluto:~/ALMA_SS19/R136_ver2
[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$

mlee@pluto:~/ALMA_SS19/R136_ver2/2015.1.00217.S/science_goal.uid__A001_X2f7_X14c/group.uid__A001_X2f7_X14d/member.uid__A001_X2f7_X14e
[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$ cd 2015.1.00217.S/
[mlee@pluto 2015.1.00217.S]$ ls
science_goal.uid__A001_X2f7_X14c
[mlee@pluto 2015.1.00217.S]$ cd science_goal.uid__A001_X2f7_X14c/
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ ls
group.uid__A001_X2f7_X14d
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ cd group.uid__A001_X2f7_X14d/
[mlee@pluto group.uid__A001_X2f7_X14d]$ ls
member.uid__A001_X2f7_X14e member.uid__A001_X2f7_X150
[mlee@pluto group.uid__A001_X2f7_X14d]$ cd member.uid__A001_X2f7_X14e/
[mlee@pluto member.uid__A001_X2f7_X14e]$ ls
calibrated calibration log product qa raw README script
[mlee@pluto member.uid__A001_X2f7_X14e]$
```

Calibration and flag tables

```
mlee@pluto:~/ALMA_SS19/R136_ver2

[mlee@pluto R136_ver2]$ chmod a+x downloadRequest1402045453806.sh
[mlee@pluto R136_ver2]$ ./downloadRequest1402045453806.sh

mlee@pluto:~/ALMA_SS19/R136_ver2

[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$

mlee@pluto:~/ALMA_SS19/R136_ver2/2015.1.00217.S/science_goal.uid__A001_X2f7_X14c/group.uid__A001_X2f7_X14d/member.uid__A001_X2f7_X14e

[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$ cd 2015.1.00217.S/
[mlee@pluto 2015.1.00217.S]$ ls
science_goal.uid__A001_X2f7_X14c
[mlee@pluto 2015.1.00217.S]$ cd science_goal.uid__A001_X2f7_X14c/
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ ls
group.uid__A001_X2f7_X14d
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ cd group.uid__A001_X2f7_X14d/
[mlee@pluto group.uid__A001_X2f7_X14d]$ ls
member.uid__A001_X2f7_X14e member.uid__A001_X2f7_X150
[mlee@pluto group.uid__A001_X2f7_X14d]$ cd member.uid__A001_X2f7_X14e/
[mlee@pluto member.uid__A001_X2f7_X14e]$ ls
calibrated calibration log product qa raw README script
[mlee@pluto member.uid__A001_X2f7_X14e]$
```

CASA logs from running the pipeline/reduction scripts

```
mlee@pluto:~/ALMA_SS19/R136_ver2

[mlee@pluto R136_ver2]$ chmod a+x downloadRequest1402045453806.sh
[mlee@pluto R136_ver2]$ ./downloadRequest1402045453806.sh

mlee@pluto:~/ALMA_SS19/R136_ver2

[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$

mlee@pluto:~/ALMA_SS19/R136_ver2/2015.1.00217.S/science_goal.uid__A001_X2f7_X14c/group.uid__A001_X2f7_X14d/member.uid__A001_X2f7_X14e

[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$ cd 2015.1.00217.S/
[mlee@pluto 2015.1.00217.S]$ ls
science_goal.uid__A001_X2f7_X14c
[mlee@pluto 2015.1.00217.S]$ cd science_goal.uid__A001_X2f7_X14c/
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ ls
group.uid__A001_X2f7_X14d
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ cd group.uid__A001_X2f7_X14d/
[mlee@pluto group.uid__A001_X2f7_X14d]$ ls
member.uid__A001_X2f7_X14e member.uid__A001_X2f7_X150
[mlee@pluto group.uid__A001_X2f7_X14d]$ cd member.uid__A001_X2f7_X14e/
[mlee@pluto member.uid__A001_X2f7_X14e]$ ls
calibrated calibration log product qa raw README script
[mlee@pluto member.uid__A001_X2f7_X14e]$
```

FITS images



```
mlee@pluto:~/ALMA_SS19/R136_ver2

[mlee@pluto R136_ver2]$ chmod a+x downloadRequest1402045453806.sh
[mlee@pluto R136_ver2]$ ./downloadRequest1402045453806.sh

mlee@pluto:~/ALMA_SS19/R136_ver2

[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$

mlee@pluto:~/ALMA_SS19/R136_ver2/2015.1.00217.S/science_goal.uid__A001_X2f7_X14c/group.uid__A001_X2f7_X14d/member.uid__A001_X2f7_X14e

[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$ cd 2015.1.00217.S/
[mlee@pluto 2015.1.00217.S]$ ls
science_goal.uid__A001_X2f7_X14c
[mlee@pluto 2015.1.00217.S]$ cd science_goal.uid__A001_X2f7_X14c/
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ ls
group.uid__A001_X2f7_X14d
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ cd group.uid__A001_X2f7_X14d/
[mlee@pluto group.uid__A001_X2f7_X14d]$ ls
member.uid__A001_X2f7_X14e member.uid__A001_X2f7_X150
[mlee@pluto group.uid__A001_X2f7_X14d]$ cd member.uid__A001_X2f7_X14e/
[mlee@pluto member.uid__A001_X2f7_X14e]$ ls
calibrated calibration log product qa raw README script
[mlee@pluto member.uid__A001_X2f7_X14e]$
```

QA2 reports and pipeline weblog



```
mlee@pluto:~/ALMA_SS19/R136_ver2

[mlee@pluto R136_ver2]$ chmod a+x downloadRequest1402045453806.sh
[mlee@pluto R136_ver2]$ ./downloadRequest1402045453806.sh

mlee@pluto:~/ALMA_SS19/R136_ver2

[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$

mlee@pluto:~/ALMA_SS19/R136_ver2/2015.1.00217.S/science_goal.uid__A001_X2f7_X14c/group.uid__A001_X2f7_X14d/member.uid__A001_X2f7_X14e

[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$ cd 2015.1.00217.S/
[mlee@pluto 2015.1.00217.S]$ ls
science_goal.uid__A001_X2f7_X14c
[mlee@pluto 2015.1.00217.S]$ cd science_goal.uid__A001_X2f7_X14c/
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ ls
group.uid__A001_X2f7_X14d
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ cd group.uid__A001_X2f7_X14d/
[mlee@pluto group.uid__A001_X2f7_X14d]$ ls
member.uid__A001_X2f7_X14e member.uid__A001_X2f7_X150
[mlee@pluto group.uid__A001_X2f7_X14d]$ cd member.uid__A001_X2f7_X14e/
[mlee@pluto member.uid__A001_X2f7_X14e]$ ls
calibrated calibration log product qa raw README script
[mlee@pluto member.uid__A001_X2f7_X14e]$
```

Calibration/imaging scripts

```
mlee@pluto:~/ALMA_SS19/R136_ver2

[mlee@pluto R136_ver2]$ chmod a+x downloadRequest1402045453806.sh
[mlee@pluto R136_ver2]$ ./downloadRequest1402045453806.sh

mlee@pluto:~/ALMA_SS19/R136_ver2

[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$

mlee@pluto:~/ALMA_SS19/R136_ver2/2015.1.00217.S/science_goal.uid__A001_X2f7_X14c/group.uid__A001_X2f7_X14d/member.uid__A001_X2f7_X14e

[mlee@pluto R136_ver2]$ ls
2015.1.00217.S                               2015.1.00217.S_uid__A002_Xadc734_X3b2.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X14e_001_of_001.tar 2015.1.00217.S_uid__A002_Xadc734_X4bb.asdm.sdm.tar
2015.1.00217.S_uid__A001_X2f7_X150_001_of_001.tar 2015.1.00217.S_uid__A002_Xaddcfa_X186.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadbc4c_X11b3.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xaddcfa_X3e4.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X285.asdm.sdm.tar 2015.1.00217.S_uid__A002_Xb3d48f_X3be9.asdm.sdm.tar
2015.1.00217.S_uid__A002_Xadc734_X35b9.asdm.sdm.tar downloadRequest1402045453806.sh
2015.1.00217.S_uid__A002_Xadc734_X391c.asdm.sdm.tar
[mlee@pluto R136_ver2]$ cd 2015.1.00217.S/
[mlee@pluto 2015.1.00217.S]$ ls
science_goal.uid__A001_X2f7_X14c
[mlee@pluto 2015.1.00217.S]$ cd science_goal.uid__A001_X2f7_X14c/
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ ls
group.uid__A001_X2f7_X14d
[mlee@pluto science_goal.uid__A001_X2f7_X14c]$ cd group.uid__A001_X2f7_X14d/
[mlee@pluto group.uid__A001_X2f7_X14d]$ ls
member.uid__A001_X2f7_X14e member.uid__A001_X2f7_X150
[mlee@pluto group.uid__A001_X2f7_X14d]$ cd member.uid__A001_X2f7_X14e/
[mlee@pluto member.uid__A001_X2f7_X14e]$ ls
calibrated calibration log product qa raw README script
[mlee@pluto member.uid__A001_X2f7_X14e]$
```

Calibration/imaging scripts

Want to know details on calibration/imaging?  
Join us for ALMA Summer School!

\* NAOJ will deliver calibrated MS data for old Cycle ( $< 5$ )...  
Just contact us!