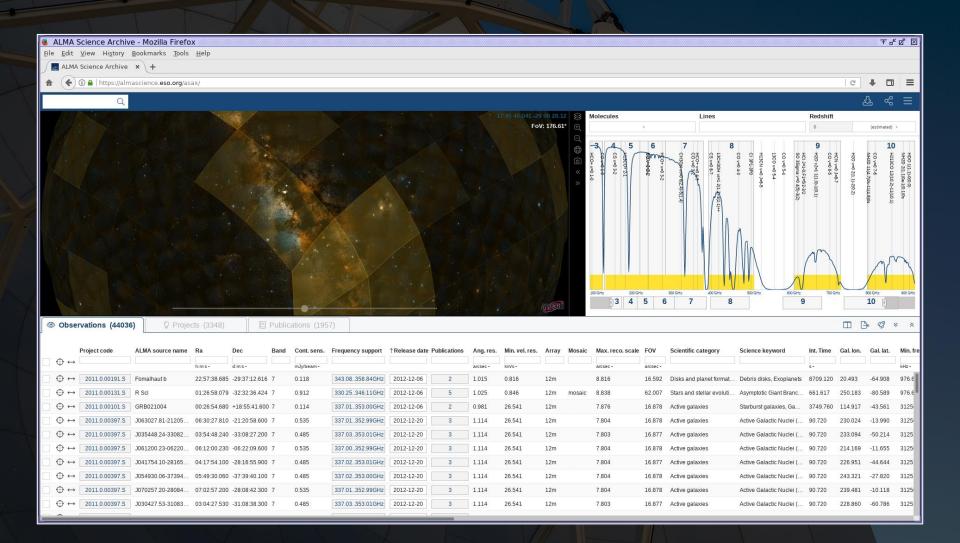
The ALMA Science Archive

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/asax/</u>. The default view shows the entire contents of the archive.



The interface has three sections:

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

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\leftrightarrow	2011.0.00236.S	The Dynamics of Massive Starless Cores	S	Tan, Jonathan	2013-01-23	4	4	Project236_ES_v2_ks
\leftrightarrow	2011.0.00268.S	Metallicity of a Submillimeter Galaxy at z=5	S	Nagao, Tohru	2013-02-09	3	1	LESS J0332-2756
\leftrightarrow	2011.0.00454.S	(Why) Is CenA a source of Ultra High Energy Cosmic Rays: Shock acceleration, jet and UHECR composition	S	Nagar, Neil	2013-02-14	1	6	Band 6 CenA - CO knot S1
\leftrightarrow	2011.0.00851.S	The Origin of the Destroyed Minor Planet at G29-38: a Main Belt or Kuiper Belt Analog?	S	Farihi, Jay	2013-02-14	1	2	G29-38 Band 6 RA=23: Run x2, G29-38 Band 7 RA=23: Run x5
\leftrightarrow	2011.0.00294.S	More than LESS: The first fully-identified submillimetre survey	S	Smail, Ian	2013-02-15	19	122	Targets1-16, Targets112-126, Targets17-32, Targets33-48, Targets49
\leftrightarrow	2011.0.00510.S	Probing the Molecular Outflows of the Coldest Known Object in the Universe: The Boomerang Nebula	S	Sahai, Raghvendra	2013-03-13	2	2	B3 1 SB of 1 - Boomerang Nebula CO 1-0, B6 1 SB of 1 Boomerang N
\leftrightarrow	2011.0.00131.S	Piecing the shell together: ALMA and the detached shell around R Scl	S	Maercker, Matthias	2013-03-29	5	3	R Sci B3 Spec 1: Run x2, R Sci B6: Run x3, R Sci B7: Run x4
\leftrightarrow	2011.0.00367.S	Outflow Entrainment in HH 46/47 v0.6	S	Mardones, Diego	2013-03-30	1	1	HH46/47 12CO HH46/47 C17O
\leftrightarrow	2011.0.00808.S	Probing the vertical structure of Saturn's storm with ALMA	S	Cavalie, Thibault	2013-04-23	0	1	GROUP_1_SB: Run directly after GROUP_2_SB GROUP_2_SB: Run
\leftrightarrow	2011.0.00101.S	Shedding Light on Distant Starburst Galaxies Hosting Gamma-ray Bursts v9	S	Wang, Wei-Hao	2013-05-01	2	2	GRB021004, GRB080607
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⊕ ↔ 2012A&A542L34N Nagao, T. A&A 2012 ALMA reveals a chemically evolved submillimeter galaxy at z = 4.76	2013-02-09 1	1 Nagao, T.; Ma	iolino, R.; De Breuck, C.; Caselli, P	; Hatsukade, B.; Saig
↔ 2014MNRAS.444.1821F Farihi, J. MNRAS 2014 ALMA and Herschel observations of the prototype dusty and polluted white dwarf G29-38	2013-02-14 1	2 Farihi, J.; Wya	tt, M. C.; Greaves, J. S.; Bonsor, A.;	Sibthorpe, B.; Panić, O.
↔ 2016A&A586A45S Salomé, Q. A&A 2016 Star formation efficiency along the radio jet in Centaurus A	2013-02-14 1	6 Salomé, Q.; S	alomé, P.; Combes, F.; Hamer, S.; H	leywood, I.
⊕ ↔ 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 1	122 Danielson, A	L. R.; Swinbank, A. M.; Smail, Ian;	Simpson, J. M.: Case

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MacKenzie, Todd P.; Scott, Douglas; Swinbank, Mark

Simpson, J. M.; Swinbank, A. M.; Smail, Ian; Alexander, D. M.; Brandt,

Lindroos, L.; Knudsen, K. K.; Fan, L.; Conway, J.; Coppin, K.; Decarli,

Thomson, A. P.; Ivison, R. J.; Simpson, J. M.; Swinbank, A. M.; Smail,

MNRAS 2014 An ALMA survey of submillimetre galaxies in the Extended Chandra Deep Field South: radio properties and the far-infrared/ra.

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.

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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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	• •		_		-11:33:06.184		0.833	217.11233.54GHz	2020-01-04	1	5.065	0.183	7m		29.811		ISM and star formation	Outflows, jets and ioniz	393.120	224.606	-2.557	141.110
	⊕ •	→ 2018.1.01131.S			-11:33:06.183		0.915	250.91268.10GHz	2020-02-21	1	4.346	0.634	7m		25.668	38.467	ISM and star formation	Outflows, jets and ioniz	302.400	224.606	-2.557	564.495
	⊕ •			07:03:43.158	-11:33:06.183	6	0.073	217.11233.47GHz	2020-08-24	1	0.968	0.183	12m		9.345	25.846	ISM and star formation	Outflows, jets and ioniz	302.400	224.606	-2.557	141.132
	⊕ •	→ 2018.1.01131.S	Z_CMa	07:03:43.158	-11:33:06.183	6	0.377	250.91268.10GHz	2020-08-24	1	20.255	0.634	TP		359.023	22.439	ISM and star formation	Outflows, jets and ioniz	4380.672	224.606	-2.557	564.527
	⊕ •	→ 2018.1.01131.S	Z_CMa	07:03:43.158	-11:33:06.182	6	0.074	250.97268.07GHz	2020-08-26	1	0.394	0.634	12m		5.227	22.438	ISM and star formation	Outflows, jets and ioniz	302.400	224.606	-2.557	564.533
	\oplus	→ 2018.1.00814.S	ZCMA	07:03:43.200	-11:33:06.700	6	0.037	216.58234.44GHz	2020-12-27	1	0.114	0.159	12m		1.840	25.822	Disks and planet format	. Disks around low-mass	604.800	224.607	-2.557	122.068

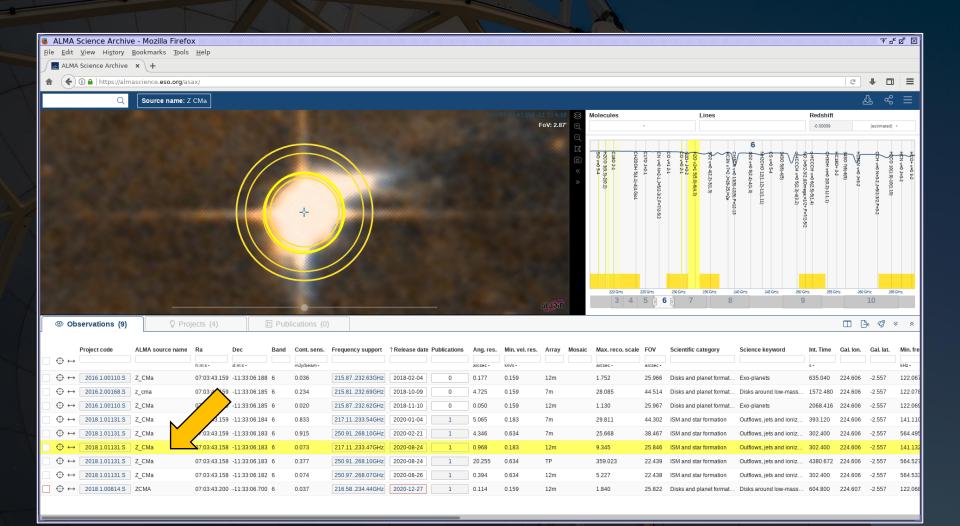
The map display can be adjusted to display different wavebands. The spectrum can be adjusted to show broader or narrower frequency ranges, to show different spectral lines, and to show those lines at different redshifts.

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		Project code	ALMA source name	Ra h:m:s- 07:03:43.159	Dec d:m:s- -11:33:06.188	Band 6	Cont. sens. mJy/beam - 0.036	Frequency support	2018-02-04	0	arcsec + 0.177	Min. vel. res. km/s - 0.159	Array Mos	aic Max. reco. scale arcsec - 1.752	FOV arcsec - 25.966	Scientific category Disks and planet format	Science keyword Exo-planets	Int. Time s - 635.040	Gal. lon.	♦ Gal. lat2.557	≈ Min. fre kHz • 122.067
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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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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.



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.

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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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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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	\oplus	\leftrightarrow	2016.1.00110.S	Z_CMa	07:03:43.159	-11:33:06.188	6	0.036	215.87232.63GHz	2018-02-04	0	0.177	0.159	12m	1.752	25.966	Disks and planet format	Exo-planets	635.040	224.606	-2.557	122.067
	Φ	\leftrightarrow	2016.2.00168.S	z_cma	07:03:43.159	-11:33:06.185	6	0.234	215.81232.69GHz	2018-10-09	0	4.725	0.159	7m	28.085	44.514	Disks and planet format	Disks around low-mass	1572.480	224.606	-2.557	122.078
	Φ	\leftrightarrow	2016.1.00110.S	Z_CMa	07:03:43.159	-11:33:06.185	6	0.020	215.87232.62GHz	2018-11-10	0	0.050	0.159	12m	1.130	25.967	Disks and planet format	Exo-planets	2068.416	224.606	-2.557	122.069
	Φ	\leftrightarrow	2018.1.01131.S	Z_CMa	07:03:43.159	-11:33:06.184	6	0.833	217.11233.54GHz	2020-01-04	1	5.065	0.183	7m	29.811	44.302	ISM and star formation	Outflows, jets and ioniz	393.120	224.606	-2.557	141.110
	Φ	\leftrightarrow	2018.1.01131.S	Z_CMa	07:03:43.159	-11:33:06.183	6	0.915	250.91268.10GHz	2020-02-21	1	4.346	0.634	7m	25.668	38.467	ISM and star formation	Outflows, jets and ioniz	302.400	224.606	-2.557	564.495
~	Φ	\leftrightarrow	2018.1.01131.S	Z_CMa	07:03:43.158	-11:33:06.183	6	0.073	217.11233.47GHz	2020-08-24	1	0.968	0.183	12m	9.345	25.846	ISM and star formation	Outflows, jets and ioniz	302.400	224.606	-2.557	141.132
	Φ	\leftrightarrow	2018.1.01131.S	Z_CMa	07:03:43.158	-11:33:06.183	6	0.377	250.91268.10GHz	2020-08-24	1	20.255	0.634	TP	359.023	22.439	ISM and star formation	Outflows, jets and ioniz	4380.672	224.606	-2.557	564.527
	Φ	\leftrightarrow	2018.1.01131.S	Z_CMa	07:03:43.158	-11:33:06.182	6	0.074	250.97268.07GHz	2020-08-26	1	0.394	0.634	12m	5.227	22.438	ISM and star formation	Outflows, jets and ioniz	302.400	224.606	-2.557	564.533
-	\oplus	\leftrightarrow	2018.1.00814.S	ZCMA	07:03:43.200	-11:33:06.700	6	0.037	216.58234.44GHz	2020-12-27	1	0.114	0.159	12m	1.840	25.822	Disks and planet format	Disks around low-mass	604.800	224.607	-2.557	122.068

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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🔻 📄 🚞 Science Goal OUS uid://A001/X135	зы/Х60		
🔻 📄 🚞 Group OUS uid://A001/X135b/X	ئا		
Member OUS uid://A001/X13	5b/X64		
SB V1647_Or_a_06_TM2			
🕞 💾 readme	member.uidA001_X135b_X64.README.bt	258 B	¥
product	2018.1.01131.5 uid A001_X135b_X64_001_of_001.tar	2 GiB	⊻
🕨 📄 💾 auxiliary	2018.1.01131.5_uidA001_X135b_X64_auxilianytar	338 MiB	⊻
🔲 💾 raw	2018.1.01131.S_uidA002_Xd9668b_Xa8e1.asdm.sdm.tar	6 GiB	⊻
Member OUS uid://A001/X13	5b/X66		
SB V1647_Or_a_06_7M			
🔲 💾 readme	member.uid A001_X135b_X66.README.txt	3 КіВ	⊻
🕨 📄 💾 product	2018.1.01131.5_uidA001_X135b_X66_001_of_001.tar	222 MiB	⊻
🕨 📄 🛅 auxiliary	2018.1.01131.S_uidA001_X135b_X66_auxiliary.tar	177 MiB	⊻
🔲 💾 raw	2018.1.01131.S_uidA002_Xd8fc22_X5da.asdm.sdm.tar	777 MiB	⊻
🔻 📄 🚞 Group OUS uid://A001/X135b/X4			
🔻 🧭 🚞 Member OUS uid://A001/X13	âb/X6b		
SB Z_CMa_a_06_TM2			
🕑 🛅 readme	member.uid A001_X135b_X6b.README.txt	258 B	⊻
🕨 🗹 📄 product	<u>2018.1.01131.S. uidA001_X135b_X6b_001_of_001.tar</u>	2 GiB	⊻
🕨 🗹 🕒 auxiliary	2018.1.01131.S. uidA001X135bX6b_auxiliarytar	347 MiB	✓
🗹 🛅 raw	2018.1.01131.5_uidA002_Xd98580_X354.asdm.sdm.tar	7 GIB	×
🔻 📄 🚞 Member OUS uid://A001/X13	jb/X6d		
▶ SB Z_CMa_b_06_7M			
🔲 💾 readme	member.uidA001_X135b_X6d.README.txt	258 B	×
🕨 🔲 💾 product	2018.101131.S_uidA001_X135b_X6d_001_of_001.tar	209 MiB	⊻
auxiliary	2018.1.01131.S. uidA001_X135b_X6d_auxiliarytar	147 MIB	×
🔲 💾 raw	2018.1.01131.S. uid A002_Xd3c7c2_X5388.asdm.sdm.tar	677 MiB	⊻

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.