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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$\Box \Leftrightarrow \leftrightarrow \sim$	2011.0.00191.5	Fomalhaut b	22:57:38.685	-29:37:12.616	7	0.1181	343.077.358.839 GHz	2012-12-06	2	1.047	0.816	12m		10.640	16.592	Disks a
$\Box \ \oplus \ \leftrightarrow \ \sim$	2011.0.00131.5	R Scl	01:26:58.079	-32:32:36.424	7	0.9115	330.246_346.109 GHz	2012-12-06	5	1.043	0.846	12m	mosaic	11.517	62.007	Stars ar
$\Box \oplus \leftrightarrow \sim$	2011.0.00101.5	GRB021004	00:26:54.680	+18:55:41.600	7	0.1136	337.009.353.001 GHz	2012-12-06	2	1.107	26.541	12m		9.258	16.878	Active
$\Box \oplus \leftrightarrow \sim$	2011.0.00397.5	J035448.24-330827.2	03:54:48.240	-33:08:27.200	7	0.4848	337.026353.011 GHz	2012-12-20	3	1.128	26.541	12m		7.950	16.877	Active
$\Box \oplus \leftrightarrow \sim$	2011.0.00397.5	J041754.10-281655.9	04:17:54.100	-28:16:55.900	7	0.4848	337.023.353.008 GHz	2012-12-20	3	1.118	26.541	12m		7.842	16.877	Active
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$\Box \oplus \leftrightarrow \sim$	2011.0.00397.5	J063027.81-212058.6	06:30:27.810	-21:20:58.600	7	0.5346	337.007.352.992 GHz	2012-12-20	3	1.183	26.541	12m		8.015	16.878	Active
$\Box \oplus \leftrightarrow \sim$	2011.0.00397.5	J054930.06-373940.1	05:49:30.060	-37:39:40.100	7	0.4848	337.016.353.001 GHz	2012-12-20	3	1.156	26.541	12m		7.888	16.878	Active
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$\Box \oplus \leftrightarrow \sim$	2011.0.00397.5	J030427.53-310838.3	03:04:27.530	-31:08:38.300	7	0.4848	337.029.353.015 GHz	2012-12-20	(3)	1.142	26.541	12m		8.026	16.877	Active

The interface has three sections:

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

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The results table actually has three tabs:

- Observation
- Project
- Publication

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Project Code	Project Title	Туре	PI Name	Proposal authors	Publications	Observations	SB names
	The Dynamics of Massive Starless Cores	S	Tan, Jonathan	Butler, Michael; Fonta 2013-01-23	4	7	Project236_E
⊕ ↔ ~ 2011.0.00268.5	Metallicity of a Submillimeter Galaxy at z=5	S	Nagao, Tohru	De Breuck, Carlos; Ha 2013-02-09	3	4	LESS J0332-2
⊕ ↔ ~ 2011.0.00454.5	(Why) Is CenA a source of Ultra High Energy Cosmic Rays: Shock acceleration, jet and UHECR composition	S	Nagar, Neil	Smith, Rory; Finlez, C 2013-02-14	1	8	Band 6 CenA
⊕ ↔ ~ 2011.0.00851.5	The Origin of the Destroyed Minor Planet at G29-38: a Main Belt or Kuiper Belt Analog?	S	Farihi, Jay	Greaves, Jane; Bonsor 2013-02-14	1	8	G29-38 Band
⊕ ↔ ~ 2011.0.00294.5	More than LESS: The first fully-identified submillimetre survey	S	Smail, Ian	Rix, Hans-Walter; Cha 2013-02-15	20	140	Targets1-16,
⊕ ↔ ~ 2011.0.00510.5	Probing the Molecular Outflows of the Coldest Known Object in the Universe: The Boomerang Nebula	S	Sahai, Raghvendra	Nyman, Lars-Ake; Vle 2013-03-13	2	6	B3 1 SB of 1 ·
⊕ ↔ ~ 2011.0.00131.5	Piecing the shell together: ALMA and the detached shell around R Scl	S	Maercker, Matthias	Ramstedt, Sofia; Pala 2013-03-29	5	14	R Scl B3 Spec
⊕ ↔ ~ 2011.0.00808.5	Probing the vertical structure of Saturn's storm with ALMA	S	Cavalie, Thibault	Moreno, Raphael; Fo 2013-04-23	0	4	GROUP_1_SB
⊕ ↔ ~ 2011.0.00101.5	Shedding Light on Distant Starburst Galaxies Hosting Gamma-ray Bursts v9	S	Wang, Wei-Hao	Huang, Kuiyun; Chen 2013-05-01	2	8	GRB021004, (
	Constraining the Formation Mechanisms of Wide-Orbit Planets: The Case of Fomalhaut b v0.6	s	Boley, Aaron	Shabram, Megan; Cor 2013-05-16	(2)	9	Fomalhaut b

The results table actually has three tabs:

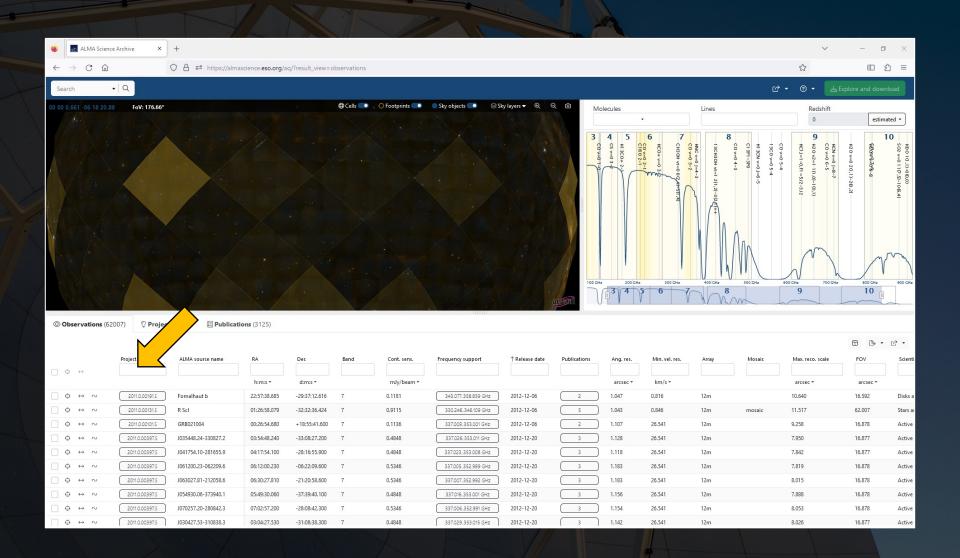
- Observation
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□ Φ ↔	bibCode	First Author	Journal	Year		↑ Max. Release Date Projects		Observations	Authors
□	2013ApJ_779_96T	Tan, Jonathan C.	ApJ	2013	The Dynamics of Massive Starless Cores with ALMA	2013-01-23 1		7	Tan, Jonathan C.; Kong, Shuo;
$\Box \ \oplus \ \leftrightarrow \ \sim$	2016ApJ_828_100F	Feng 📓, Siyi	ApJ	2016	Outflow Detection in a 70 µm Dark High-Mass Core	2013-01-23		7	Feng鬮, Siyi; Beuther, Henrik;
$\Box \ \oplus \ \leftrightarrow \ \sim$	2016ApJ_821_94K	Kong, Shuo	ApJ	2016	The Deuterium Fraction in Massive Starless Cores and Dynamical Implications	2013-01-23		7	Kong, Shuo; Tan, Jonathan C.;
$\Box \ \oplus \ \leftrightarrow \ \sim$	2012A&A_542L_34N	Nagao, T.	A&A	2012	ALMA reveals a chemically evolved submillimeter galaxy at z = 4.76	2013-02-09 1		4	Nagao, T.; Maiolino, R.; De Bre
$\Box \ \oplus \ \leftrightarrow \ \sim$	2016A&A586A455	Salomé, Q.	A&A	2016	Star formation efficiency along the radio jet in Centaurus A	2013-02-14 1		8	Salomé, Q.; Salomé, P.; Comb
$\Box \oplus \leftrightarrow \sim$	2014MNRA5.444.1821F	Farihi, J.	MNRAS	2014	ALMA and Herschel observations of the prototype dusty and polluted white dwarf G29-38	2013-02-14		8	Farihi, J.; Wyatt, M. C.; Greave
$\Box \ \oplus \ \leftrightarrow \ \sim$	2017ApJ_840_78D	Danielson, A. L. R.	ApJ	2017	An ALMA Survey of Submillimeter Galaxies in the Extended Chandra Deep Field South: Spectroscopic Redshifts	2013-02-15		140	Danielson, A. L. R.; Swinbank,
$\Box \ \oplus \ \leftrightarrow \ \sim$	2016MNRA5.462.1192L	Lindroos, L.	MNRAS	2016	Estimating sizes of faint, distant galaxies in the submillimetre regime	2013-02-15		140	Lindroos, L.; Knudsen, K. K.; Fr
□ ↔ ↔ ∾	2014ApJ7881255	Simpson, J. M.	ApJ	2014	An ALMA Survey of Submillimeter Galaxies in the Extended Chandra Deep Field South: The Redshift Distribution and Evolution	2013-02-15		140	Simpson, J. M.; Swinbank, A. M
$\Box \ \oplus \ \leftrightarrow \ \sim$	2016MNRAS.463_10M	MacKenzie, Todd P.	MNRAS	2016	SEDEBLEND: a new method for deblending spectral energy distributions in confused imaging	2013-02-15		140	MacKenzie, Todd P.; Scott, Do

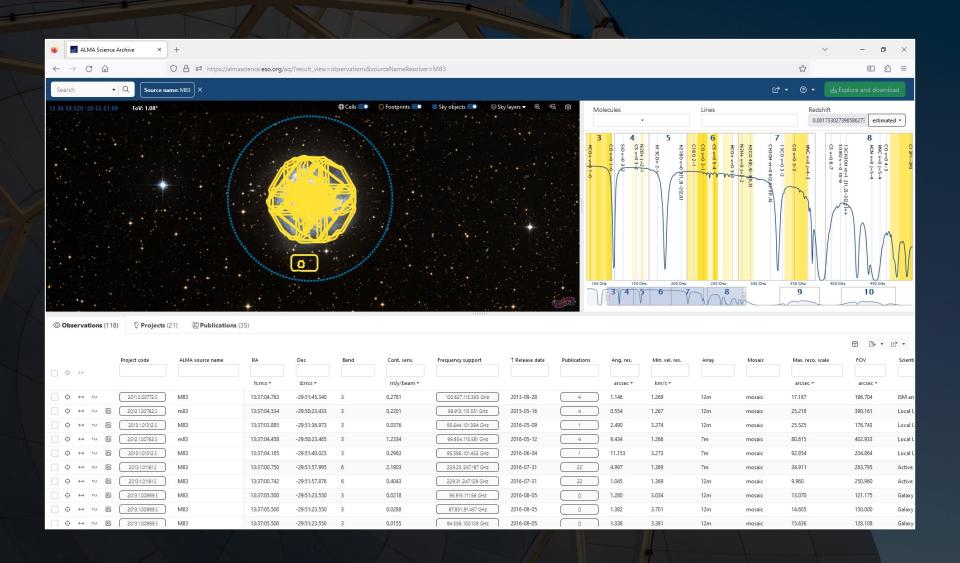
Searches can be done in one of two ways. The best way to start a search, especially for a single object, is to use the search menu that is displayed when hovering over the rectangle with the magnifying glass.

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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.



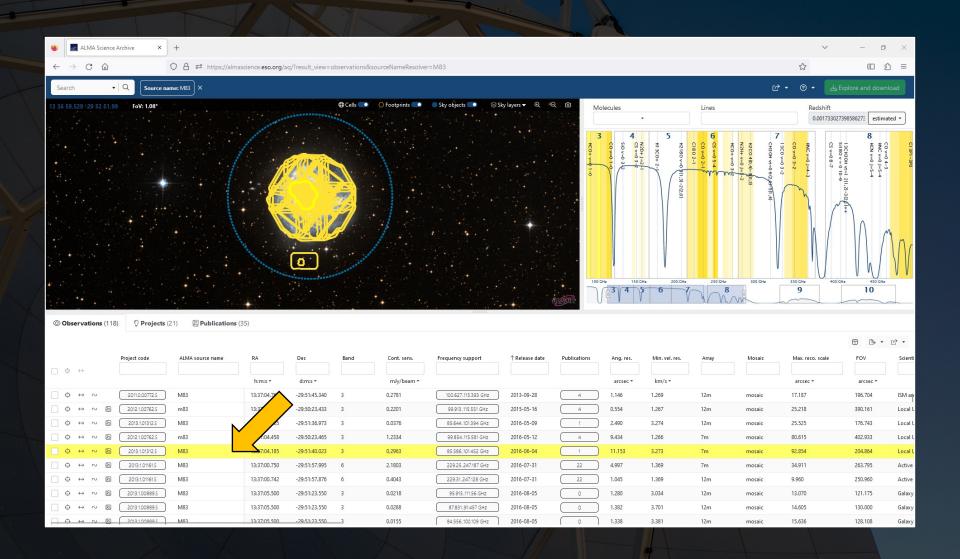
The map display can be adjusted to display different wavebands. The spectrum can be adjusted to show broader or narrower frequency ranges, to show different spectral lines, and to show those lines at different redshifts.

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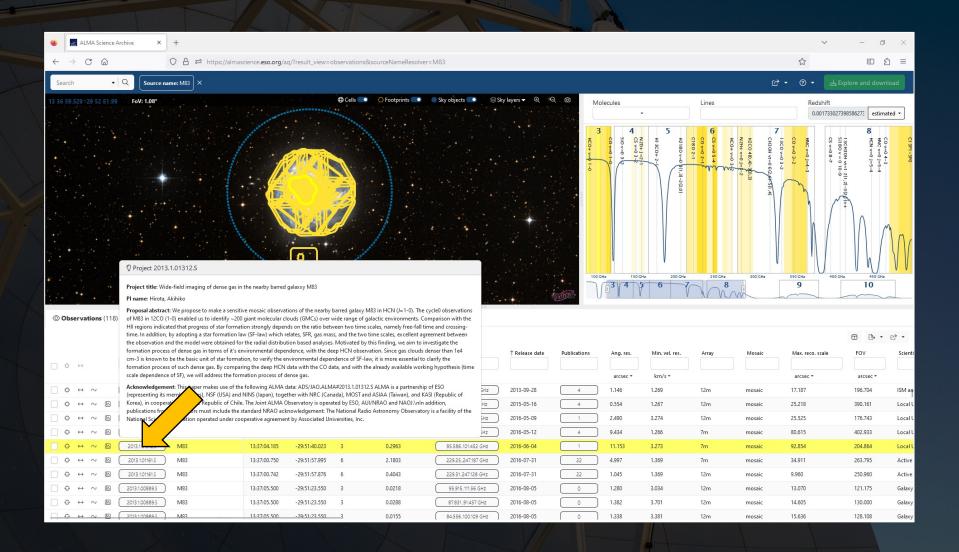
The map display can be adjusted to display different wavebands. The spectrum can be adjusted to show broader or narrower frequency ranges, to show different spectral lines, and to show those lines at different redshifts.

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⊕ ↔ ~ ⊠ 2013.1.00889.5 M83	13:37:05.500 -29:51:23.550	3	0.0288	87.831.91.457 GHz	2016-08-05	0	1.382	3.701	12m	mosaic	14.605	130.000	Galaxy
	13:37:05.500 -29:51:23.550	3 (0.0155	84.556100.109 GHz	2016-08-05		1.338	3.381	12m	mosaic	15.636	128.108	Galaxy

Hovering over an entry in the results table will highlight the row, the field in the map panel, and the frequency ranges in the spectrum panel.



Hovering the cursor over items in boxes will reveal a pop-up window with extra information.



Additionally, hovering over the box with the squares inside it on the left will reveal preview images, links to those images, and links to quality assurance information.

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		0	Polarita Array: 1	zions: XX YY 2m			19-10-10	1	1.359	0.318	12m	mosaic	26.711	566.026	Local L
		· · · · ·					19-10-10	1	1.377	0.318	12m		24.648	51.046	Local L
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Clicking on the C symbol will launch CARTA, which can be used to inspect the data in more detail and even make measurements.

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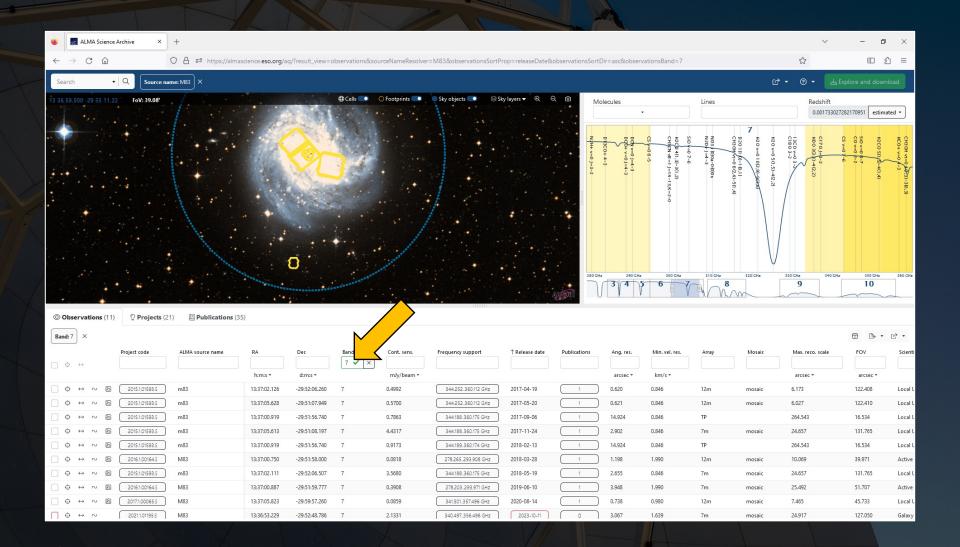
Clicking on the C symbol will launch CARTA, which can be used to inspect the data in more detail and even make measurements.

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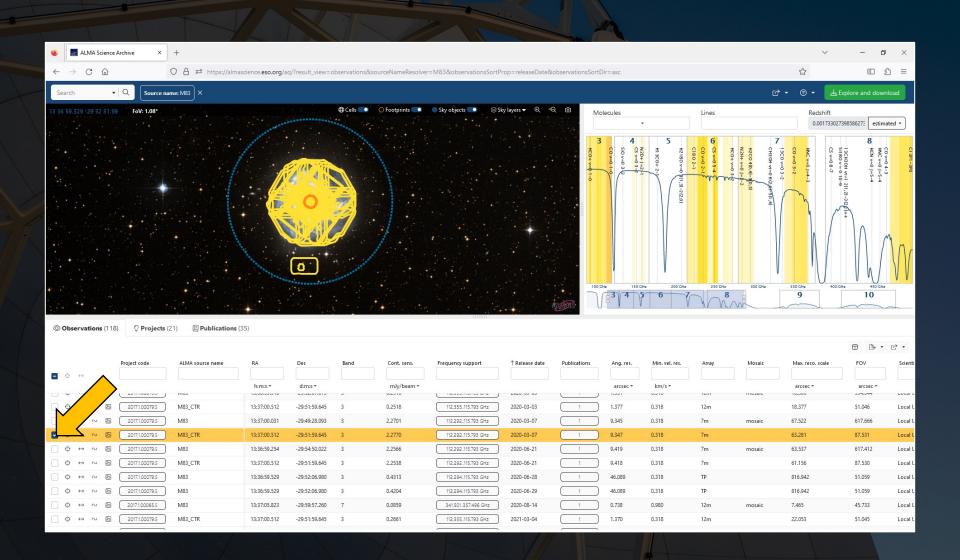
The results from a search can be sorted by any column. The results can also be further filtered.

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



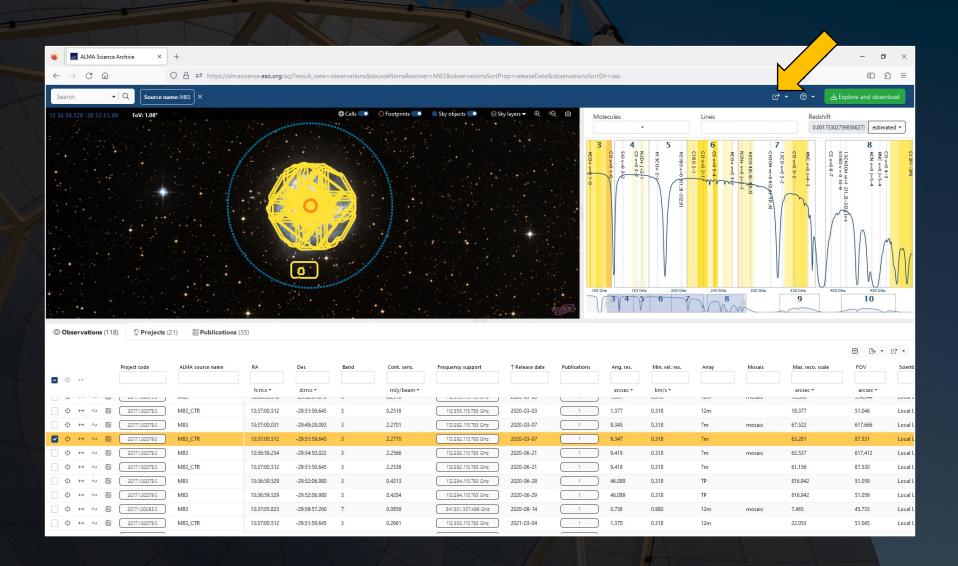
Clicking on the checkbox next to an observation will select the data for download. The row will change to orange as will the field in the map panel and the frequency range in the spectral plot.



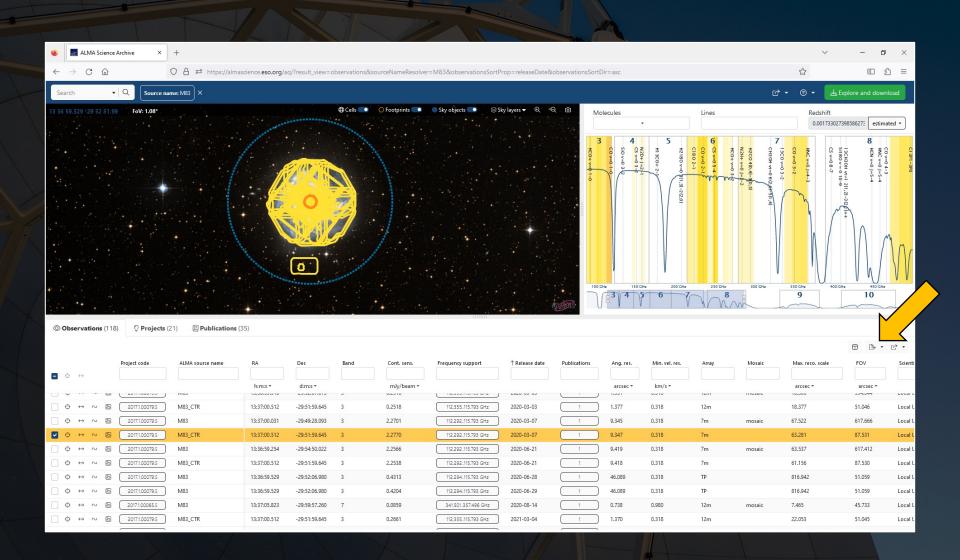
Proprietary data can be selected but cannot be downloaded. The checkbox will appear red when these data are selected. Other data (such as for programs where the observations are not yet complete or where the data are in QA3) cannot be selected.

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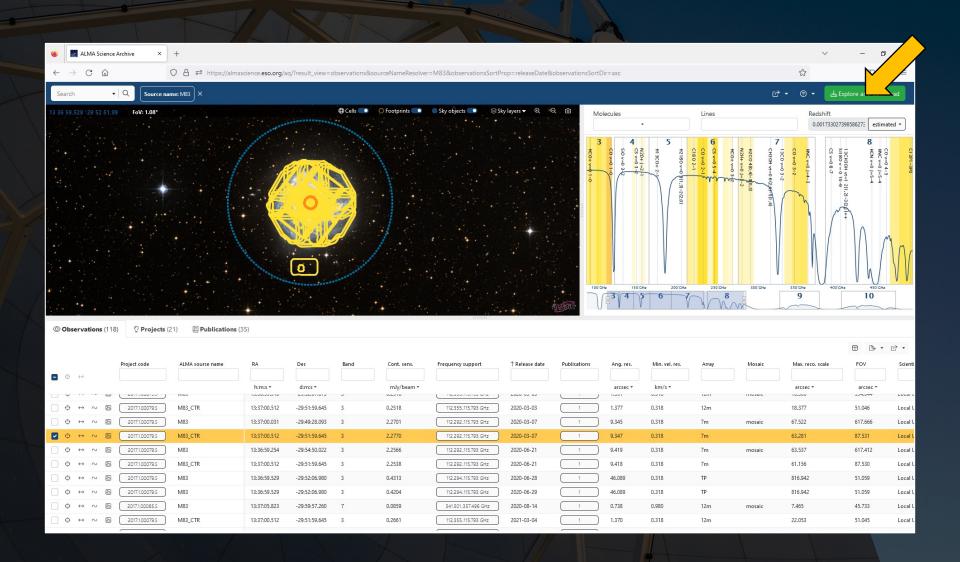
The interface has several other options as well. These include copying the link to the search results, selecting the columns that are displayed and saving the search results.



The interface has several other options as well. These include copying the link to the search results, selecting the columns that are displayed and saving the search results.



Selected data can be downloaded by clicking on the green "Explore and download" box at the top right. This will open a new display within the browser window listing the files associated with the selected dataset.



This interface is due to be replaced soon. It is affected by bugs, and it is also difficult to use. The "Explore and download in legacy system" link leads to the original download pages, which are easier to use.

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This interface is due to be replaced soon. It is affected by bugs, and it is also difficult to use. The "Explore and download in legacy system" link leads to the original download pages, which are easier to use.

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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

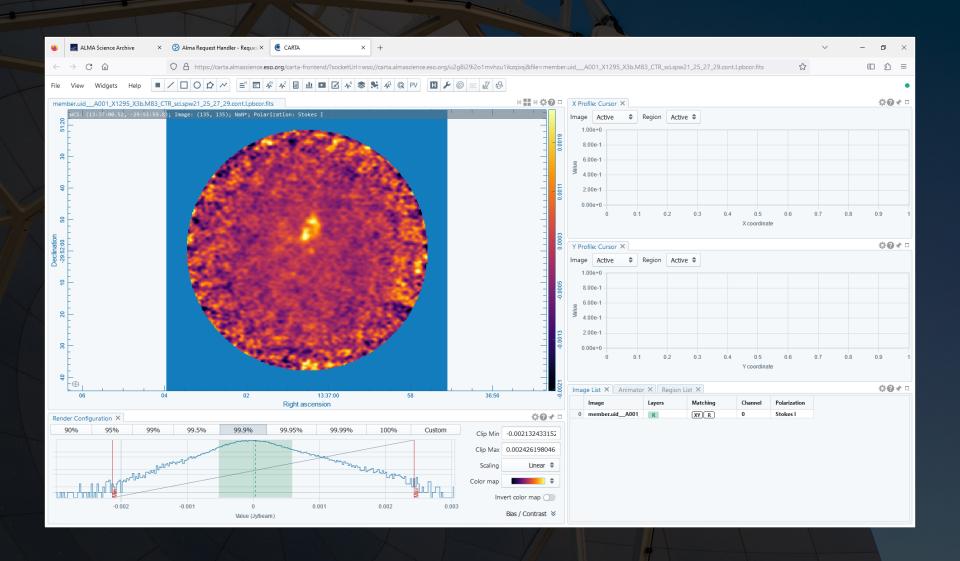
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When data download is started, two options are available.

- 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.