The ALMA Science Archive

George Bendo

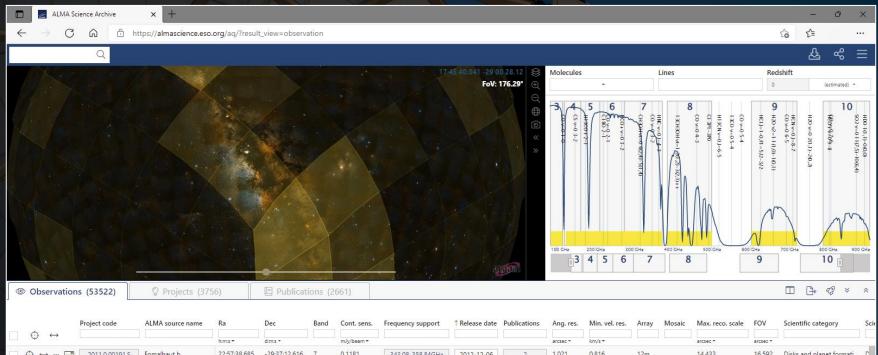
UK ALMA Regional Centre Node Jodrell Bank Centre for Astrophysics The University of Manchester

The ALMA Science Archive was updated within the past year. The website is <u>https://almascience.eso.org/aq/</u>. The default view shows the entire contents of the archive.

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	0	\leftrightarrow	📰	2011.0.00191.S	Fomalhaut b	22:57:38.685	-29:37:12.616		0.1181	343.08358.84GHz	2012-12-06	2	1.021	0.816	12m	14.433	16.592	Disks and plar		
	0	\leftrightarrow	📰	2011.0.00131.S	R Scl	01:26:58.079	-32:32:36.424	7	0.9115	330.25346.11GHz	2012-12-06	5	1.241	0.846		saic 14.979	62.007	Stars and stell		
	0	\leftrightarrow	📰	2011.0.00101.S	GRB021004	00:26:54.680	+18:55:41.600		0.1136	337.01353.00GHz	2012-12-06	2	1.322	26.541	12m	14.682	16.878	Active galaxie		S
	Φ	\leftrightarrow	··· 📰	2011.0.00397.S	J035448.24-330827.2	03:54:48.240	-33:08:27.200		0.4848	337.03353.01GHz	2012-12-20	3	1.372	26.541	12m	10.183	16.877	Active galaxie		Α
	Φ	\leftrightarrow	📰	2011.0.00397.S	J041754.10-281655.9	04:17:54.100		7	0.4848	337.02353.01GHz	2012-12-20	3	1.400	26.541	12m	10.521	16.877	Active galaxie		Α
	0	\leftrightarrow	📰	2011.0.00397.5	J063027.81-212058.6	06:30:27.810	-21:20:58.600	7	0.5346	337.01352.99GHz	2012-12-20	3	1.279	26.541	12m	8.285	<mark>16.878</mark>	Active galaxie		Α
	0	\leftrightarrow	📰	2011.0.00397.S	J061200.23-062209.6	06:12:00.230	-06:22:09.600	7	0.5346	337.00352.99GHz	2012-12-20	3	1.303	26.541	12m	8.827	<mark>16.878</mark>	Active galaxie		Α
	Ŷ	\leftrightarrow		2011.0.00397.S	J054930.06-373940.1	05:49:30.060	-37:39:40.100	7	0.4848	337.02353.00GHz	2012-12-20	3	1.388	26.541	12m	13.892	16.878	Active galaxie		A
	0	\leftrightarrow		2011.0.00397.S	J070257.20-280842.3	07:02:57.200	-28:08:42.300	7	0.5346	337.01352.99GHz	2012-12-20	3	1.272	26.541	12m	8.044	16.878	Active galaxie	s	А

The interface has three sections:

- The sky viewer
- The spectral viewer
- The results table



	$\bigoplus \ \leftrightarrow \ \cdots \ \blacksquare$	2011.0.00191.S	Fomalhaut b	22:57:38.685	-29:37:12.616	7	0.1181	343.08358.84GHz	2012-12-06	2	1.021	0.816	12m	14.433	16.592	Disks and planet formati	D
	$\bigcirc \leftrightarrow \cdots \blacksquare$	2011.0.00131.S	R Scl	01:26:58.079	-32:32:36.424	7	0.9115	330.25346.11GHz	2012-12-06	5	1.241	0.846	12m mosaic	14.979	62.007	Stars and stellar evolution	А
	$\bigcirc \leftrightarrow \cdots \blacksquare$	2011.0.00101.S	GRB021004	00:26:54.680	+18:55:41.600	7	0.1136	337.01353.00GHz	2012-12-06	2	1.322	26.541	12m	14.682	16.878	Active galaxies	S
	$\bigcirc \leftrightarrow \cdots \blacksquare$	2011.0.00397.S	J035448.24-330827.2	03:54:48.240	-33:08:27.200	7	0.4848	337.03353.01GHz	2012-12-20	3	1.372	26.541	12m	10.183	16.877	Active galaxies	А
	$\bigcirc \leftrightarrow \cdots \blacksquare$	2011.0.00397.S	J041754.10-281655.9	04:17:54.100	-28:16:55.900	7	0.4848	337.02353.01GHz	2012-12-20	3	1.400	26.541	12m	10.521	16.877	Active galaxies	А
	$\bigcirc \leftrightarrow \cdots \blacksquare$	2011.0.00397.S	J063027.81-212058.6	06:30:27.8 <mark>1</mark> 0	-21:20:58.600	7	0.5346	337.01352.99GHz	2012-12-20	3	1.279	26.541	12m	8.285	16.878	Active galaxies	А
	$\bigcirc \leftrightarrow \cdots \blacksquare$	2011.0.00397.S	J061200.23-062209.6	06:12:00.230	-06:22:0 <mark>9.</mark> 600	7	0.5346	337.00352.99GHz	2012-12-20	3	1.303	26.541	12m	8.827	16.878	Active galaxies	А
	$\bigcirc \leftrightarrow \cdots \blacksquare$	2011.0.00397.S	J054930.06-373940.1	05:49:30.060	-37:39:40.100	7	0.4848	337.02353.00GHz	2012-12-20	3	1.388	26.541	12m	13.892	16.878	Active galaxies	Α
\square	$ \leftrightarrow \cdots \blacksquare$	2011.0.00397.S	J070257.20-280842.3	07:02:57.200	-28:08:42.300	7	0.5346	337.01352.99GHz	2012-12-20	3	1.272	26.541	12m	8.044	16.878	Active galaxies	А

The results table actually has three tabs:

(Why) Is CenA a source of Ultra High Energy Cosmic Rays: Shock acceleration, jet and UHECR composition

Probing the Molecular Outflows of the Coldest Known Object in the Universe: The Boomerang Nebula

The Origin of the Destroyed Minor Planet at G29-38: a Main Belt or Kuiper Belt Analog?

More than LESS: The first fully-identified submillimetre survey

Probing the vertical structure of Saturn's storm with ALMA

Piecing the shell together: ALMA and the detached shell around R Scl

Shedding Light on Distant Starburst Galaxies Hosting Gamma-ray Bursts v9

- Observation
- Project
- Publication

2011.0.00454.S

2011.0.00851.S

2011.0.00294.S

2011.0.00510.S

2011.0.00131.S

2011.0.00808.S

2011.0.00101.S

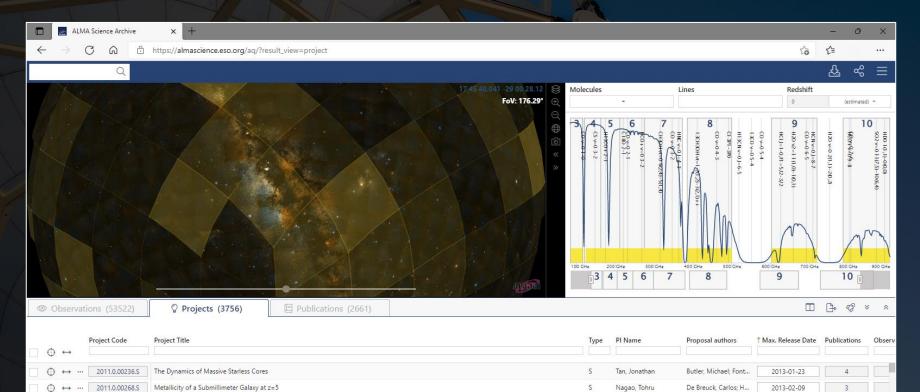
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Smith, Rory; Finlez, C ...

Greaves, Jane; Bonso...

Rix, Hans-Walter; Ch ...

Nyman, Lars-Ake; VI...

Ramstedt, Sofia; Pala...

Moreno, Raphael; Fo...

Huang, Kuiyun; Chen...

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Nagar, Neil

Farihi, Jay

Smail, Ian

Sahai, Raghvendra

Maercker, Matthias

Cavalie, Thibault

Wang, Wei-Hao

2013-02-14

2013-02-14

2013-02-15

2013-03-13

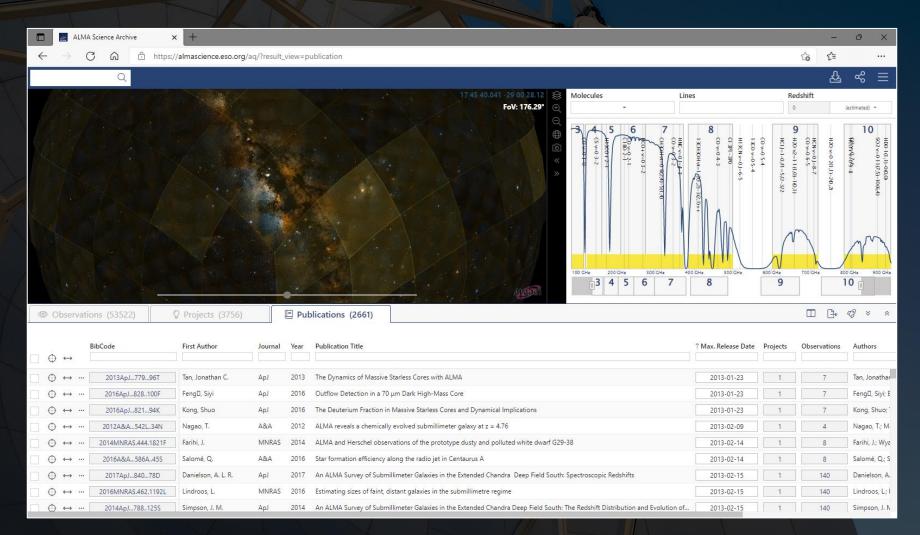
2013-03-29

2013-04-23

2013-05-01

The results table actually has three tabs:

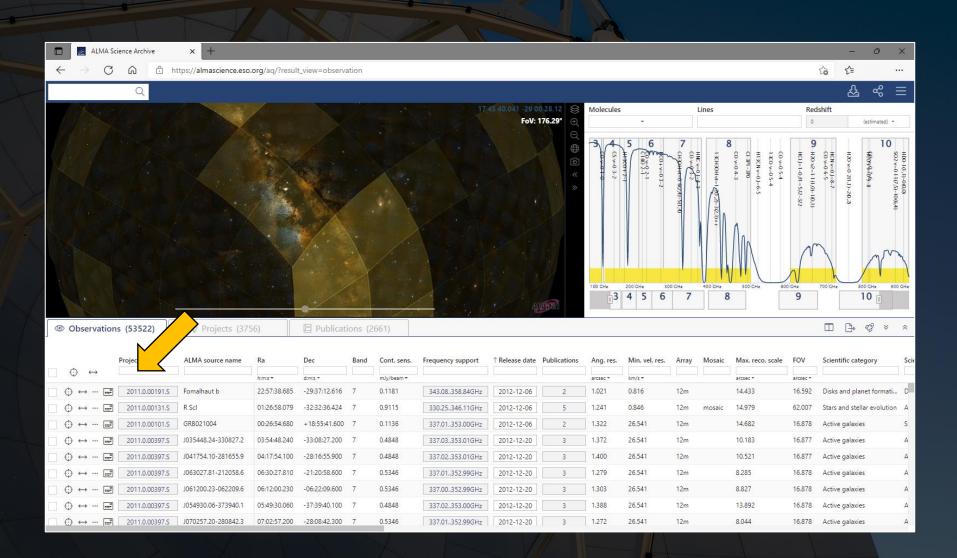
- Observation
- Project
- Publication



Searches can be done in one of two ways. The best way to start a search, especially for a single object, is to use the search menu that is displayed when hovering over the rectangle with the magnifying glass.

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	oject 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 ca	tegory	Sci
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↔ ↔ … 🖃	2011.0.00191.S	Fomalhaut b	22:57:38.685	-29:37:12.616	7	0.1181	343.08358.84GHz	2012-12-06	2	1.021	0.816	12m	14.433	16.592	Disks and pl	anet forma	ti D
$\bigcirc \leftrightarrow \cdots \blacksquare$	2011.0.00131.S	R Scl	01:26:58.079	-32:32:36.424	7	0.9115	330.25346.11GHz	2012-12-06	5	1.241	0.846	12m mosaic	14.979	62.007	Stars and ste	ellar evoluti	on A
$\bigoplus \leftrightarrow \cdots \blacksquare$	2011.0.00101.S	GRB021004	00:26:54.680	+18:55:41.600	7	0.1136	337.01353.00GHz	2012-12-06	2	1.322	26.541	12m	14.682	16.878	Active galax	ies	S
	2011.0.00397.S	J035448.24-330827.2	03:54:48.240	-33:08:27.200	7	0.4848	337.03353.01GHz	2012-12-20	3	1.372	26.541	12m	10.183	16.877	Active galax	ies	А
	2011.0.00397.S	J041754.10-281655.9	04:17:54.100	-28:16:55.900	7	0.4848	337.02353.01GHz	2012-12-20	3	1.400	26.541	12m	10.521	16.877	Active galax	ies	А
	2011.0.00397.S	J063027.81-212058.6	06:30:27.810	-21:20:58.600	7	0.5346	337.01352.99GHz	2012-12-20	3	1.279	26.541	12m	8.285	16.878	Active galax	ies	А
	2011.0.00397.S	J061200.23-062209.6	06:12:00.230	-06:22:09.600	7	0.5346	337.00352.99GHz	2012-12-20	3	1.303	26.541	12m	8.827	16.878	Active galax	ies	А
	2011.0.00397.S	J054930.06-373940.1	05:49:30.060	-37:39:40.100	7	0.4848	337.02353.00GHz	2012-12-20	3	1.388	26.541	12m	13.892	16.878	Active galax	ies	А
	2011.0.00397.S	J070257.20-280842.3	07:02:57.200	-28:08:42.300	7	0.5346	337.01352.99GHz	2012-12-20	3	1.272	26.541	12m	8.044	16.878	Active galax		А
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The other method is to type in search criteria in the entry fields above each column in the results table. This can also be done after initially setting up a search using the search menu.



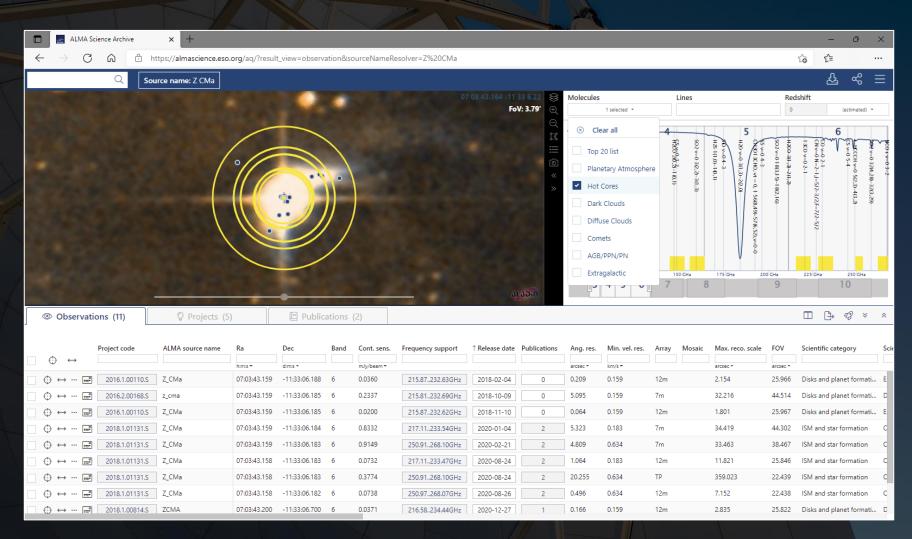
When the number of results in the results table changes, the map and spectrum panels will automatically adjust to show the observed fields and spectra in more detail.

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	2016.1.00110.S	Z_CMa	07:03:43.159	-11:33:06.188	6	0.0360	215.87232.63GHz	2018-02-04	0	0.209	0.159	12m	2.154	25.966	Disks and pla	net formati	E
	2016.2.00168.S	z_cma	07:03:43.159	-11:33:06.185	6	0.2337	215.81232.69GHz	2018-10-09	0	5.095	0.159	7m	32.216	44.514	Disks and pla	net formati	D
	2016.1.00110.S	Z_CMa	07:03:43.159	-11:33:06.185	6	0.0200	215.87232.62GHz	2018-11-10	0	0.064	0.159	12m	1.801	25.967	Disks and pla	net formati	E
	2018.1.01131.S	Z_CMa	07:03:43.159	-11:33:06.184	6	0.8332	217.11233.54GHz	2020-01-04	2	5.323	0.183	7m	34.419	44.302	ISM and star f	formation	с
	2018.1.01131.S	Z_CMa	07:03:43.159	-11:33:06.183	6	0.9149	250.91268.10GHz	2020-02-21	2	4.809	0.634	7m	33.463	38.467	ISM and star	formation	с
	2018.1.01131.S	Z_CMa	07:03:43.158	-11:33:06.183	6	0.0732	217.11233.47GHz	2020-08-24	2	1.064	0.183	12m	11.821	25.846	ISM and star f	formation	С
	2018.1.01131.S	Z_CMa	07:03:43.158	-11:33:06.183	6	0.3774	250.91268.10GHz	2020-08-24	2	20.255	0.634	ТР	359.023	22.439	ISM and star f	formation	С
	2018.1.01131.S	Z_CMa	07:03:43.158	-11:33:06.182	6	0.0738	250.97268.07GHz	2020-08-26	2	0.496	0.634	12m	7.152	22.438	ISM and star	formation	С

The map display can be adjusted to display different wavebands. The spectrum can be adjusted to show broader or narrower frequency ranges, to show different spectral lines, and to show those lines at different redshifts.

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() ↔ … 📰 2016.1.00110.S	Z_CMa	07:03:43.159	-11:33:06.188	6	0.0360	215.87232.63GHz	2018-02-04	0	0.209	0.159 12r	n	2.154	25.966	Disks and plar	et format	i E
() ↔ … 📰 2016.2.00168.S	z_cma	07:03:43.159	-11:33:06.185	6	0.2337	215.81232.69GHz	2018-10-09	0	5.095	0.159 7m		32.216	44.514	Disks and plar	et format	i D
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⊖ ↔ ··· 🖃 2018.1.01131.S	Z_CMa	07:03:43.159	-11:33:06.183	6	0.9149	250.91268.10GHz	2020-02-21	2	4.809	0.634 7m		33.463	38.467	ISM and star f	ormation	с
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⊖ ↔ ··· 🖃 2018.1.01131.S	Z_CMa	07:03:43.158	-11:33:06.182	6	0.0738	250.97268.07GHz	2020-08-26	2	0.496	0.634 12r	n	7.152	22.438	ISM and star f	ormation	С
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The map display can be adjusted to display different wavebands. The spectrum can be adjusted to show broader or narrower frequency ranges, to show different spectral lines, and to show those lines at different redshifts.



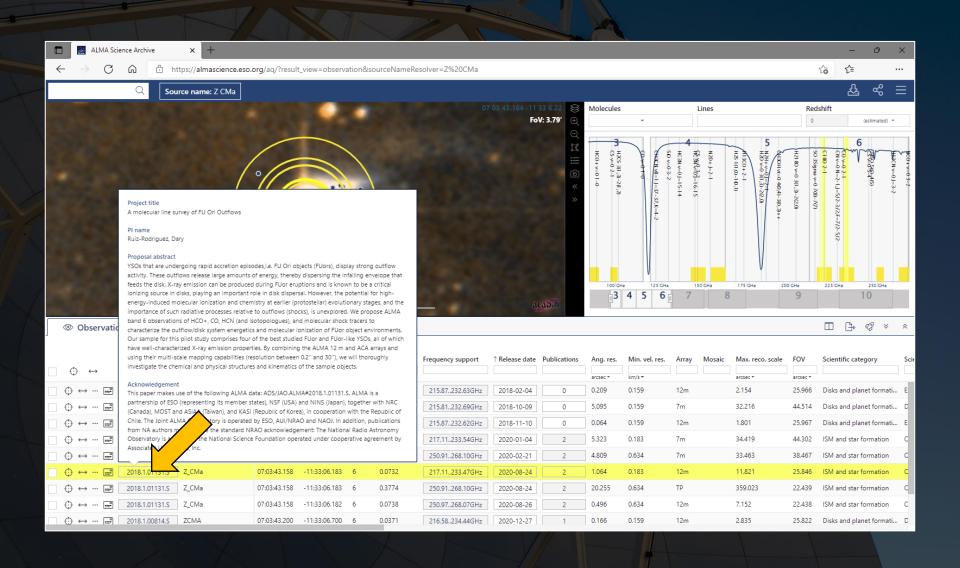
The map display can be adjusted to display different wavebands. The spectrum can be adjusted to show broader or narrower frequency ranges, to show different spectral lines, and to show those lines at different redshifts.

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• •	$\leftrightarrow \cdots$	2016.1.00110.S	Z_CMa	07:03:43.159	-11:33:06.185	6	0.0200	215.87232.62GHz	2018-11-10	0	0.064	0.159	12m	1.801	25.967	Disks and pla	net formati.	E
0	$\leftrightarrow \cdots$	2019.1.01144.S	ZCMa	07:03:43.164	-11:33:06.220		0.0431	145.06160.94GHz	2022-09-08	0	0.056	2.128	12m	1.095		Disks and pla		D
•	↔	2018.1.01131.S	Z_CMa	07:03:43.158	-11:33:06.182		0.0738	250.97268.07GHz	2020-08-26	2	0.496	0.634	12m	7.152		ISM and star f	ormation	С
•	$\leftrightarrow \cdots \square$	2016.1.00110.S	Z_CMa	07:03:43.159	-11:33:06.188	6	0.0360	215.87232.63GHz	2018-02-04	0	0.209	0.159	12m	2.154		Disks and pla	net formati.	E
□ €	$\leftrightarrow \cdots \square$	2018.1.01131.S	Z_CMa	07:03:43.159	-11:33:06.183	6	0.9149	250.91268.10GHz	2020-02-21	2	4.809	0.634	7m	33.463	38.467	ISM and star	ormation	С
C C	$\leftrightarrow \cdots \square$	2016.2.00168.S	z_cma	07:03:43.159	-11:33:06.185	6	0.2337	215.81232.69GHz	2018-10-09	0	5.095	0.159	7m	32.216	44.514	Disks and pla	net formati.	D

The results from a search can be sorted by any column. The results can also be further filtered.

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Clicking on the checkbox next to an observation will select the data for download. The row will change to orange as will the field in the map panel and the frequency range in the spectral plot.

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	2018.1.01131.S	Z_CMa	07:03:43.159	-11:33:06.183	6	0.9149	250.91268.10GHz	2020-02-21	2	4.809	0.634	7m	33.463	38.467	ISM and star for	mation	с
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Proprietary data can be selected but cannot be downloaded. The checkbox will appear red when these data are selected. Other data (such as for programs where the observations are not yet complete or where the data are in QA3) cannot be selected.

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The interface has several other options as well. These include saving the search results (or a link to those results), accessing documentation, and adjusting the display.

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Selected data can be downloaded by clicking on the download icon at the top right. When request download is selected, this will open a new browser window or tab. If proprietary data were selected, a login screen will appear first.

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Each Member OUS (or SB) may have the following files available for download:

readme A text file with very basic information

product Final images and image cubes

auxiliary A file containing logs, quality assurance information, scripts, and calibration data

raw Raw visibility data

external Enhanced data products (including enhanced images or visibility data) created after the data delivery

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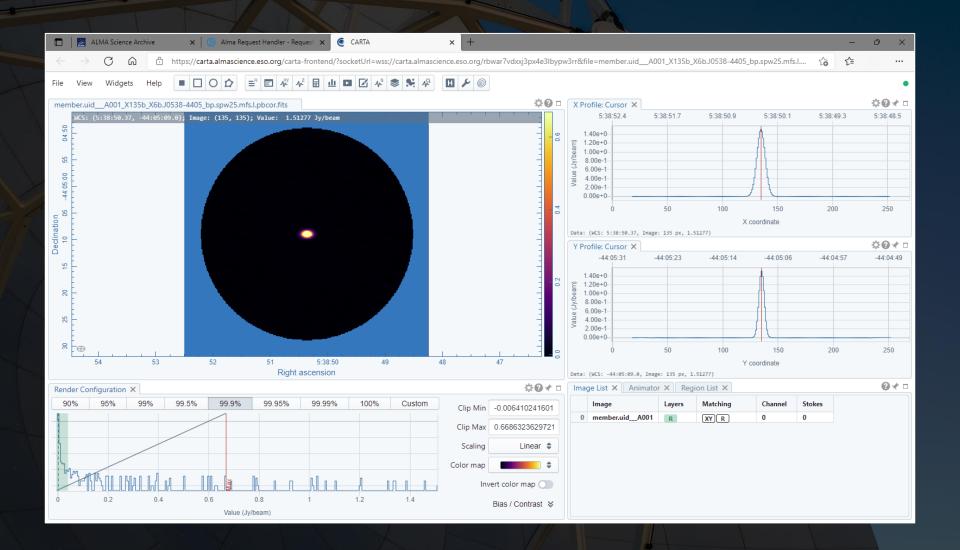
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It is also possible to preview individual images in the product tar file by clicking on the symbol with the C on the far right of the page. This will open a new page displaying the image using the CARTA interface.



Each file can be individually selected for download, or subsets of data can be selected for download. Proprietary data cannot be downloaded without logging in and without being delegate access to the data.

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When data download is started, two options are available.

- The download script can be executed in a Linux/Mac console to download data. The file must be made executable using chmod before doing this. When the file is executed, the data will be downloaded to the current directory.
 - If the script is interrupted, it is possible to restart the downloads from where they were stopped by restarting the script.
- The other download option is the file list. The file list is just a set of links directly to the data.
 - The individual results in the ALMA request handler page include links that can also be clicked on to download the data.