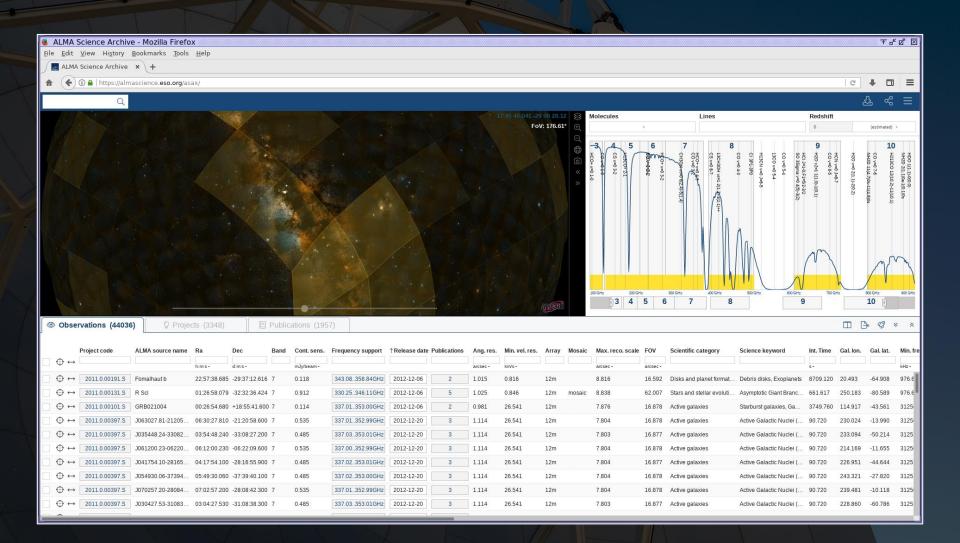
# **The ALMA Science Archive**

## 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

					★ 특 값 ⊠
<u>Eile Edit V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp					
ALMA Science Archive × +					
					€ 🖡 🗖 🚍
Q					& ≈ ≡
		17:45 40.041 -	29 00 28.12	Lines	Redshift 0 (estimated) -
			00.170.01		0 (estimated) +
	A second .			7 8 0 91 95 9 9 5 5 9 8 5	9 10 I OI I ZO I ZI
N A REAL AND A REAL				H1901-140-1199-297 90 Sigma web 449-240 90 Sigma web 449-240 90 Sigma web 21 1300 web 21 00 web 21 00 web 21 1304-004 web 21 1	HPD ((1,1),400,0) NH22 2(1,1),400,0) H23 2(1,1),400,0) H23 (40,100,2),11((0,0) NH22 1(1,1),2(0,2) H20 (+0) (40,1) H20 (+0) (+0) (+0) (+0) (+0) (+0) (+0) (+0
			0-9-1-0 	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1(1,1)-0(0,0) 12(1,1)-0(12(10,2)-11(1) CO 12(10,2)-11(1) CO 12(10,2)-11(1) CO 12(10,2)-11(1,0)-1 CO 1-11(1,0)-11(0,1) CO 2(1,1)-2(0,2) CO 5-5 CO 5-5 C
				3/2 1-2-2	0.1)0s 11(10.1) 11(4.8)0s 1(4.8)0s 0.2)
				1 T	
A Provide Constant of the second					
			4 ( a)		m
			100 GH+ 200 GH+	300 GH+ 400 GH+ 500 GH+ 500 GH+	701GH+ 801GH+ 901GH+
			100 GHz 200 GHz	300 GHz 400 GHz 500 GHz 600 GHz 9	700 GHz 800 GHz 900 GHz 10
	E Rublications. (1057)				10
Observations (44036)     Projects (3348)	Publications (1957)		2 4 5 6		
	Publications (1957) Band Cont. sens. Frequency support	↑Release date Publications Ang. res. Min. vel. res	2 4 5 6	7 8 9	10
Project code ALMA source name Ra			ataoan 3 4 5 6	7     8     9       Scientific category     Science keyword	
Project code ALMA source name Ra [	Dec Band Cont. sens. Frequency support		Array Mosaic Max.reco.scale FOV arcsec- arcsec-	Scientific category Science keyword	10       □     □<
Project code ALMA source name Ra D ↔ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Dec Band Cont. sens. Frequency support	arcsec - km/s -	Array         Mosaic         Max. reco. scale         FOV           12m         8.816         16.592	7     8     9       Scientific category     Science keyword       Disks and planet format     Debris disks, Exoplanets	10           □         □         □           □         □         □         □           □         □         □         □         □           □         □         □         □         □         □           □         □         □         □         □         □         □           □
Project code       ALMA source name       Ra       I $\bigoplus \leftrightarrow$ $\bigoplus$ $h_{mms}$ $h_{mms}$ $h_{mms}$ $\bigoplus \leftrightarrow$ 2011.0.00191S       Fomalhaut b       22.57.38.685 $22.57.38.685$ $\bigoplus \leftrightarrow$ 2011.0.00131S       R Scl       0126.58.079	Dec Band Cont.sens. Frequency support d.m.s- mJy/beam- 29:37:12.616 7 0.118 343.08.358.84GHz	arcsec - km/s- 2012-12-06 2 1.015 0.816	Array         Mosaic         Max. reco. scale         FOV           12m         8.816         16.592           12m         mosaic         8.338         62.007	7     8     9       Scientific category     Science keyword       Disks and planet format     Debris disks, Exoplanets       Stars and stellar evoluti     Asymptotic Giant Branc	10           □         □         □           □         □         □         □           □         □         □         □         □           □         □         □         □         □         □           □         □         □         □         □         □         □           □
Project code       ALMA source name       Ra       I $\bigoplus \leftrightarrow$ $\bigoplus$ $h_{mms}$ $h_{mms}$ $h_{mms}$ $\bigoplus \leftrightarrow$ 2011.0.00191S       Fomalhaut b       22.57.38.685 $22.57.38.685$ $\bigoplus \leftrightarrow$ 2011.0.00131S       R Scl       0126.58.079	Dec         Band         Cont. sens.         Frequency support           dms-         mJybeam-         -	arcsec - km/s - 2012-12-06 2 1.015 0.816 2012-12-06 5 1.025 0.846	Array         Mosaic         Max. reco. scale         FOV           12m         8.816         16.592           12m         mosaic         8.838         62.007           12m         7.876         16.878	7     8     9       Scientific category     Science keyword       Disks and planet format     Debris disks, Exoplanets       Stars and stellar evoluti     Asymptotic Giant Branc	IO         IO           Int. Time         Cal. Ion.         Gal. Iat.         Min. fre           s-         State         State         State           8709.120         20.493         -64.908         976.6           661.617         250.183         -80.589         976.6           3749.760         114.917         -43.561         3125
Project code       ALMA source name       Ra       I $\bigoplus \leftrightarrow$ $\bigoplus$ $h.ms.^{-}$ <	Dec         Band         Cont. sens.         Frequency support           dms-         mJyrbeam-         - <td>arcsac - km/s - 2012-12-06 2 1.015 0.816 2012-12-06 5 1.025 0.846 2012-12-06 2 0.981 26.541</td> <td>Array         Mosaic         Max. reco. scale         FOV           12m         8.816         16.592           12m         8.838         62.077           12m         7.876         16.878           12m         7.804         16.878</td> <td>7     8     9       Scientific category     Science keyword       Disks and planet format     Debris disks, Exoplanets       Stars and stellar evoluti     Asymptotic Glant Branc       Active galaxies     Starburst galaxies, Ga</td> <td>IO         IO           Int. Time         Gal. Ion.         Gal. Iat.         Min. fre           s-         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.           s-         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.           s-         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.           s-         Gal. Ion.         Gal. Ion.</td>	arcsac - km/s - 2012-12-06 2 1.015 0.816 2012-12-06 5 1.025 0.846 2012-12-06 2 0.981 26.541	Array         Mosaic         Max. reco. scale         FOV           12m         8.816         16.592           12m         8.838         62.077           12m         7.876         16.878           12m         7.804         16.878	7     8     9       Scientific category     Science keyword       Disks and planet format     Debris disks, Exoplanets       Stars and stellar evoluti     Asymptotic Glant Branc       Active galaxies     Starburst galaxies, Ga	IO         IO           Int. Time         Gal. Ion.         Gal. Iat.         Min. fre           s-         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.           s-         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.           s-         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.           s-         Gal. Ion.
Project code       ALMA source name       Ra       I $↔$ $↔$ $h.ms.*$ $h.ms.*$ $↔$ $2011.0.00191.S$ $Fomalhautb$ $22.57.38.685$ $↔$ $2011.0.00131.S$ $R.Scl$ $01.265.58.079$ $↔$ $2011.0.00131.S$ $R.B021004$ $00.2654.680$ $↔$ $2011.0.00397.S$ $J063027.81-21205$ $06.30.27.810$ $↔$ $2011.0.00397.S$ $J035448.24.33082$ $035448.240$ $↔$ $2011.0.00397.S$ $J061200.23.06220$ $06:12.00.230$	Dec         Band         Cont. sens.         Frequency support           dms-         mJybeam-         mJybeam-           29:37:12.616         7         0.118         343.08.358.84GHz           32:32:36.424         7         0.912         330.25.346.11GHz           +18:55:41.600         7         0.114         337.01.353.00GHz           -21:20:58.600         7         0.535         337.03.353.01GHz           -33:08:27:200         7         0.485         337.03.353.01GHz           -06:22:09.600         7         0.535         337.00.352.99GHz	arcsec         km/s           2012-12-06         2         1.015         0.816           2012-12-06         5         1.025         0.846           2012-12-06         2         0.981         26.541           2012-12-06         3         1.114         26.541           2012-12-02         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541	Array         Mosaic         Max. reco. scale         FOV           Array         Mosaic         Aar. reco. scale         FOV           12m         8.816         16.592           12m         8.838         62.007           12m         7.876         16.878           12m         7.804         16.878           12m         7.804         16.878           12m         7.803         16.877           12m         7.804         16.878	7     8     9       Scientific category     Science keyword       Disks and planet format     Debris disks, Exoplanets       Stars and stellar evoluti     Asymptotic Giant Branc       Active galaxies     Starburst galaxies, Ga       Active galaxies     Active Galactic Nuclei (       Active galaxies     Active Galactic Nuclei (       Active galaxies     Active Galactic Nuclei (	IO         IO           Int. Time         Gal. Ion.         Gal. Iat.         Min. fre           s-         Secondary         Secondary         Secondary         Secondary           8709.120         20.493         -64.908         976.6         Secondary           661.617         250.183         -80.589         976.6         Secondary           3749.760         114.917         -43.561         3125           90.720         230.024         -13.990         3125           90.720         23.094         -50.214         3125           90.720         214.169         -11.655         3125
Project code       ALMA source name       Ra       I	Dec         Band         Cont. sens.         Frequency support           dms-         mJybeam-         mJybeam-         mJybeam-           29:37:12.616         7         0.118         343.08.358.84GHz           32:32:36:424         7         0.912         330.25.346.11GHz           +18:55:41:600         7         0.114         337.01.353.90GHz           -21:20:58:600         7         0.535         337.01.352.99GHz           -33.08:27:200         7         0.485         337.00.352.99GHz           -66:22:09:600         7         0.535         337.00.352.99GHz           -28:16:55:900         7         0.485         337.02.353.01GHz	arcsec         km/s           2012-12-06         2         1.015         0.816           2012-12-06         5         1.025         0.846           2012-12-06         2         0.981         26.541           2012-12-06         2         0.981         26.541           2012-12-06         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541	Array         Mosaic         Max. reco. scale         FOV           Array         Mosaic         Aar. reco. scale         FOV           arcsec -         arcsec -         arcsec -           12m         8.816         16.592           12m         mosaic         8.383         62.007           12m         7.876         16.878           12m         7.804         16.878	7     8     9       Scientific category     Science keyword       Disks and planet format     Debris disks, Exoplanets       Stars and stellar evoluti     Asymptotic Giant Branc       Active galaxies     Starburst galaxies, Ga       Active galaxies     Active Galactic Nuclei (	IO         IO           III. Time         Cal. Ion.         Gal. Iat.         Min. fre           s-         Cal. Ion.         Gal. Ion.         Gal. Ion.           s-         Cal. Ion.         <
Project code       ALMA source name       Ra       I	Dec         Band         Cont. sens.         Frequency support           dms-         mJybeam-         mJybeam-         mJybeam-           293712.616         7         0.118         343.08.358.84GHz           32.32.36.424         7         0.912         330.25.346.11GHz           +18.55.41.600         7         0.114         337.01.353.00GHz           -21.20.56.00         7         0.535         337.03.353.01GHz           -33.08.27.200         7         0.485         337.00.352.99GHz           -28.16.55.900         7         0.485         337.02.353.01GHz           -33.7.39.40.100         7         0.485         337.02.353.00GHz	arcsec         km/s           2012-12-06         2         1.015         0.816           2012-12-06         5         1.025         0.846           2012-12-06         2         0.981         26.541           2012-12-06         2         0.981         26.541           2012-12-06         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541	Array         Mosaic         Max. reco. scale         FOV           Array         Mosaic         Aax. reco. scale         FOV           arcsec         arcsec         arcsec           12m         8.816         16.592           12m         mosaic         8.838         62.007           12m         7.876         16.878           12m         7.804         16.878	7     8     9       Scientific category     Science keyword       Disks and planet format     Debris disks, Exoplanets       Stars and stellar evoluti     Asymptotic Glant Branc       Active galaxies     Starburst galaxies, Ga       Active galaxies     Active Galactic Nuclei (	IO         IO           III. Time         Gal. Ion.         Gal. Iat.         Min. fre           s-         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.           s-         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.         Gal. Ion.           s-         Gal. Ion.         Gal. I
Project code       ALMA source name       Ra       I	Dec         Band         Cont. sens.         Frequency support           dms-         mybbeam-         mybbeam-         mybbeam-           293712.616         7         0.118         343.08.358.84GHz           32.32.36.424         7         0.912         330.25.346.11GHz           +18.55.41.600         7         0.114         337.01.353.00GHz           -21.20.56.00         7         0.535         337.01.352.99GHz           -33.08.27.200         7         0.485         337.00.352.99GHz           -28.16.55.900         7         0.485         337.02.353.01GHz           -337.39.40.100         7         0.485         337.02.353.00GHz           -28.06.42.300         7         0.535         337.01.352.99GHz	arcsec         km/s           2012-12-06         2         1.015         0.816           2012-12-06         5         1.025         0.846           2012-12-06         2         0.981         26.541           2012-12-06         2         0.981         26.541           2012-12-06         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541	Array         Mosaic         Max. reco. scale         FOV           Array         Mosaic         Max. reco. scale         FOV           arcsec -         arcsec -         arcsec -           12m         8.816         16.592           12m         mosaic         8.838         62.007           12m         7.876         16.878           12m         7.804         16.878	7     8     9       Scientific category     Science keyword       Disks and planet format     Debris disks, Exoplanets       Stars and stellar evoluti     Asymptotic Giant Branc       Active galaxies     Starburst galaxies, Ga       Active galaxies     Active Galactic Nuclei (	IO         IO           III. Time         Gal. Ion.         Gal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           Sal. Iat.         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           Sal. Iat.         Sal. Iat.         Sal. Iat.         Min. fre         Iat. Iat.         Sal. Iat.           Sal. Iat.         Sal. Iat.         Sal. Iat.         Min. fre         Sal. Iat.         Sal. Iat.           Sal. Iat.         Sal. Iat.         Sal. Iat.         Sal. Iat.         Sal. Iat.         Sal. Iat. <t< td=""></t<>
Project code       ALMA source name       Ra       I $\bigoplus \leftrightarrow$ 2011.0.001915       Fomalhautb       22:57:38.685 - $\bigoplus \leftrightarrow$ 2011.0.001915       Fomalhautb       22:57:38.685 - $\bigoplus \leftrightarrow$ 2011.0.001315       R Sci       01:26:58.079 - $\bigoplus \leftrightarrow$ 2011.0.001315       GRB021004       00:26:54.680 - $\bigoplus \leftrightarrow$ 2011.0.00397.5       J063027.81-21205       06:30:27.810 - $\bigoplus \leftrightarrow$ 2011.0.00397.5       J05424.24-33082       03:54:48.240 - $\bigoplus \leftrightarrow$ 2011.0.00397.5       J061200.23-06220       06:12:00.230 - $\bigoplus \leftrightarrow$ 2011.0.00397.5       J054930.06-37294       05:49:30.060 - $\bigoplus \leftrightarrow$ 2011.0.00397.5       J054930.06-37294       05:49:30.060 -	Dec         Band         Cont. sens.         Frequency support           dms-         mybbeam-         mybbeam-         mybbeam-           293712.616         7         0.118         343.08.358.84GHz           32.32.36.424         7         0.912         330.25.346.11GHz           +18.55.41.600         7         0.114         337.01.353.00GHz           -21.20.56.00         7         0.535         337.01.352.99GHz           -33.08.27.200         7         0.485         337.00.352.99GHz           -28.16.55.900         7         0.485         337.02.353.01GHz           -337.39.40.100         7         0.485         337.02.353.00GHz           -28.06.42.300         7         0.535         337.01.352.99GHz	arcsec         km/s           2012-12-06         2         1.015         0.816           2012-12-06         5         1.025         0.846           2012-12-06         2         0.981         26.541           2012-12-06         2         0.981         26.541           2012-12-06         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541           2012-12-20         3         1.114         26.541	Array         Mosaic         Max. reco. scale         FOV           Array         Mosaic         Max. reco. scale         FOV           arcsec -         arcsec -         arcsec -           12m         8.816         16.592           12m         mosaic         8.838         62.007           12m         7.876         16.878           12m         7.804         16.878	7     8     9       Scientific category     Science keyword       Disks and planet format     Debris disks, Exoplanets       Stars and stellar evoluti     Asymptotic Glant Branc       Active galaxies     Starburst galaxies, Ga       Active galaxies     Active Galactic Nuclei (	IO         IO           III. Time         Gal. Ion.         Gal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           s-         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           Sal. Iat.         Sal. Iat.         Min. fre         Sal. Iat.         Min. fre           Sal. Iat.         Sal. Iat.         Sal. Iat.         Min. fre         Iat. Iat.         Sal. Iat.           Sal. Iat.         Sal. Iat.         Sal. Iat.         Min. fre         Sal. Iat.         Sal. Iat.           Sal. Iat.         Sal. Iat.         Sal. Iat.         Sal. Iat.         Sal. Iat.         Sal. Iat. <t< td=""></t<>

## The results table actually has three tabs:

- Observation
- Project
- Publication

ALMA Science Archive - Mo									-	도막 집 🖂
<u>File Edit View History Bookn</u>										
ALMA Science Archive 🗙	+									
🕈 ( 🛈 🔒   https://almascien	nce.eso.org/asax/								C' ↓	
Q									丛	∝ී ≡
	1/ ANA			40.041 -29 00 28.12	Molecules	Line	s	Redshift		
				FoV: 176.61° 🕀		•		0	(estim	ated) +
					S V=0	6 100-0-20 100	T 1 7 0 0	HCI v=0 v=0; 9 H20 v2=1 (1(.0);1(0;1) HCI )==0.0[=5(2:3)2 S0 35gma, v=0 4(5);3(2) C0 v=0;54	CO v=0 7-6 NH2D 11(4.7)0s-11(4.8)0s H2O v=0 2(1.1)-2(0.2)	HDO 1(1.1)-0(0.0) NH2D 2(1.1)-0(0.0) H2D 2(1.1)-0(0.0)
					100 GHz 200 GP	te 300 GHz 40		00 GHz 700 GHz	800 GHz	900 04=
Ker has				ALCERT	3 4		8	9	10	
© Observations (44036)	Projects (3348)	E Publications (1957)								? × ≈
			-							

	Project Code	Project Title	Туре	PIName	↑ Max. Release Date	Publications	Observations	SB names
$\leftrightarrow$								
$\leftrightarrow$	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
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	↔         2011.0.00236.5           ↔         2011.0.00454.5           ↔         2011.0.00454.5           ↔         2011.0.00454.5           ↔         2011.0.00294.5           ↔         2011.0.00510.5           ↔         2011.0.00510.5           ↔         2011.0.00131.5           ↔         2011.0.00367.5           ↔         2011.0.0036.5	↔     2011.0.00236.5     The Dynamics of Massive Starless Cores       ↔     2011.0.00236.5     The Dynamics of Massive Starless Cores       ↔     2011.0.00268.5     Metallicity of a Submillimeter Galaxy at z=5       ↔     2011.0.00454.5     (Why) Is CenA a source of Ultra High Energy Cosmic Rays: Shock acceleration, jet and UHECR composition       ↔     2011.0.00454.5     The Origin of the Destroyed Minor Planet at G29-38: a Main Beit or Kuiper Beit Analog?       ↔     2011.0.00294.5     More than LESS: The first hully-identified submillimeter survey       ↔     2011.0.00510.5     Probing the Molecular Outflows of the Coldest Known Object In the Universe: The Boomerang Nebula       ↔     2011.0.0031.5     Piecing the shell together: ALMA and the detached shell around R Scl       ↔     2011.0.00367.5     Outflow Entrainment in HH 46/47 vo.6       ↔     2011.0.00808.5     Probing the vertical structure of Saturn's storm with ALMA	↔     2011.0.00236.S     The Dynamics of Massive Starless Cores     S       ↔     2011.0.00236.S     The Dynamics of Massive Starless Cores     S       ↔     2011.0.00236.S     Metallicity of a Submillimeter Galaxy at z=5     S       ↔     2011.0.00454.S     (Why) Is CenA a source of Ultra High Energy Cosmic Rays: Shock acceleration. Jet and UHECR composition     S       ↔     2011.0.00245.S     The Origin of the Destroyed Minor Planet at G29-38: a Main Belt or Kuiper Belt Analog?     S       ↔     2011.0.00245.S     More than LESS: The first fully-identified submillimeter survey     S       ↔     2011.0.0051.S     Probling the Molecular Outflow of the Coldest Known Object in the Universe: The Boomerang Nebula     S       ↔     2011.0.00131.S     Piecing the shell together: ALMA and the detached shell around R Scl     S       ↔     2011.0.00367.S     Outflow Entrainment in HH 46/47 v0.6     S       ↔     2011.0.00808.S     Probling the vertical structure of Saturn's storm with ALMA     S	Image: Constraint of the synamics of Massive Starless Cores       S       Tan, Jonathan         Image: Constraint of Massive Starless Cores       S       Tan, Jonathan         Image: Constraint of Massive Starless Cores       S       Nagao, Tohru         Image: Constraint of Massive Starless Cores       S       Nagao, Tohru         Image: Constraint of Massive Starless Cores       S       Nagao, Tohru         Image: Constraint of Massive Starless Cores       S       Nagao, Tohru         Image: Constraint of Massive Starless Cores       S       Nagao, Tohru         Image: Constraint of Massive Starless Cores       S       Nagao, Tohru         Image: Constraint of Massive Starless Cores       S       Nagao, Tohru         Image: Constraint of Massive Starless Cores       S       Nagao, Tohru         Image: Constraint of Massive Starless Cores       S       Nagao, Tohru         Image: Constraint of Massive Starless Cores       S       Nagao, Tohru         Image: Constraint of Massive Starless Cores       S       S       Nagao, Tohru         Image: Constraint of Massive Starless Cores       S       S       S       S         Image: Constraint of Massive Starless Cores       S       S       S       S       S       S       S       S       S       S       S <td>Image: Control of Contr</td> <td>Image: Control of the set of the se</td> <td>Image: Control of the Dynamics of Massive Starless Cores       S       Tan, Jonathan       2013-01-23       4       4         Image: Control of Control</td>	Image: Control of Contr	Image: Control of the set of the se	Image: Control of the Dynamics of Massive Starless Cores       S       Tan, Jonathan       2013-01-23       4       4         Image: Control of Control

#### The results table actually has three tabs:

- Observation
- Project

 $\bigoplus \leftrightarrow$ 

2014MNRAS.442..577T Thomson, A. P.

Publication

ALMA Science Archive - Mozilla Firefox				★ ┠ 2 萬
Ele Edit View Higtory Bookmarks Iools Help				
B ALMA Science Archive     x				
				ਰ 🖡 🖬 🔳
Q				& ≪ ≡
1745 40.041-29 00 28.12	S Molecules	Lines	Redshift	
FoV: 176.61°	÷.		0	(estimated) +
	C S w 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7         8         0 1 40 100           100 100 100         100 100         100 100           100 100         100 100         100           100 100         100 100         100           200 000         100 000         100           200 000         200 000         900 000           200 000         8         900 000           7         8         900 000	9 HEO VIRD 1967 CO VIRD 1967 HEO VIRD 11(1,0)(10)1 CO VIRD 14(0,0)1 CO VIRD 14(0	ноо ид 13000 сизон нез 14000-глузо иос оно та иос из 1400 на 1400-глузо иос оно та пос из 1400 на 1400-глузо иос иос и та пос и иос и иос и иос и иос и иос пос и иос и иос и иос и иос и иос пос и иос и иос и иос и иос пос и иос и иос и иос и иос и иос пос и иос и иос и иос и иос и иос пос и иос и иос и иос и иос и иос и иос пос и иос и иос и иос и иос и иос и иос пос и иос и иос и иос и иос и иос и иос и иос пос и иос и иос пос и иос и иос пос и иос и и иос и иос и и иос и иос и иос и иос и иос и иос и и иос и и и и
Observations (44036)     Projects (3348)     Publications (1957)			П	B• 43 × ∧
BibCode First Author Journal Year Publication Title	↑ Max. Release Date Projects	Observations Authors		
⊕ ↔ 2013ApJ77996T Tan, Jonathan C. ApJ 2013 The Dynamics of Massive Starless Cores with ALMA	2013-01-23 1	4 Tan, Jonatha	n C.; Kong, Shuo; Butler, Michael J.	Caselli, Paola; Font
C ↔ 2016ApJ828100F FengE, Siyi ApJ 2016 Outflow Detection in a 70 µm Dark High-Mass Core	2013-01-23 1		Beuther, Henrik; Zhang, Qizhou; Li	
↔ 2016ApJ82194K Kong, Shuo ApJ 2016 The Deuterium Fraction in Massive Starless Cores and Dynamical Implications	2013-01-23 1		ſan, Jonathan C.; Caselli, Paola; Fo	
⊕ ↔ 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

2013-02-15

2013-02-15

2013-02-15

2013-02-15

122

122

122

122

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.

ALMA Science Archive	e 🗚 Mozilla Firefox 🖉						<u> </u>										······································	d X
File Edit View History	arks Tools H	elp					000000000000000000000000000000000000000			*************								
ALMA Science Arg	+																	
	ascience.eso.org/asax/															C	+ 🗆	≡
	<u> </u>																	
									7 45 40.041 -29						5.1.1.6	ć	ር ፈ	
Ø Position	🖗 Energy		Project		Publication		servation			V: 176.61°	Se Molecu ⊕	lles -	Lines		0 Redshift		(estimated)	
Source name	Frequency	Pro	oject code	Put	blication Title	Observa	tion Date				a a	2112-1						
ALMA source name	Band	Pro	oject Title	Abs	stract	Polarisa	tion Type						6 7 8	00 HE 130 SO	9 5 5 8 8	HZO	10 10	
	<b>.</b>										0 + v=0	3CO+2	HCO+ V=0 %	CO v=0 5-4 13CO v=0 5-4 13CO v=0 5-4 H13CN v=0 3=6- CI 3P1-3P0 CO v=0 4-3	H2O v2=L 1(L,0)-1(0,1)	0 v=0 2	H213CO 12 CO v=0 7-6 NH2D 11(4)	HDO 1(1,1)-0(0,0) NH2D 2(1,1)0a-1(0,1)0;
RA Dec	Spectral resolution	Pro	oject abstract	Firs	st Author	Member	ous id				¥=01-0	~ 4/ ,	7 1=1 2 2-50 0=	54 av=04	1(1.0)-	v=0 2(1,1)-2(0,2)	2(10.2) 6 4.7)0s-1	.)-0(0.0) .1)0a-1(
														(5)-3(2)	1(0,1)	(0.2)	H213CO 12(10,2)-11(10.1) CO v=0 7-6 NH2D 11(4.7)0s-11(4.8)0s	0.1)0s
Galactic	Continuum sensitivity	PIF	Full Name	Aut	thors								.1)++					
Target List	Line sensitivity (10 km	(s) Pro	oposal authors															
			produ dudioro											Λο				
Angular Resolution		Sci	ience keyword			≡ Opt	ions								m		~	
						Put	olic data only								$\langle \rangle$		M	' \\
Maximum Recoverable Scale							bration						· · · · · · · · · · · · · · · · · · ·			h .		
						- ODS	ervations				100 GHz	200 GHz	300 GHz 400 GHz 6 7 8	500 GHz 600 GHz	700 G	Hz	800 GHz 10	900 GHz
				•			-	S. Jak		Alapin		3 4 3	0 / 0				10	
Observations (44036	6) 🖗 Projects	(3348)	E Publi	cations (195	57)												• <i>4</i> 3 ×	* *
, ,	u																	
Project code	ALMA source name Ra	a De	ec Band	Cont. sens.	Frequency support	↑Release date	Publications	Ang. res.	Min. vel. res.	Array Mo	osaic Max.	. reco. scale F	OV Scientific category	Science keyword	Int. Time	Gal. lon.	Gal. lat.	Min. fre
⇔↔	h:n	m:s• d:r	:m:s •	mJy/beam •				arcsec •	km/s •		arcsed	c∙ a	csec •		s *			kHz•
⊕ ↔ 2011.0.00191.S		2:57:38.685 -2	29:37:12.616 7	0.118	343.08358.84GHz	2012-12-06	2	1.015	0.816	12m	8.816	6 1	5.592 Disks and planet format	. Debris disks, Exoplanets	8709.120		-64.908	976.6
⊕ ↔ 2011.0.00131.S			32:32:36.424 7	0.912	330.25346.11GHz	2012-12-06	5	1.025	0.846		saic 8.838		2.007 Stars and stellar evoluti		661.617	250.183	-80.589	976.6
			18:55:41.600 7	0.114	337.01353.00GHz	2012-12-06	2	0.981	26.541	12m	7.876		5.878 Active galaxies	Starburst galaxies, Ga	3749.760	114.917	-43.561	3125
⊕ ↔ 2011.0.00397.5			21:20:58.600 7	0.535	337.01352.99GHz	2012-12-20	3	1.114	26.541	12m	7.804		5.878 Active galaxies	Active Galactic Nuclei (	90.720	230.024	-13.990	3125
		3:54:48.240 -3		0.485	337.03353.01GHz	2012-12-20	3	1.114	26.541	12m	7.803		5.877 Active galaxies	Active Galactic Nuclei (	90.720	233.094	-50.214	3125
⊕ ↔ 2011.0.00397.S		5:12:00.230 -0		0.535	337.00352.99GHz	2012-12-20	3	1.114	26.541	12m	7.804		5.878 Active galaxies	Active Galactic Nuclei (	90.720	214.169	-11.655	3125
⊕ ↔         2011.0.00397.S		1:17:54.100 -2		0.485	337.02353.01GHz	2012-12-20	3	1.114	26.541	12m	7.804		5.877 Active galaxies	Active Galactic Nuclei (		226.951	-44.644	3125
↔ 2011.0.00397.5			37:39:40.100 7	0.485	337.02353.00GHz	2012-12-20	3	1.114	26.541	12m	7.804		5.878 Active galaxies	Active Galactic Nuclei (	90.720	243.321	-27.820	3125
		7:02:57.200 -2		0.535	337.01352.99GHz	2012-12-20	3	1.114	26.541	12m	7.804		5.878 Active galaxies	Active Galactic Nuclei (	90.720	239.481	-10.118	3125
	J030427.53-31083 03	3:04:27.530 -3	31:08:38.300 7	0.485	337.03353.01GHz	2012-12-20	3	1.114	26.541	12m	7.803	3 1	5.877 Active galaxies	Active Galactic Nuclei (	90.720	228.860	-60.786	3125
					1	[]					_				_	_	_	

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.

				e - Mozilla Firefo																		<b>不</b>	- 5 X
-				Bookmarks Tools	<u>H</u> elp																		
	0	-	cience Archive																				
A	(+	) 🛈	A https://alm	hascience.eso.org/as	sax/																C	+ 0	
			Q																			යු අ	°° ≡
			C.R.										17 45 40.041 -29			lolecules		Lines		Redshif	t		
													Fo	V: 176.61°	° ⊕		•			0		(estimated	i) •
															Q (	3 4 5	6	7 8		9			.0
															6	CS VI	ant-	13CH30	CO v=0 5-4 13CO v=0 5-4 13CN v=0 13CN v=0 CI 3P1-3P0 CI 3P1-3P0	CO v= H2O vi H2O si	H20 v	CO VIE NH2D	HDO 1 NH2D H213C
1															%	940 940	V=03-2	ALLO HAL	3C0 v=0 5-4 3C0 v=0 5-4 413CN v=0 3- 413CN v=0 3- 01 3P1-3P0 01 3P1-3P0	CO v=0 6-5 H2O v2=1 1(1.0)-1(0.1) HCI J=1-0,F1=5/2-3/2 SO 3Sigma v=0 4(5)-3(2)	H2O v=0 2(1,1)-2(0,2) HCN v=0 3=8-7	CO v=0 7-6 NH2D 11(4.7)05	HDO 1(1.1)-0(0.0) NH2D 2(1.1)0a-1(0.1)0s H213CO 12(10.2)-11(10.1)
								Mar al							»			1 2(1.2	\$	.0)-1(0. 5/2-3/2	L)-2(0.2	0s-11(4	0.0) a-1(0.1)0; 0.2)-11(10
																				1) 9(2)		.8)0s	05
								4 33															
																			٨				
							· 2550	States / M															
																			IIIN	m		~	rv.
																				m	$\backslash$	N	N
																				S	h	N	r v v
															1	00 GH± 200 GH 13 4	5 6	00 GHz 200 GHz 7 8	500 GH± 600 G	Hz 700	) GHz	800 GHz 10	900 GHz
														ALADA	Ŀ	and the second se		and the second s				10	900 GHz
	Obs	serva	ations (44030	3 Proje	ects (3348)		Public	ations (195	7)					44000	Ŀ	and the second se		and the second s				10	900 GHz 900 GHz
	Obs		M													3 4	5 6	7 8		9		10 👔	* *
		Pro	ations (44030	B) / Proje	Ra	Dec	Public Band	Cont. sens.	7) Frequency support	A Release date	e Publications	Ang. res.				Max. reco. scale	5 6 Fov	and the second s		9 Int. Time		10	× ×
	⇔←	Pro	oject code	LMA source name	Ra h:m:s -	Dec d:m:s -	Band	Cont. sens. mJy/beam•	Frequency support			arcsec +	km/s •	Атгау		Max. reco. scale	5 6 FOV arcsec -	7 8 Scientific category	Science keyword	9 Int. Time	Gal. lon.	10 📄	× ≈ Min. fre
	⊕ ← ⊕ ←	Pro → 2	oject code	CMA source name	Ra h:m:s- 22:57:38.685	Dec d:m:s - -29:37:12.61	<b>Band</b>	Cont. sens. mJy/beam • 0.118	Frequency support	2012-12-06	2	arcsec -	km/s - 0.816	Array 12m	Mosaic	Max. reco. scale arcsec - 8.816	5 6 FOV arcsec - 16.592	7     8       Scientific category       Disks and planet format	Science keyword	9 Int. Time 5- ets 8709.120	Gal. Ion.	10 📄	
	→ ← → ← + ⊕	$Pro \rightarrow$	oject code	Fomalhaut b R Scl	Ra h:m:s - 22:57:38.685 01:26:58.079	Dec d:m:s - -29:37:12.61 -32:32:36.42	Band 6 7 24 7	Cont. sens. mJy/beam- 0.118 0.912	Frequency support 343.08358.84GHz 330.25346.11GHz	2012-12-06 2012-12-06	2	arcsec - 1.015 1.025	km/s- 0.816 0.846	Array 12m 12m	Mosaic	<b>Max. reco. scale</b> arcsec - 8.816 8.838	5 6 FOV arcsec - 16.592 62.007	7 8 Scientific category Disks and planet format Stars and stellar evoluti	Science keyword Debris disks, Exopland Asymptotic Giant Bran	9 Int. Time 5- ets 8709.120 c 661.617	Gal. Ion. 20.493 250.183	10 Gal. lat. -64.908 -80.589	<ul> <li>Min. fre</li> <li>kHz -</li> <li>976.6</li> <li>976.6</li> </ul>
	→ ⊕ → ⊕ + ⊕ +	$\begin{array}{c} \text{Pro} \\ \rightarrow \end{array} \\ \rightarrow \end{array} \\ \begin{array}{c} 2 \\ 2 \\ \rightarrow \end{array} \\ 2 \end{array}$	oject code	Fomalhaut b R Scl GRB021004	Ra h:m:s- 22:57:38.685 01:26:58.079 00:26:54.680	Dec d:m:s- -29:37:12.61 -32:32:36.42 +18:55:41.60	Band 6 7 24 7 00 7	Cont. sens. mJy/beam- 0.118 0.912 0.114	Frequency support 343.08.358.84GHz 330.25.346.11GHz 337.01.353.00GHz	2012-12-06 2012-12-06 2012-12-06	2 5 2	arcsec - 1.015 1.025 0.981	km/s- 0.816 0.846 26.541	Array 12m 12m 12m	Mosaic	<b>Max. reco. scale</b> arcsec - 8.816 8.838 7.876	5 6 FOV arcsec - 16.592 62.007 16.878	7 8 Scientific category Disks and planet format Stars and stellar evoluti Active galaxies	Science keyword Debris disks, Exoplan Asymptotic Giant Bran Starburst galaxies, Ga	9 Int. Time 5- ets 8709.120 c 661.617 3749.760	Gal. Ion. 20.493 250.183 0 114.917	10 Gal. lat. -64.908 -80.589 -43.561	<ul> <li>Min. fre</li> <li>kHz -</li> <li>976.6</li> <li>976.6</li> <li>3125</li> </ul>
	→ ⊕ → ⊕ + ⊕ +	Pro → 2 → 2 → 2 → 2 → 2	oject code 2011.0.00191.S 2011.0.00191.S 2011.0.00131.S 2011.0.00101.S 2011.0.00397.S	LMA source name Fomalhaut b R Scl GRB021004 J063027.81-21205	Ra h:m:s- 22:57:38.685 01:26:58.079 00:26:54.680 06:30:27.810	Dec d:mts- -29:37:12.61 -32:32:36.42 +18:55:41.60 -21:20:58.60	<b>Band</b> 6 7 24 7 20 7 20 7	Cont. sens. mJy/beam- 0.118 0.912 0.114 0.535	Frequency support 343.08.358.84GHz 330.25.346.11GHz 337.01.353.00GHz 337.01.352.99GHz	2012-12-06 2012-12-06 2012-12-06 2012-12-20	2 5 2 3	arcsec - 1.015 1.025 0.981 1.114	km/s- 0.816 0.846 26.541 26.541	Array 12m 12m 12m 12m	Mosaic	<b>Max. reco. scale</b> arcsec - 8.816 8.838 7.876 7.804	5 6 FOV arcsec → 16.592 16.878 16.878	7 8 Scientific category Disks and planet format Stars and stellar evoluti Active galaxies Active galaxies	Science keyword Debris disks, Exoplan Asymptotic Giant Bran Starburst galaxies, Ga Active Galactic Nuclei	9 Int. Time 5- 2015 8709.120 c 661.617 3749.760 ( 90.720	Gal. Ion. 20.493 250.183 0 114.917 230.024	10 Gal. lat. Gal. lat. -64.908 -80.589 -43.561 -13.990	➢ ♠ Min. fre kHz • 976.€ 976.€ 3125 3125
	$\begin{array}{c} \bullet \\ \bullet $	$Pro$ $\rightarrow$ $2$	oject code 2011.0.00191.S 2011.0.00191.S 2011.0.00191.S 2011.0.00197.S 2011.0.00397.S	t.MA source name Fomalhaut b R Scl GRB021004 J063027.81-21205 J035448.24-33082	Ra h.ms- 22:57:38.685 01:26:58.079 00:26:54.680 06:30:27.810 03:54:48.240	Dec d:m:s- -29:37:12.61 -32:32:36.42 +18:55:41.60 -21:20:58.60 -33:08:27.20	Band 6 7 24 7 00 7 00 7 00 7	Cont. sens. mJy/beam • 0.118 0.912 0.114 0.535 0.485	Frequency support 343.08.358.84GHz 330.25.346.11GHz 337.01.353.00GHz 337.01.352.99GHz 337.03.353.01GHz	2012-12-06 2012-12-06 2012-12-06 2012-12-20 2012-12-20	2 5 2 3 3	arcsec - 1.015 1.025 0.981 1.114 1.114	km/s- 0.816 0.846 26.541 26.541 26.541	Array 12m 12m 12m 12m 12m	Mosaic	<b>A</b> <b>Max. reco. scale</b> arcsec - 8.816 8.838 7.876 7.804 7.803	5 6 FOV arcsec - 16.592 62.007 16.878 16.878 16.878	7 8 Scientific category Disks and planet format Stars and stellar evoluti Active galaxies Active galaxies Active galaxies	Science keyword Debris disks, Exoplan Asymptotic Giant Bran Starburst galaxies, Ga Active Galactic Nuclei Active Galactic Nuclei	9 Int. Time 5- 1000 100 1000 1	Gal. Ion. Gal. Ion. 20.493 250.183 0 114.917 230.024 233.094	10 Gal. lat. -64.908 -80.589 -43.561 -13.990 -50.214	
	$\begin{array}{c} \bullet \\ \bullet $	$\begin{array}{c} \text{Pro} \\ \rightarrow \end{array} \\ 2 \\ \rightarrow \end{array} \\ 2 \\ 2 \\ \rightarrow \end{array} \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array}$	oject code 2001.0.00191.S 2011.0.00191.S 2011.0.00191.S 2011.0.00197.S 2011.0.00397.S 2011.0.00397.S	Fomalhaut b R Sci GRB021004 J063027.81-21205 J035448.24-33082 J061200.23-06220	Ra h:mts- 22:57:38.685 01:26:58.079 00:26:54.680 06:30:27.810 03:54:48.240 06:12:00.230	Dec d:m:s- -29:37:12.61 -32:32:36.42 +18:55:41.60 -21:20:58.60 -33:08:27.20 -06:22:09.60	Band 6 7 24 7 200 7 200 7 200 7 200 7	Cont. sens. mJy/beam- 0.118 0.912 0.114 0.535 0.485 0.535	Frequency support 343.08.358.84GHz 330.25.346.11GHz 337.01.353.00GHz 337.01.352.99GHz 337.03.353.01GHz 337.00.352.99GHz	2012-12-06 2012-12-06 2012-12-06 2012-12-20 2012-12-20 2012-12-20	2 5 2 3 3 3	arcsec - 1.015 1.025 0.981 1.114 1.114 1.114	km/s- 0.816 0.846 26.541 26.541 26.541 26.541	Array 12m 12m 12m 12m 12m 12m 12m	Mosaic	<b>3 4</b> <b>Max. reco. scale</b> arcsec - 8.816 8.838 7.876 7.804 7.803 7.804	<b>FOV</b> arcsec - 16.592 16.878 16.878 16.877 16.878	7 8 Scientific category Disks and planet format Stars and stellar evoluti Active galaxies Active galaxies Active galaxies Active galaxies	Science keyword Debris disks, Exoplan Asymptotic Giant Bran Starburst galaxies, Ga Active Galactic Nuclei Active Galactic Nuclei Active Galactic Nuclei	9 Int. Time Int. Time 5- sts 8709.12(2 c 661617 3749.760 ( 90.720 ( 90.720	Gal. Ion. Gal. Ion. 20.493 250.183 251.183 2114.917 230.024 233.094 214.169	10 3 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	★ ★ Min. fre Hit. Fre 976.€ 976.€ 976.€ 3125 3125 3125 3125
	$\begin{array}{c} \bullet \oplus $	$\begin{array}{c} \operatorname{Prc} \\ \rightarrow \\ 2 \end{array}$	oject code 2011.0.00191.S 2011.0.00131.S 2011.0.00101.S 2011.0.00397.S 2011.0.00397.S 2011.0.00397.S 2011.0.00397.S	Fomalhaut b R Sci GRB021004 J063027 81-21205 J035448 24-33082 J061200 23-06220 J041754.10-28165	Ra h:m:s- 22:57:38.685 01:26:58.079 00:26:54.680 06:30:27.810 03:54:48.240 06:12:00.230 04:17:54.100	Dec d.m.s - -29:37:12.61 -32:32:36.42 +18:55:41.6( -21:20:58.60 -33:08:27.20 -06:22:09.60 -28:16:55.90	<ul> <li>Band</li> <li>7</li> <li>8</li> <li>7</li> <li>7<td>Cont. sens. m3y/beam- 0.118 0.912 0.114 0.535 0.485 0.535 0.485</td><td>Frequency support           343.08.358.84GHz           330.25.346.11GHz           337.01.353.00GHz           337.03.353.01GHz           337.00.352.99GHz           337.00.352.99GHz           337.00.352.99GHz</td><td>2012-12-06 2012-12-06 2012-12-06 2012-12-20 2012-12-20 2012-12-20 2012-12-20</td><td>2 5 2 3 3 3 3 3</td><td>arcsec - 1.015 1.025 0.981 1.114 1.114 1.114 1.114 1.114</td><td>km/s- 0.816 0.846 26.541 26.541 26.541 26.541 26.541</td><td>Array 12m 12m 12m 12m 12m 12m 12m 12m</td><td>Mosaic</td><td><b>3 4</b> <b>Max. reco. scale</b> arcsec - 8.816 8.838 7.876 7.804 7.803 7.804 7.804 7.804</td><td>5 6 FOV arcsec - 16.592 62.007 16.878 16.878 16.877 16.878 16.877</td><td>7 8 Scientific category Disks and planet format Stars and stellar evoluti Active galaxies Active galaxies Active galaxies Active galaxies</td><td>Science keyword Debris disks, Exoplan Asymptotic Giant Bran Starburst galaxies, Ga Active Galactic Nuclei Active Galactic Nuclei Active Galactic Nuclei</td><td>9 Int. Time 5- 213 214 214 214 214 214 214 214 214</td><td>Gal. Ion. Gal. Ion. 20.493 250.183 0 114.917 230.024 233.094 214.169 246.951</td><td>10 Gal. lat. Gal. lat. -64.908 -80.589 -43.561 -13.990 -50.214 -11.655 -44.644</td><td><ul> <li>Min. free</li> <li>976.6</li> <li>976.6</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> </ul></td></li></ul>	Cont. sens. m3y/beam- 0.118 0.912 0.114 0.535 0.485 0.535 0.485	Frequency support           343.08.358.84GHz           330.25.346.11GHz           337.01.353.00GHz           337.03.353.01GHz           337.00.352.99GHz           337.00.352.99GHz           337.00.352.99GHz	2012-12-06 2012-12-06 2012-12-06 2012-12-20 2012-12-20 2012-12-20 2012-12-20	2 5 2 3 3 3 3 3	arcsec - 1.015 1.025 0.981 1.114 1.114 1.114 1.114 1.114	km/s- 0.816 0.846 26.541 26.541 26.541 26.541 26.541	Array 12m 12m 12m 12m 12m 12m 12m 12m	Mosaic	<b>3 4</b> <b>Max. reco. scale</b> arcsec - 8.816 8.838 7.876 7.804 7.803 7.804 7.804 7.804	5 6 FOV arcsec - 16.592 62.007 16.878 16.878 16.877 16.878 16.877	7 8 Scientific category Disks and planet format Stars and stellar evoluti Active galaxies Active galaxies Active galaxies Active galaxies	Science keyword Debris disks, Exoplan Asymptotic Giant Bran Starburst galaxies, Ga Active Galactic Nuclei Active Galactic Nuclei Active Galactic Nuclei	9 Int. Time 5- 213 214 214 214 214 214 214 214 214	Gal. Ion. Gal. Ion. 20.493 250.183 0 114.917 230.024 233.094 214.169 246.951	10 Gal. lat. Gal. lat. -64.908 -80.589 -43.561 -13.990 -50.214 -11.655 -44.644	<ul> <li>Min. free</li> <li>976.6</li> <li>976.6</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> </ul>
	$\begin{array}{c} \bullet \\ \bullet $	$\begin{array}{c} \operatorname{Prc} \\ \rightarrow \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ \rightarrow \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ \rightarrow \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \\ 2 \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \\ 2 \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \end{array} & \begin{array}{c$	oject code 2011.0.00191.S 2011.0.00131.S 2011.0.00101.S 2011.0.00397.S 2011.0.00397.S 2011.0.00397.S 2011.0.00397.S 2011.0.00397.S	Fomalhaut b           R Scl           GRB021004           J063027 81-21205           J035448 24-33082           J061200 23-06220           J041754 10-28165           J054930 06-37394	Ra h.ms- 22:57:38.685 01:26:58.079 00:26:54.680 06:30:27.810 03:54:48.240 06:12:00.230 04:17:54.100 05:49:30.060	Dec d.ms- -29:37:12.61 -32:32:36.42 +18:55:41.60 -21:20:58.60 -33:08:27.20 -06:22:09.60 -28:16:55.90 -37:39:40.10	Band 6 7 24 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7	Cont. sens. mJy/beam- 0.118 0.912 0.114 0.535 0.485 0.485 0.485	Frequency support 343.08.358.84GHz 330.25.346.11GHz 337.01.353.00GHz 337.03.353.01GHz 337.00.352.99GHz 337.02.353.01GHz 337.02.353.01GHz 337.02.353.01GHz	2012-12-06 2012-12-06 2012-12-06 2012-12-20 2012-12-20 2012-12-20 2012-12-20 2012-12-20	2 5 2 3 3 3 3 3 3 3	arcsec- 1.015 1.025 0.981 1.114 1.114 1.114 1.114 1.114	km/s- 0.816 0.846 26.541 26.541 26.541 26.541 26.541 26.541	Array 12m 12m 12m 12m 12m 12m 12m 12m 12m	Mosaic	<b>3 4</b> <b>Max. reco. scale</b> arcsec - 8.816 8.838 7.876 7.804 7.804 7.804 7.804 7.804 7.804 7.804	5 6 FOV arcsec - 16.592 62.007 16.878 16.878 16.877 16.878 16.877 16.878	7 8 Scientific category Disks and planet format Stars and stellar evoluti Active galaxies Active galaxies Active galaxies Active galaxies	Science keyword Debris disks, Exoplan Asymptotic Giant Bran Starburst galaxies, Ga Active Galactic Nuclei Active Galactic Nuclei Active Galactic Nuclei	9 Int. Time 5- sts 8709.12( 661617 3749.76( 90.720 90.720 90.720 90.720 90.720 90.720	Gal. Ion.           Q         20.493           250.183           Q         114.917           230.024           233.094           214.169           269.51           243.321	10 Gal. lat. Gal. lat. -64.908 -80.589 -43.561 -13.990 -50.214 -11.655 -44.644 -27.820	<ul> <li>Min. fre</li> <li>kHz -</li> <li>976 €</li> <li>976 €</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> </ul>
	$\begin{array}{c} \bullet \oplus $	$\begin{array}{c} \operatorname{Prc} \\ \rightarrow \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ \rightarrow \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ \rightarrow \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \\ 2 \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \\ 2 \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \\ 2 \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \end{array} & \end{array} & \begin{array}{c}$	oject code 2011.0.00191.S 2011.0.00131.S 2011.0.00101.S 2011.0.00397.S 2011.0.00397.S 2011.0.00397.S 2011.0.00397.S	Fomalhaut b R Sci GRB021004 J063027 81-21205 J035448 24-33082 J061200 23-06220 J041754.10-28165	Ra h.ms- 22:57:38.685 01:26:58.079 00:26:54.680 06:30:27.810 03:54:48.240 06:12:00.230 04:17:54.100 05:49:30.060	Dec d.ms- -29:37:12.61 -32:32:36.42 +18:55:41.60 -21:20:58.60 -33:08:27.20 -06:22:09.60 -28:16:55.90 -37:39:40.10	Band 6 7 24 7 200 7 200 7 200 7 200 7 200 7 200 7 200 7	Cont.sens. mJyrbeam- 0.118 0.912 0.114 0.535 0.485 0.485 0.485 0.485 0.485 0.485 0.485 0.485	Frequency support           343.08.358.84GHz           330.25.346.11GHz           337.01.353.00GHz           337.03.353.01GHz           337.00.352.99GHz           337.00.352.99GHz           337.00.352.99GHz	2012-12-06 2012-12-06 2012-12-06 2012-12-20 2012-12-20 2012-12-20 2012-12-20	2 5 2 3 3 3 3 3 3 3	arcsec - 1.015 1.025 0.981 1.114 1.114 1.114 1.114 1.114	km/s- 0.816 0.846 26.541 26.541 26.541 26.541 26.541	Array 12m 12m 12m 12m 12m 12m 12m 12m 12m 12m	Mosaic	<b>3 4</b> <b>Max. reco. scale</b> arcsec - 8.816 8.838 7.876 7.804 7.803 7.804 7.804 7.804	5         6           FOV           arcsec ·         16.592           62.007         16.878           16.878         16.877           16.878         16.877           16.878         16.877	7 8 Scientific category Disks and planet format Stars and stellar evoluti Active galaxies Active galaxies Active galaxies Active galaxies	Science keyword Debris disks, Exoplan Asymptotic Giant Bran Starburst galaxies, Ga Active Galactic Nuclei Active Galactic Nuclei Active Galactic Nuclei	9 Int. Time s- sts 8709.12( 661617 3749.76( 90.720 90.720 90.720 90.720 90.720	Gal. Ion. Gal. Ion. 20.493 250.183 0 114.917 230.024 233.094 214.169 246.951	10 Gal. lat. Gal. lat. -64.908 -80.589 -43.561 -13.990 -50.214 -11.655 -44.644 -27.820	<ul> <li>Min. fre</li> <li>kHz -</li> <li>976 €</li> <li>976 €</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> </ul>
	$\begin{array}{c} \bullet \oplus $	$\begin{array}{c} \operatorname{Prc} \\ \rightarrow \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ \rightarrow \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ \rightarrow \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ \rightarrow \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \\ 2 \\ 2 \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \\ 2 \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \\ 2 \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \begin{array}{c} 2 \end{array} & \begin{array}{c} 2 \end{array} & \end{array} & \end{array} & \begin{array}{$	oject code 2011.0.00191.S 2011.0.00131.S 2011.0.00131.S 2011.0.00397.S 2011.0.00397.S 2011.0.00397.S 2011.0.00397.S 2011.0.00397.S 2011.0.00397.S	Fomalhaut b           R Scl           GRB021004           J063027 81-21205           J035448 24-33082           J061200 23-06220           J041754 10-28165           J054930 06-37394	Ra 225738685 012658079 002654680 063027810 06120230 061200230 061200230 041754100 054930.060 070257.200	Dec d.m.s - -29:37:12.61 -32:32:36.42 +18:55:41.60 -33:08:27.20 -06:22:09.60 -28:16:55.90 -37:39:40.10 -28:08:42.30	Band 6 7 24 7 24 7 20 7 2	Cont. sens. mJy/beam- 0.118 0.912 0.114 0.535 0.485 0.485 0.485	Frequency support 343.08.358.84GHz 330.25.346.11GHz 337.01.353.00GHz 337.03.353.01GHz 337.00.352.99GHz 337.02.353.01GHz 337.02.353.01GHz 337.02.353.01GHz	2012-12-06 2012-12-06 2012-12-06 2012-12-20 2012-12-20 2012-12-20 2012-12-20 2012-12-20	2 5 2 3 3 3 3 3 3 3 3 3	arcsec- 1.015 1.025 0.981 1.114 1.114 1.114 1.114 1.114	km/s- 0.816 0.846 26.541 26.541 26.541 26.541 26.541 26.541	Array 12m 12m 12m 12m 12m 12m 12m 12m 12m	Mosaic	<b>3 4</b> <b>Max. reco. scale</b> arcsec - 8.816 8.838 7.876 7.804 7.804 7.804 7.804 7.804 7.804 7.804	5         6           FOV           arcsec -         16.592           62.007         16.878           16.878         16.877           16.878         16.878           16.878         16.878           16.878         16.878	7 8 Scientific category Disks and planet format Stars and stellar evoluti Active galaxies Active galaxies Active galaxies Active galaxies Active galaxies Active galaxies	Science keyword Debris disks, Exopland Asymptotic Giant Bran Starburst galaxies, Ga Active Galactic Nuclei Active Galactic Nuclei Active Galactic Nuclei Active Galactic Nuclei	9           Int. Time           s-           sts           8709.120           cmit           3749.760           (           90.720           (           90.720           (           90.720           (           90.720           (           90.720           (           90.720           (           90.720           (           90.720           (           90.720           (           90.720           (           90.720           (           90.720	Gal. Ion.           Q         20.493           250.183           Q         114.917           230.024           233.094           214.169           269.51           243.321	10 Gal. lat. -64.908 -80.589 -43.561 -13.990 -50.214 -11.655 -44.644 -27.820 -10.118	<ul> <li>Min. fre</li> <li>kHz -</li> <li>976.6</li> <li>976.6</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> <li>3125</li> </ul>

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.

1									Sel 1					in 1								
۲	ALM.	A Science Archi	ive - Mozilla Firef	ox																	∭ <b>⊼</b> ⊩	d X
Eile	e <u>E</u> d	it <u>V</u> iew Hi <u>s</u> tory	<u>B</u> ookmarks <u>T</u> ools	s <u>H</u> elp																		
	AL	MA Science Archive	∍ ×																			
A		🕖 🛈 🔒   https://al	mascience. <b>eso.org</b> /a	isax/																C	+ 🗆	≡
		Q	Source name: 2	Z CMa																ć	ዥ ዲ	Ξ
			1.0.0										11 33 6.19	⊗ M	olecules		Lines		Redshift			
												1	FoV: 2.87'	Ð					-0.00009		(estimated)	·
							*						ALEPIN	J II @ « »		CI Y VIO NIE2 1.1.450.3312 FII 72.502 CI YO 3 VIO 112 1		2016Hz 286GHz 280		H21507 (6)-4(6) 34500 7(6)-4(6) HC1800+3-2	HCC0 10(1.9)-10(1.10) CCH v=0 N+92,3=5(2-3)2 F=52 24: 10	HCO+ v0 3-2
[	© (	Observations (9)	Pro	ojects (4)		] Publi	ications (0)														• 18 *	* *
				_	_																	
	⊕.	Project code →	ALMA source name		Dec	Band		Frequency support	r Release date	Publications			Array M		Max. reco. scale		Scientific category	Science keyword		Gal. Ion.	Gal. lat.	Min. fre
					d:m:s -		mJy/beam •		[	-	arcsec -	km/s -			arcsec -	arcsec +			s •			kHz •
	⊕ • ⊕		_		-11:33:06.188		0.036	215.87232.63GHz		0	0.177	0.159	12m		1.752		Disks and planet format.	. Exo-planets	635.040	224.606	-2.557	122.067
	⊕ • ⊕				-11:33:06.185		0.234	215.81232.69GHz		0	4.725	0.159	7m		28.085			Disks around low-mass			-2.557	122.078
	• •				-11:33:06.185		0.020	215.87232.62GHz		0	0.050	0.159	12m		1.130		Disks and planet format	. Exo-planets		224.606	-2.557	122.069
	• •		_		-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

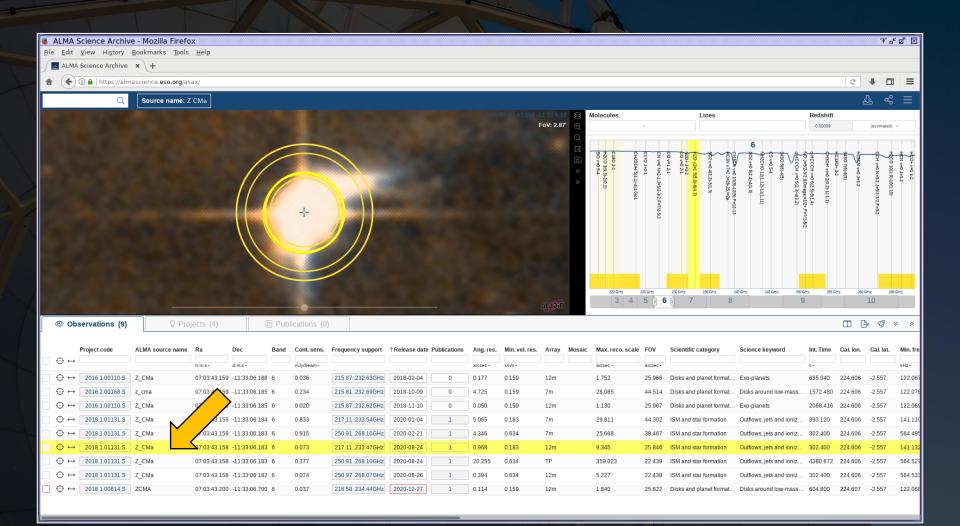
The map display can be adjusted to display different wavebands. The spectrum can be adjusted to show broader or narrower frequency ranges, to show different spectral lines, and to show those lines at different redshifts.

											A CONTRACTOR										
	ALMA	Science Archiv	e - Mozilla Firefo	x																▒ <b>┰</b> ᢞ	d X
Ele	<u>E</u> dit	<u>V</u> iew Hi <u>s</u> tory	Bookmarks Tools	<u>H</u> elp																	
$\int$	ALMA	A Science Archive	× \ +																		
ĥ	(	) 🛈 🔒   https://alm	ascience. <b>eso.org</b> /as	sax/															C	₽ 💷	≡
		Q	Source name: Z	Z CMa															4	ይ ፈ	≡
														Molecules		Lines		Redshift			
												F	FoV: 2.87'		•			-0.00009		(estimated) -	
														HIDOH 3(4,1)4(4,0%) 1180 2-1 200 3(3)-2002) 30 y=3 5-4 200 5-4	1 225 0Hz		99 49(2,9)4(0,2) (11,12) 11(1,11) (11,12) 11(1,11) (11,12) 11(1,11) (11,12) 11(1,11) (11,12) 11(1,11) (11,12) 11(1,11) (11,12) 11(1,11) (11,12) 11(1,11) (11,12) 11(1,12) 11(1,12) (11,12) 11(1,		H150 U 10-01 - 2-2-2 2000 U 10-01 - 2-2-2-2 2000 U 10-01 - 2-2-2-2-2000 U 10-01 - 2-2-2-2-2-2000 U 10-01 - 2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	CCH v=0 N=32,3=52302,F=32	HC0++022
															5 🛛 6	7 8	g			10	Hz
	@ Ob	oservations (9)	Pro	jects (4)		🗏 Publi	cations (0)								5 0		9	)			
[	@ 0k								≜ Polosso data J	Publications	Ang ros									• <i>€</i> 3 ×	*
	© 0b ⊕ ↔	Project code	Pro	Ra	Dec		Cont. sens.	Frequency support	↑Release date	Publications	Ang. res.	Min. vel. res.		aic Max. reco. scale	FOV	Scientific category	Science keyword	Int. Time		∳ <i>€} ≥</i> Gal. lat.	☆ Min. fre
	⇔⇔	Project code	ALMA source name	Ra h:m:s -	Dec d:m:s -	Band	Cont. sens. mJy/beam •	Frequency support			arcsec +	Min. vel. res.	Array Mos	aic Max. reco. scale	FOV arcsec -	Scientific category	Science keyword	Int. Time	Gal. lon.	→ <i>43</i> × Gal. lat.	Min. fre   KHz -
		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
	$\begin{array}{c} \oplus \\ \oplus \\ \oplus \\ \oplus \\ \oplus \\ \oplus \\ \end{array}$	Project code 2016.1.00110.S 2016.2.00168.S	ALMA source name Z_CMa z_cma	Ra h:m:s- 07:03:43.159 07:03:43.159	Dec d:m:s- -11:33:06.188 -11:33:06.185	Band 6 6	Cont. sens. mJy/beam - 0.036 0.234	Frequency support 215.87232.63GHz 215.81232.69GHz	2018-02-04	0	arcsec - 0.177 4.725	Min. vel. res. km/s - 0.159 0.159	Array Mos 12m 7m	aic Max.reco.scale arcsec - 1.752 28.085	FOV arcsec - 25.966 44.514	Scientific category Disks and planet format Disks and planet format	Science keyword Exo-planets Disks around low-mass	Int. Time s - 635.040 1572.480	Gal. lon. 224.606 224.606	<ul> <li>♥ ♥</li> <li>♥ ♥</li></ul>	≈ Min. fre kHz • 122.067 122.078
	$\begin{array}{c} \oplus \\ \oplus $	Project code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S	ALMA source name Z_CMa Z_CMa Z_CMa	Ra h:m:s- 07:03:43.159 07:03:43.159 07:03:43.159	Dec d:mcs - -11:33:06.188 -11:33:06.185 -11:33:06.185	Band 6 6 6 6	Cont. sens. mJy/beam - 0.036 0.234 0.020	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz	2018-02-04 2018-10-09 2018-11-10	0	arcsec - 0.177 4.725 0.050	Min. vel. res. km/s - 0.159 0.159 0.159	Array Mos 12m 7m 12m	aic Max. reco. scale arcsec - 1.752 28.085 1.130	FOV arcsec - 25.966 44.514 25.967	Scientific category Disks and planet format Disks and planet format Disks and planet format	Science keyword Exo-planets Disks around low-mass Exo-planets	Int. Time 5- 635.040 1572.480 2068.416	Gal. lon. 224.606 224.606 224.606	<ul> <li>▶ √3 ×</li> <li>Gal. lat.</li> <li>-2.557</li> <li>-2.557</li> <li>-2.557</li> </ul>	☆ Min. fre kHz - 122.067 122.078 122.069
	$\begin{array}{c} \oplus \\ \oplus $	Project code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S 2018.1.01131.S	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:ms- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	Dec d:m:s- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184	Band 6 6 6 6	Cont. sens. mJy/beam - 0.036 0.234 0.020 0.833	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz 217.11.233.54GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04	0	arcsec - 0.177 4.725 0.050 5.065	Min. vel. res. km/s - 0.159 0.159 0.159 0.183	Array Mos 12m 7m 12m 7m	aic Max. reco. scale arcsec - 1.752 28.085 1.130 29.811	FOV arcsec - 25.966 44.514 25.967 44.302	Scientific category Disks and planet format Disks and planet format Isks and planet format Isk and star formation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416 393.120	Gal. Ion. 224.606 224.606 224.606 224.606	<ul> <li>♥ ♥</li> <li>♥ ♥</li></ul>	
	$\begin{array}{c} \oplus \\ \oplus $	Project code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S 2018.1.01131.S 2018.1.01131.S	ALMA source name Z_CMa Z_cma Z_CMa Z_CMa Z_CMa	Ra h:ms- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	Dec d:m:s- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184 -11:33:06.184	Band 6 6 6 6 6 6 8 6	Cont. sens. mJy/beam - 0.036 0.234 0.020 0.833 0.915	Frequency support           215.87.232.63GHz           215.81.232.69GHz           215.81.232.69GHz           215.87.232.62GHz           217.11.233.54GHz           250.91.268.10GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21	0	arcsec - 0.177 4.725 0.050 5.065 4.346	Min. vel. res. km/s - 0.159 0.159 0.159 0.183 0.634	Array         Mos           12m         -           7m         -           12m         -           7m         -	aic Max. reco. scale arcsec - 1.752 28.085 1.130 29.811 25.668	FOV arcsec - 25.966 44.514 25.967	Scientific category Disks and planet format Disks and planet format Disks and planet format ISM and star formation ISM and star formation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, jets and ioniz Outflows, jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416 393.120 302.400	Cal. lon. 224.606 224.606 224.606 224.606 224.606	<ul> <li>↓ √2 ≥</li> <li>Gal. lat.</li> <li>-2.557</li> <li>-2.557</li> <li>-2.557</li> <li>-2.557</li> <li>-2.557</li> <li>-2.557</li> </ul>	≈ Min. fre kHz - 122.067 122.065 141.110 564.495
	$\begin{array}{c} \oplus \ \oplus $	Project code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S 2018.1.01131.S 2018.1.01131.S 2018.1.01131.S	ALMA source name Z_CMa z_cma Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:m:s- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.158	Dec d:m:s- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184	Band 6 6 6 6 6 6 6 6	Cont. sens. mJy/beam - 0.036 0.234 0.020 0.833	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz 217.11.233.54GHz 250.91.268.10GHz 217.11.233.47GHz	2018-02-04           2018-10-09           2018-11-10           2020-01-04           2020-02-21           2020-02-8-24	0	arcsec - 0.177 4.725 0.050 5.065	Min. vel. res. km/s - 0.159 0.159 0.159 0.183	Array Mos 12m 7m 12m 7m	aic Max. reco. scale arcsec - 1.752 28.085 1.130 29.811	FOV arcsec - 25.966 44.514 25.967 44.302 38.467	Scientific category Disks and planet format Disks and planet format ISM and star formation ISM and star formation ISM and star formation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, jets and ioniz Outflows, jets and ioniz Outflows, jets and ioniz	<b>Int. Time</b> 5- 635.040 1572.480 2068.416 393.120 302.400 302.400	Cal. lon. 224.606 224.606 224.606 224.606 224.606 224.606	<ul> <li>↓ √2 ×</li> <li>Gal. lat.</li> <li>-2.557</li> <li>-2.557</li> <li>-2.557</li> <li>-2.557</li> <li>-2.557</li> <li>-2.557</li> <li>-2.557</li> </ul>	
	$ \begin{array}{c} \oplus \\ \oplus \\$	Project code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S 2018.1.01131.S 2018.1.01131.S 2018.1.01131.S	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:m:s- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.158 07:03:43.158	Dec d:m:s- -11:33:06.188 -11:33:06.185 -11:33:06.184 -11:33:06.183 -11:33:06.183	Band 6 6 6 6 6 6 8 6 8 6 8 6 8 6 8 6	Cont. sens. mJy/beam - 0.036 0.234 0.020 0.833 0.915 0.073	Frequency support           215.87.232.63GHz           215.81.232.69GHz           215.81.232.69GHz           215.87.232.62GHz           217.11.233.54GHz           250.91.268.10GHz	2018-02-04           2018-10-09           2018-11-10           2020-01-04           2020-02-21           2020-02-8-24	0	arcsec - 0.177 4.725 0.050 5.065 4.346 0.968	Min. vel. res. km/s - 0.159 0.159 0.183 0.634 0.183	Array Mos 12m 7m 12m 7m 7m 7m 12m	aic Max. reco. scale arcsec - 1.752 28.085 1.130 29.811 25.668 9.345	FOV arcsec - 25.966 44.514 25.967 44.302 38.467 25.846	Scientific category Disks and planet format Disks and planet format ISM and star formation ISM and star formation ISM and star formation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, jets and ioniz Outflows, jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416 393.120 302.400 302.400 4380.672	Cal. Ion. 224.606 224.606 224.606 224.606 224.606 224.606 224.606	<ul> <li>▲ </li> <li>← </li> <li></li></ul>	☆ Min. fre kHz- 122.067 122.078 122.065 141.110 564.495 141.132
	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	Project code 2016.1.00110 S 2016.2.00168.S 2016.1.00110 S 2018.1.01131 S 2018.1.01131 S 2018.1.01131 S	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:mcs- 07:03:43:159 07:03:43:159 07:03:43:159 07:03:43:159 07:03:43:159 07:03:43:158 07:03:43:158 07:03:43:158	Dec d:ms- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.183 -11:33:06.183 -11:33:06.183	Band 6 6 6 6 6 6 6 6 6 6 6 8 6 8 6 8 6 8 6	Cont. sens. mJy/beam - 0.036 0.234 0.020 0.833 0.915 0.073 0.377	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz 217.11.233.54GHz 250.91.268.10GHz 217.11.233.47GHz 250.91.268.10GHz	2018-02-04           2018-10-09           2018-11-10           2020-01-04           2020-02-21           2020-08-24           2020-08-24           2020-08-24	0	arcsec - 0.177 4.725 0.050 5.065 4.346 0.968 20.255	Min. vel. res. km/s- 0.159 0.159 0.159 0.183 0.634 0.183 0.634	Array         Mos           12m         -           12m         -           12m         -           7m         -           7m         -           12m         -           7m         -           12m         -           12m         -           12m         -           TP         -	arcsec - 1.752 28.085 1.130 29.811 25.668 9.345 359.023	FOV arcsec - 25.966 44.514 25.967 44.302 38.467 25.846 22.439 22.438	Scientific category Disks and planet format Disks and planet format ISM and star formation ISM and star formation ISM and star formation ISM and star formation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, jets and ioniz Outflows, jets and ioniz Outflows, jets and ioniz Outflows, jets and ioniz Outflows, jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416 393.120 302.400 302.400 4380.672 302.400		<ul> <li>Cal. lat.</li> <li>-2.557</li> </ul>	Min. fre kHz - 122.067 122.067 122.065 141.110 564.495 141.132 564.527

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.

۲	AL	MA S	cience Archiv	ve - Mozilla Firefo	x																∭ ⊼ ぱ	ø 🗵
-			/	<u>B</u> ookmarks <u>T</u> ools	<u>H</u> elp																	
J	1	ALMA S	Science Archive	× \+																		
1	1	<b>(</b> )	🕽 🔒   https://alm	nascience. <b>eso.org</b> /as	sax/															C	+ 🚥	≡
Г			Q	Source name: Z	Z CMa															٤	<u>}</u> ~%	Ξ
														$\sim$	Nolecules		Lines		Redshift			
													F	oV: 2.87'		•	co	8	-0.00009		(estimated) +	
							-		CA ANNO									6				
						- /								Ó				$\int$			~~~	~
														*		v=2 2-1	+ J=2-1,F= v=0 2-1					
							10							×			¥2-IJ2					
								*														
																					_	
															231044	125 044	2010-0250-025	2004- 2504- 200		4. 200	No. 255.0	
														111210	200 GHz 2 3 4	225 GHz 5 🔲 б		240 GHz 245 GHz 250 G			на 265 g 10	Hz
											_			A1407							10	
	0	Obs	ervations (9)	Pro	jects (4)		Publ	ications (0)			_			ALADIA								
	0									↑ Balaasa data	Publications	Ann ras			3 4	5 🛛 6	u 7 8	9	)		10 ↓ <i>4</i> 3 ×	*
			ervations (9)	ALMA source name	Ra	Dec		Cont. sens.	Frequency support	↑Release date	Publications		Min. vel. res.	Array Mosaic	3 4 Max. reco. scale	5 6			Int. Time		10	× Min. fre
	¢	F ↔	Project code	ALMA source name	Ra h:m:s -	Dec d:m:s -	Band	Cont. sens. mJy/beam •	Frequency support			arcsec -	Min. vel. res.	Array Mosaic	3 4 Max. reco. scale arcsec -	5 6 FOV	C 7 8	Science keyword	Int. Time	Gal. lon.	10 ∗ <i>4</i> 3 × Gal. lat.	★ Min. fre kHz •
	€	F ↔ ↔	Project code	ALMA source name	Ra h:m:s- 07:03:43.159	Dec d:m:s-	Band 6	Cont. sens. mJy/beam - 0.036	Frequency support	2018-02-04	0	arcsec - 0.177	<b>Min. vel. res.</b> km/s - 0.159	Array Mosaic	3 4 Max. reco. scale arcsec - 1.752	5 6 FOV arcsec - 25.966	Scientific category Disks and planet format	Science keyword Exo-planets	Int. Time s - 635.040	Gal. lon.	10	★ Min. fre kHz • 122.067
	⊕	$\begin{array}{c} F \\ \leftrightarrow \end{array} \\ \leftrightarrow \end{array} \\ \leftrightarrow \end{array}$	Project code 2016.1.00110.S 2016.2.00168.S	ALMA source name Z_CMa z_cma	Ra h:m:s - 07:03:43.159 07:03:43.159	Dec d:mcs - -11:33:06.188 -11:33:06.185	Band 3 6 5 6	Cont. sens. mJy/beam - 0.036 0.234	Frequency support 215.87232.63GHz 215.81232.69GHz	2018-02-04 2018-10-09	0	arcsec - 0.177 4.725	Min. vel. res. km/s- 0.159 0.159	Array Mosaic 12m 7m	3 4 Max. reco. scale arcsec - 1.752 28.085	<b>FOV</b> arcsec - 25.966 44.514	Centific category Disks and planet format Disks and planet format	Science keyword Exo-planets Disks around low-mass	Int. Time s - 635.040 1572.480	Gal. lon. 224.606 224.606	10	Min. fre kH2 - 122.067 122.078
	$\oplus$ $\oplus$ $\oplus$ $\oplus$	$\begin{array}{c} F \\ \leftrightarrow \end{array} \\ \leftrightarrow \end{array} \\ \leftrightarrow \end{array} \\ \leftrightarrow \end{array} \\ \leftrightarrow \end{array}$	Project code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S	ALMA source name Z_CMa Z_cma Z_CMa	Ra h:m:s - 07:03:43.159 07:03:43.159 07:03:43.159	Dec d:mcs- -11:33:06.188 -11:33:06.185 -11:33:06.185	Band 3 6 5 6 5 6	Cont. sens. mJy/beam- 0.036 0.234 0.020	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz	2018-02-04 2018-10-09 2018-11-10	0	arcsec - 0.177 4.725 0.050	Min. vel. res. km/s - 0.159 0.159 0.159	Array Mosaic 12m 12m	3 4 Max. reco. scale arcsec - 1.752 28.085 1.130	<b>FOV</b> arcsec - 25.966 44.514 25.967	Centific category Disks and planet format Disks and planet format Disks and planet format	Science keyword Exo-planets Disks around low-mass Exo-planets	Int. Time 5- 635.040 1572.480 2068.416	Gal. Ion. 224.606 224.606 224.606	10	Min. fre kHz - 122.067 122.065
	$\oplus \oplus \oplus \oplus \oplus \oplus$	$\begin{array}{c} F \\ \leftrightarrow \end{array} \\ \begin{array}{c} F \\ \bullet \end{array} \end{array}$	2016.1.00110.S 2016.2.00168.S 2016.1.00110.S 2018.1.01131.S	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h.m.s- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	Dec d:m:s- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184	Band 3 6 5 6 5 6 4 6	Cont. sens. mJy/beam - 0.036 0.234 0.020 0.833	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz 217.11.233.54GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04	0	arcsec - 0.177 4.725 0.050 5.065	Min. vel. res. km/s - 0.159 0.159 0.159 0.183	Array Mosaic 12m 7m 12m 7m 7m	3 4 Max. reco. scale arcsec- 1.752 28.085 1.130 29.811	<b>FOV</b> arcsec+ 25.966 44.514 25.967 44.302	T     8       Scientific category       Disks and planet format       Disks and planet format       Disks and planet format       ISM and star formation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416 393.120	Gal. Ion. 224.606 224.606 224.606 224.606	10	Min. fre HHz - 122.067 122.078 122.069 141.110
		$\begin{array}{c} F \\ \leftrightarrow \end{array} \\ \uparrow \\ \downarrow \\ \downarrow$	roject code 2016.100110.S 2016.200168.S 2016.100110.S 2018.101131.S 2018.101131.S	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:ms- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	Dec d:m:s- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184 -11:33:06.184	Band 3 6 5 6 5 6 4 6 3 6	Cont. sens. mJy/beam - 0.036 0.234 0.020 0.833 0.915	Frequency support           215.87.232.63GHz           215.81.232.69GHz           215.81.232.69GHz           215.87.232.62GHz           217.11.233.54GHz           250.91.268.10GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21	0	arcsec - 0.177 4.725 0.050 5.065 4.346	Min. vel. res. km/s - 0.159 0.159 0.159 0.159 0.183 0.634	Array Mosaic 12m 7m 12m 7m 7m 7m 7m	3 4 Max. reco. scale arcsec- 1.752 28.085 1.130 29.811 25.668	5 6 FOV arcsec - 25.966 44.514 25.967 44.302 38.467	T     8       Scientific category       Disks and planet format       Disks and planet format       Disks and planet format       ISM and star formation       ISM and star formation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, Jets and ioniz Outflows, Jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416 393.120 302.400	Gal. Ion. 224.606 224.606 224.606 224.606 224.606	10 Cal. lat. -2.557 -2.557 -2.557 -2.557 -2.557	Min. fre kH2 - 122.067 122.078 122.065 141.110 564.495
		$\begin{array}{c} F \\ \leftrightarrow \end{array} \\ \uparrow \\ \downarrow \\ \downarrow$	roject code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S 2018.1.01131.S 2018.1.01131.S	ALMA source name Z_CMa Z_Cma Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h.m.s- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.158	Dec d:ms- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.183 -11:33:06.183 -11:33:06.183	Band 5 6 5 6 4 6 3 6 3 6	Cont. sens. mJy/beam - 0.036 0.234 0.020 0.833 0.915 0.073	Frequency support [215 87.232 63GHz] [215 81.232 63GHz] [215 81.232 69GHz] [215 87.232 62GHz] [217.11.233.54GHz] [250.91.268 10GHz] [217.11.233.47GHz] [217.11.233.47	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21 2020-08-24	0	arcsec - 0.177 4.725 0.050 5.065 4.346 0.968	Min. vel. res. km/s - 0.159 0.159 0.159 0.183 0.634 0.183	Array         Mosaic           12m         -           12m         -           12m         -           12m         -           12m         -           12m         -	3 4 Max. reco. scale arcsec - 1.752 28.085 1.130 29.811 29.811 25.668 9.345	5 6 FOV arcsec - 25.966 44.514 25.967 44.302 38.467 25.846	T     8       Scientific category     Disks and planet format       Disks and planet format     Disks and planet format       Disks and planet format     ISM and star formation       ISM and star formation     ISM and star formation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, Jets and ioniz Outflows, Jets and ioniz Outflows, Jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416 393.120 302.400 302.400	Cal. Ion. 224.606 224.606 224.606 224.606 224.606 224.606	10 Cal. lat. -2.557 -2.557 -2.557 -2.557 -2.557 -2.557	Min. fre kH2- 122.067 122.078 122.065 141.110 564.495 141.132
		<ul> <li>F</li> <li>↓</li> <li>↓</li></ul>	Yroject code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S 2018.1.01131.S 2018.1.01131.S 2018.1.01131.S	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:m:s- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.158 07:03:43.158	Dec d:m:s- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184 -11:33:06.183 -11:33:06.183 -11:33:06.183	Band       3     6       5     6       4     6       3     6       3     6	Cont. sens. mJy/beam- 0.036 0.234 0.020 0.833 0.915 0.073 0.377	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.81.232.62GHz 217.11.233.54GHz 250.91.268.10GHz 217.11.233.47GHz 250.91.268.10GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21 2020-08-24 2020-08-24	0	arcsec- 0.177 4.725 0.050 5.065 4.346 0.968 20.255	Min. vel. res. http://www.s- 0.159 0.159 0.159 0.183 0.634 0.183 0.634	Array         Mosaic           12m         -           12m         -	3         4           Max. reco. scale         -           arcsec -         -           1.752         -           28.085         -           1.130         -           29.811         -           25.668         -           9.345         -           359.023         -	<b>FOV</b> arcsec - 25.966 44.514 25.967 44.302 38.467 25.846 22.439	T     8       Scientific category       Disks and planet format       Disks and planet format       Disks and planet format       ISM and star formation       ISM and star formation       ISM and star formation       ISM and star formation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, Jets and ioniz Outflows, Jets and ioniz Outflows, Jets and ioniz Outflows, Jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416 393.120 302.400 302.400 4380.672	Cal. Ion. 224.506 224.606 224.606 224.606 224.606 224.606 224.606	10 Cal. lat. -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557	Min. fre kH2- 122.067 122.065 141.110 564.495 141.132 564.527
		<ul> <li>F</li> <li>↓</li> <li>↓</li></ul>	roject code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S 2018.1.01131.S 2018.1.01131.S	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:m:s- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.158 07:03:43.158 07:03:43.158	Dec d:ms- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.183 -11:33:06.183 -11:33:06.183	Band           3         6           5         6           5         6           4         6           3         6           3         6           3         6           3         6           3         6           3         6           3         6           3         6	Cont. sens. mJy/beam - 0.036 0.234 0.020 0.833 0.915 0.073	Frequency support [215 87.232 63GHz] [215 81.232 63GHz] [215 81.232 69GHz] [215 87.232 62GHz] [217.11.233.54GHz] [250.91.268 10GHz] [217.11.233.47GHz] [217.11.233.47	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21 2020-08-24 2020-08-24 2020-08-24	0	arcsec - 0.177 4.725 0.050 5.065 4.346 0.968	Min. vel. res. km/s - 0.159 0.159 0.159 0.183 0.634 0.183	Array         Mosaic           12m         -           12m         -           12m         -           12m         -           12m         -           12m         -	3 4 Max. reco. scale arcsec - 1.752 28.085 1.130 29.811 29.811 25.668 9.345	5 6 FOV arcsec - 25.966 44.514 25.967 44.302 38.467 25.846 22.439 22.438	Cientific category Disks and planet format Disks and planet format Disks and planet format ISM and star formation ISM and star formation ISM and star formation ISM and star formation ISM and star formation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, Jets and ioniz Outflows, Jets and ioniz Outflows, Jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416 393.120 302.400 302.400 4380.672 302.400	Cal. lon. 224.606 224.606 224.606 224.606 224.606 224.606 224.606 224.606	10 Cal. lat. -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557	Min. fre kH2- 122.067 122.078 122.065 141.110 564.495 141.132

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.

	A Science Archiv																			
<u>F</u> ile <u>E</u> di		e - Mozilla Firefo	ox 📰																▒┊ ᡯ ୷	d X
	t <u>V</u> iew Hi <u>s</u> tory	<u>B</u> ookmarks <u>T</u> ools	<u>H</u> elp																	
) 🔜 Ali	MA Science Archive	× \ +																		
<b>^</b>	🛈 🔒   https://alm	ascience. <b>eso.org</b> /as	sax/															C	+ 🗆	≡
_	Q	Source name: Z	Z CMa																රු ද	Ξ
												11 33 6.19 😫	Molecules		Lines		Redshift		<u>~</u>	
												FoV: 2.87'			Linco		-0.00009		(estimated)	•
												Q				6		1 1 1		
												I	CH2 C18 SIO	C17			81 13	H B H	C I	HCT
				_ //								6 «	CH2DOH 5(4,1)-4(4 C180 2-1 H2CO 3(0,3)-2(0,2) SIO V=0 5-4	i v=0 N=2-J 70 J=2-1	30. v7=2 30. v7=2 2 v=0 4() 2 v=0 2 v=0	2 v=0 54 2 v=0 54	30H vt=0 30H vt=0 .3=5/2-3/2	96N v=0 180+3-2	00-10(1 H v=0 N	0+ v=0.2
					1							»	3(4,1)-4 3)-2(0,7	424.0=		CH v=0 5(2.3)-4(3.2) 3(8)-4(5) 5-5-4 H0 12(1.12)-11(1,11) +0 5(2.4)-4(1.3) =0 5(2.4)-4(1.3)		v=0 J=3-2 (6)-6(5) + 3-2	10(1,9)-10(1 =0 N=3-2,J=	3-2 J=3-2
													(4.0)o1 2)	312-312	25,1=2e 1,3) 1(4,3)	v=0 5(2.3)-4(3.2) 4(5) 12(1.12)-11(1.11) 12(1.12)-11(1.11) (2.4)-4(1.3) (2.4)-12(5).F=	2(0,2)-1(-1,1) 0 6(2,5)-5(1,4 ,Ω=1/		L.10) =5/2-3/	
						1								F=7/2-4		.2) 1)	1) .4) 1/2+.F=		2,F=3-2	
														¥2			712-512			
						-														
														225 GHz			GHz 255 G			GHz
														225 GHz 5 11 6			о GHz 255 G 9		<sup>iHz</sup> 265 10	GHz
	observations (9)		iects (4)		Public	cations (0)			_			ALADIN							10	
© c	bservations (9)	Proj	jects (4)		E Publi	cations (0)			_			ALADIN							10	
<u>@</u> (	Observations (9)	Proj		Dec			Frequency support	Release date	Publications	Ang. res.		Alaoin ↑Array Mosaic	3 4	5 🛛 6			9		10	
 □_⊕+	Project code	L						Release date	Publications	Ang. res.			3 4	5 🛛 6	<b>8 1</b> 7 8	ŝ	9		10 • <i>4</i> 3 ×	* «
	Project code	ALMA source name	Ra h:m:s •	Dec	Band	Cont. sens.			Publications		Min. vel. res.		3 4 Max. reco. scale	5 6 FOV	<b>8 1</b> 7 8	ŝ	9 Int. Time 5-	Gal. lon.	10 • <i>4</i> 3 ×	≶
• +	Project code →	ALMA source name	Ra h:m:s- 07:03:43.158	Dec d:m:s -	Band 3 6	Cont. sens. mJy/beam -	Frequency support			arcsec +	Min. vel. res.	↑Array Mosaic	3 4 Max. reco. scale	5 6 FOV arcsec - 25.846	Scientific category	Science keyword	9 Int. Time 5- . 302.400	Gal. lon.	10  > <i>(2</i> ) > Gal. lat.	≶
• + +	Project code → 2018.1.01131.S → 2016.1.00110.S	ALMA source name Z_CMa Z_CMa	Ra h:m:s- 07:03:43.158 07:03:43.159	Dec d:m:s- -11:33:06.183	Band 3 6 5 6	Cont. sens. mJy/beam - 0.073	Frequency support	2020-08-24	1	arcsec + 0.968	Min. vel. res. km/s- 0.183	12m	3 4 Max. reco. scale arcsec - 9.345	5 6 FOV arcsec - 25.846 25.967	Scientific category	Science keyword Outflows, jets and ioniz	9 Int. Time 5- . 302.400 2068.416	Gal. lon. 224.606 224.606	10 Gal. lat.	<ul> <li>Min. fre</li> <li>kHz •</li> <li>141.132</li> </ul>
□ ⊕ • □ ⊕ • □ ⊕ •	Project code → 2018.1.01131.5 → 2016.1.00110.5 → 2018.1.00814.5	ALMA source name	Ra h:m:s- 07:03:43.158 07:03:43.159 07:03:43.200	Dec d:m:s- -11:33:06.183 -11:33:06.185	Band 3 6 5 6 0 6	Cont. sens. mJy/beam - 0.073 0.020	Frequency support	2020-08-24 2018-11-10	1	arcsec - 0.968 0.050	Min. vel. res. km/s - 0.183 0.159	12m	3 4 Max. reco. scale arcsec - 9.345 1.130	5 6 FOV arcsec - 25.846 25.967 25.822	Scientific category ISM and star formation Disks and planet format	Science keyword Outflows, jets and ioniz Exo-planets	9 Int. Time s- . 302.400 2068.416 604.800	Gal. Ion. 224.606 224.607	10 Gal. lat. -2.557 -2.557	<ul> <li>Min. fre</li> <li>kHz -</li> <li>141.132</li> <li>122.069</li> </ul>
<ul> <li>⊕ •</li> <li>⊕ •</li> <li>⊕ •</li> <li>⊕ •</li> <li>⊕ •</li> </ul>	Project code → 2018.101131.S → 2016.100110.S → 2018.100814.S → 2018.10131.S	ALMA source name Z_CMa Z_CMa ZCMA Z_CMA Z_CMa	Ra h.m.s- 07:03:43.158 07:03:43.159 07:03:43.200 07:03:43.158	Dec d:mcs- -11:33:06.183 -11:33:06.185 -11:33:06.700	Band 3 6 5 6 0 6 2 6	Cont. sens. mJy/beam - 0.073 0.020 0.037	Frequency support 217.11.233.47GHz 215.87.232.62GHz 216.58.234.44GHz	2020-08-24 2018-11-10 2020-12-27	1 0 1	arcsec - 0.968 0.050 0.114	Min. vel. res. km/s - 0.183 0.159 0.159	Array Mosaic     A	3         4           Max.reco.scale         arcsec -           9.345         1.130           1.840	<b>FOV</b> arcsec- 25.846 25.967 25.822 22.438	Scientific category ISM and star formation Disks and planet format Disks and planet format	Science keyword Outflows, jets and ioniz Exo-planets Disks around low-mass	9 Int. Time 5- . 302.400 2068.416 604.800 302.400	Gal. Ion. 224.606 224.607 224.607	10 Gal. lat. -2.557 -2.557 -2.557	Min. fre kHz - 141.132 122.065 122.065
<ul> <li>□ ⊕ •</li> </ul>	Project code → 2018.101131.S → 2016.100110.S → 2018.100814.S → 2018.101131.S → 2016.100110.S	ALMA source name Z_CMa Z_CMa ZCMA Z_CMa Z_CMa Z_CMa	Ra h:ms- 07:03:43.158 07:03:43.159 07:03:43.200 07:03:43.158 07:03:43.159	Dec d:m:s- -11:33:06.183 -11:33:06.185 -11:33:06.182	Band           3         6           5         6           0         6           2         6           8         6	Cont. sens. mJy/beam - 0.073 0.020 0.037 0.074	Frequency support 217.11.233.47GHz 215.87.232.62GHz 216.58.234.44GHz 250.97.268.07GHz	2020-08-24 2018-11-10 2020-12-27 2020-08-26		arcsec - 0.968 0.050 0.114 0.394	Min. vel. res. km/s- 0.183 0.159 0.159 0.634	Array     Mosaic       12m     12m       12m     12m       12m     12m	3 4 Max.reco.scale arcsec- 9.345 1.130 1.840 5.227	5 6 FOV arcsec - 25.846 25.967 25.822 22.438 25.966	Scientific category ISM and star formation Disks and planet format ISM and star formation	Science keyword Outflows, jets and ioniz Exo-planets Disks around low-mass Outflows, jets and ioniz	9 Int. Time 5- . 302.400 2068.416 604.800 . 302.400 635.040	Cal. Ion. 224.606 224.606 224.606 224.606 224.606	10 Gal. lat. -2.557 -2.557 -2.557 -2.557	<ul> <li>Min. fre</li> <li>kHz-</li> <li>141.132</li> <li>122.065</li> <li>122.065</li> <li>564.533</li> </ul>
	Project code → 2018.101131.S → 2016.100110.S → 2018.100814.S → 2018.101131.S → 2016.100110.S → 2018.101131.S	ALMA source name Z_CMa Z_CMa ZCMA Z_CMA Z_CMa Z_CMa Z_CMa	Ra h:m:s- 07:03:43.158 07:03:43.159 07:03:43.158 07:03:43.158 07:03:43.159 07:03:43.159	Dec d:m:s- -11:33:06.183 -11:33:06.185 -11:33:06.182 -11:33:06.182 -11:33:06.188	Band           3         6           5         6           0         6           2         6           8         6           3         6	Cont. sens. mJy/beam - 0.073 0.020 0.037 0.074 0.036	Frequency support 217.11.233.47GHz 215.87.232.62GHz 216.58.234.44GHz 250.97.268.07GHz 215.87.232.63GHz	2020-08-24 2018-11-10 2020-12-27 2020-08-26 2018-02-04	1 0 1 1 0	arcsec - 0.968 0.050 0.114 0.394 0.177	Min. vel. res. km/s- 0.183 0.159 0.159 0.634 0.159	Array     Mosaic       12m     12m       12m     12m       12m     12m       12m     12m	3         4           Max. reco. scale           arcsec -           9.345           1.130           1.840           5.227           1.752	<b>FOV</b> arcsec - 25.846 25.967 25.822 22.438 25.966 38.467	Scientific category ISM and star formation Disks and planet format ISM and star formation Disks and planet format	Science keyword Outflows, jets and ioniz Exo-planets Disks around low-mass Outflows, jets and ioniz Exo-planets	9 Int. Time 5- 302.400 2068.416 604.800 302.400 635.040 302.400	Cal. Ion. 224.606 224.606 224.606 224.606 224.606 224.606	10 Gal. lat. -2.557 -2.557 -2.557 -2.557 -2.557	Min. fre
	Project code → 2018.101131.S → 2016.100110.S → 2018.100814.S → 2018.101131.S → 2016.100110.S → 2018.101131.S → 2018.101131.S → 2018.20158.S	ALMA source name Z_CMa Z_CMa ZCMA Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:m:s- 07:03:43.158 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	Dec d:ms- -11:33:06.183 -11:33:06.185 -11:33:06.182 -11:33:06.188 -11:33:06.188	Band           2         6           2         6           3         6           4         6           5         6           6         6           7         6           8         6           3         6           5         6	Cont. sens. mJy/beam - 0.073 0.020 0.037 0.074 0.036 0.915	Frequency support 217.11.233.47GHz 215.87.232.62GHz 216.58.234.44GHz 250.97.268.07GHz 215.87.232.63GHz 250.91.268.10GHz	2020-08-24 2018-11-10 2020-12-27 2020-08-26 2018-02-04 2020-02-21	1 0 1 1 0 1	arcsec - 0.968 0.050 0.114 0.394 0.177 4.346	Min. vel. res. km/s- 0.183 0.159 0.634 0.159 0.634	Array         Mosaic           12m         12m	3         4           Max. reco. scale           arcsec-           9.345           1.130           1.840           5.227           1.752           25.668	FOV arcsec - 25.846 25.967 25.822 22.438 25.966 38.467 44.514	Scientific category ISM and star formation Disks and planet format ISM and star formation Disks and planet format ISM and star formation Disks and planet format ISM and star formation	Science keyword Outflows, jets and ioniz Exo-planets Disks around low-mass Outflows, jets and ioniz Exo-planets Outflows, jets and ioniz	Int. Time           s-           302.400           2068.416              604.800              302.400           635.040	Gal. Ion. 224 606 224 606 224 606 224 606 224 606 224 606 224 606 224 606	10 Gal.lat. -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557	Min. fre kHz- 141.132 122.065 564.533 122.067 564.495
	Project code → 2018.101131.S → 2016.100110.S → 2018.100814.S → 2018.101131.S → 2016.100110.S → 2018.101131.S → 2016.200168.S → 2018.101131.S	ALMA source name Z_CMa Z_CMa ZCMA Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:ms- 07:03:43.158 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	Dec d.ms- -11:33:06.183 -11:33:06.185 -11:33:06.185 -11:33:06.183 -11:33:06.183 -11:33:06.185 -11:33:06.185	Band           3         6           5         6           0         6           2         6           8         6           3         6           5         6           5         6	Cont. sens. mJy/beam - 0.073 0.020 0.037 0.074 0.036 0.915 0.234 0.833	Frequency support 217.11.233.47GHz 215.87.232.62GHz 216.58.234.44GHz 250.97.268.07GHz 215.87.232.63GHz 250.91.268.10GHz 215.81.232.69GHz 215.81.232.69GHz 217.11.233.54GHz	2020-08-24 2018-11-10 2020-12-27 2020-08-26 2018-02-04 2020-02-21 2018-10-09 2020-01-04	1 0 1 1 0 1	arcsec - 0.968 0.050 0.114 0.394 0.177 4.346 4.725 5.065	km/s-           0.183           0.159           0.159           0.634           0.159           0.634           0.159           0.634           0.159           0.634           0.159	Array         Mosaic           12m         12m           12m </td <td>3         4           Max. reco. scale           arcsec -           9.345           1.130           1.840           5.227           1.752           25.668           28.085           29.811</td> <td>FOV arcsec - 25.846 25.967 25.822 22.438 25.966 38.467 44.514 44.302</td> <td>Scientific category ISM and star formation Disks and planet format ISM and star rormation Disks and planet format ISM and star formation Disks and planet format ISM and star formation</td> <td>Science keyword Outflows, jets and ioniz Exo-planets Disks around low-mass Outflows, jets and ioniz Exo-planets Outflows, jets and ioniz Disks around low-mass Outflows, jets and ioniz</td> <td>Int. Time           s-           302.400           2068.416          </td> <td>Cal. Ion. 224.606 224.606 224.606 224.606 224.606 224.606 224.606 224.606</td> <td>10 Cal. lat. -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557</td> <td>Min. fre kHz- 141.132 122.065 564.533 122.067 564.495 122.078 141.110</td>	3         4           Max. reco. scale           arcsec -           9.345           1.130           1.840           5.227           1.752           25.668           28.085           29.811	FOV arcsec - 25.846 25.967 25.822 22.438 25.966 38.467 44.514 44.302	Scientific category ISM and star formation Disks and planet format ISM and star rormation Disks and planet format ISM and star formation Disks and planet format ISM and star formation	Science keyword Outflows, jets and ioniz Exo-planets Disks around low-mass Outflows, jets and ioniz Exo-planets Outflows, jets and ioniz Disks around low-mass Outflows, jets and ioniz	Int. Time           s-           302.400           2068.416	Cal. Ion. 224.606 224.606 224.606 224.606 224.606 224.606 224.606 224.606	10 Cal. lat. -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557	Min. fre kHz- 141.132 122.065 564.533 122.067 564.495 122.078 141.110
	Project code → 2018.101131.S → 2016.100110.S → 2018.100814.S → 2018.101131.S → 2016.100110.S → 2018.101131.S → 2016.100113.S → 2016.20168.S	ALMA source name Z_CMa Z_CMa ZCMA Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:ms- 07:03:43.158 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	Dec d:ms- -11:33:06.183 -11:33:06.185 -11:33:06.182 -11:33:06.183 -11:33:06.183 -11:33:06.183	Band           3         6           5         6           0         6           2         6           8         6           3         6           5         6           5         6	Cont. sens. mJy/beam - 0.073 0.020 0.037 0.074 0.036 0.915 0.234	Frequency support 217.11.233.47GHz 215.87.232.62GHz 216.58.234.44GHz 250.97.268.07GHz 215.87.232.63GHz 250.91.268.10GHz 215.81.232.69GHz 215.81.232.69GHz	2020-08-24 2018-11-10 2020-12-27 2020-08-26 2018-02-04 2020-02-21 2018-10-09 2020-01-04	1 0 1 1 0 1 1 0 1	arcsec- 0.968 0.050 0.114 0.394 0.177 4.346 4.725	Min. vel. res.           km/s-           0.183           0.159           0.159           0.634           0.159           0.634           0.159	Array         Mosaic           12m         12m           12m </td <td>3         4           Max. reco. scale           arcsec -         9.345           1.130         1           1.840         5.227           1.752         25.668           28.085         28.085</td> <td>FOV arcsec - 25.846 25.967 25.822 22.438 25.966 38.467 44.514 44.302</td> <td>Scientific category ISM and star formation Disks and planet format ISM and star formation Disks and planet format ISM and star formation Disks and planet format ISM and star formation</td> <td>Science keyword Outflows, jets and ioniz Exo-planets Disks around low-mass Outflows, jets and ioniz Exo-planets Outflows, jets and ioniz Disks around low-mass</td> <td>Int. Time           s-           302.400           2068.416          </td> <td>Gal. Ion. 224.606 224.606 224.606 224.606 224.606 224.606 224.606 224.606</td> <td>10 Gal. lat. -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557</td> <td>Min. fre kHz- 141.132 122.068 564.533 122.067 564.495 122.078</td>	3         4           Max. reco. scale           arcsec -         9.345           1.130         1           1.840         5.227           1.752         25.668           28.085         28.085	FOV arcsec - 25.846 25.967 25.822 22.438 25.966 38.467 44.514 44.302	Scientific category ISM and star formation Disks and planet format ISM and star formation Disks and planet format ISM and star formation Disks and planet format ISM and star formation	Science keyword Outflows, jets and ioniz Exo-planets Disks around low-mass Outflows, jets and ioniz Exo-planets Outflows, jets and ioniz Disks around low-mass	Int. Time           s-           302.400           2068.416	Gal. Ion. 224.606 224.606 224.606 224.606 224.606 224.606 224.606 224.606	10 Gal. lat. -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557	Min. fre kHz- 141.132 122.068 564.533 122.067 564.495 122.078

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

		<u>.</u> Х.			1 ~	er e																
			e - Mozilla Firefo Bookmarks Tools																		·····································	* ø 🛛
		Science Archive		Псір																		
Â	-		nascience.eso.org/as	sax/																C	+ 0	] =
l-						7																
		Q	Source name: 2	2 CMa + 11	tab-subfilter								1 22 6 41 🔿	Malaaniaa					Dedahiff		රි ද	
													FoV: 1.7'	Molecules		Lir	ies		0 Redshift		(estimated)	) -
													Q					6				
						1							I	CH2 SIO	C17	CO 0 120			N H H	H SH	- ș - Į	H H
													×	0H2DOH 5(4) 3CO v=0 2-1 3180 2-1 3180 v=0 5-4	ł v=0 N=2 .70 J=2-1	20 v2=1 5(5 2D+ J=3-2 0 v=0 2-1 0 v=1 2-1	v=0.4(2,2)	2000 H v 205(6)-4 2054 0054 0054 0054 0054	0H vt= 0CCH v 0=5/2-3/	Sigma Sigma 80+ 3-2	N 0=v }	)+ v=0 3
													×	4.1)-4(4 -1	×1,J=5/2	(5.0)-6(4	, J=26-25, I=2e 2,2)-3(1,3)	DH ywb S(2,3)-4(3,2) 5-4 10 12(1,12)-11(1,11) 0 5(2,4)-4(1,3) 0 5(2,4)-4(1,3)	9 2(0,2)- =0 6(2,5 2,&Ome	v=0 J=3-2 gma v=0 6(6) + 3-2	-0 N=3-2,3=5	03-2 13=3-2
														.0)o1	3/2,F=	j.	(=2e 3)	);4(3,2) 1(1,11) 3)	rt=0 2(0,2)-1(-1,1)- H v=0 6(2,5)-5(1,4) -3/2,Ω=1/2	-5(5)	(2-3/2.F	j.
							*								7/2-5/2		and and	2-13	+,F=7/2			
																			-5/2			
														220 GHz	225 GHz	230 GHz 235	5 GHz	240 GHz 245 GHz 2	50 GHz 255	GHz 260	GHz 21	165 GHz
													ALADIN	3 4	5 🛛 6	6 1 7	8		9		10	
	Obs	ervations (5)	Q Pro	ojects (4)		E Publ	cations (0)													m G	• 13	× ×
μ		n Column filters appl		.]==== ( .)																	- v	
		Project code	ALMA source name	Ra	Dec	Band	Cont. sens.	Frequency support	↑ Release date	Publications	Ang. res.	Min. vel. res.		c Max. reco. scale	FOV	Scientific cate	gory	Science keyword	Int. Time	Gal. Ion.	Gal. lat.	Min. fre
	⇔⇔			h:m:s -	d:m:s+		mJy/beam •				arcsec •	km/s -	12m 🛞	arcsec •	arcsec •				s*			kHz•
	$\oplus \leftrightarrow [$	2016.1.00110.S	Z_CMa	07:03:43.159	-11:33:06.18	86	0.036	215.87232.63GHz	2018-02-04	0	0.177	0.159	12m	1.752	25.966	Disks and plan	et format	. Exo-planets	635.040	224.606	-2.557	122.067
	$\oplus \leftrightarrow [$	2016.1.00110.S	Z_CMa	07:03:43.159	-11:33:06.18	56	0.020	215.87232.62GHz	2018-11-10	0	0.050	0.159	12m	1.130	25.967	Disks and plan	iet format	. Exo-planets	2068.416	224.606	-2.557	122.069
	$\oplus \leftrightarrow [$	2018.1.01131.S	Z_CMa	07:03:43.158	-11:33:06.18	36	0.073	217.11233.47GHz	2020-08-24	1	0.968	0.183	12m	9.345	25.846	ISM and star fo	ormation	Outflows, jets and ioniz	302.400	224.606	-2.557	141.132
	⊕ ↔ [	2018.1.01131.S	Z_CMa	07:03:43.158	-11:33:06.18	2 6	0.074	250.97268.07GHz	2020-08-26	1	0.394	0.634	12m	5.227	22.438	ISM and star fo	ormation	Outflows, jets and ioniz	302.400	224.606	-2.557	564.533
	⊕ ↔ [	2018.1.00814.S	ZCMA	07:03:43.200	-11:33:06.70	0 6	0.037	216.58234.44GHz	2020-12-27	1	0.114	0.159	12m	1.840	25.822	Disks and plan	et format	. Disks around low-mass	604.800	224.607	-2.557	122.068

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.

A.													10								
			re - Mozilla Firefo																		rd X
			Bookmarks Tools	<u>H</u> elp																	
	ALM	IA Science Archive	× (+																		
Â	•	) 🛈 🖴   https://alm	nascience. <b>eso.org</b> /as	ax/															G	₽ □	1 =
		Q	Source name: Z	CMa																<del>ر<mark>1</mark> م</del>	$\equiv$
													1 33 6.19	Molecules		Lines		Redshif	t		
												F	oV: 2.87	2	-			-0.00009		(estimated)	•
																	6				
					/								L L	CH200H C180 2-1 H2C0 3( Si0 V=0 5	CN v	902 -		CHC CH2	HC18	CH H	H H O
					11								-	3HZDOH 5(4 5180 2-1 12C0 3(0,3) 12C0 3(0,3) 12C0 3(0,3)		r=0.4(2) /2=1.5( )=3-2 0.2-1	5(6)-4( 0 5-4 1HO 12) 1HO 12) 1V7=2 1	9H vt=0 CCH v= 5/2-3/2	N v=0 ; 7(6)-6(1 0+ 3-2	v=0 N=3-	+ v=0 3-2 v=0 J=3-2
														.1)-4(4	1,,J=5/2	4(2,2)-3(1,3 1 5(5,0)-6(4 3-2 3-2	(6)-4(5) ) 5-4 +0 12(1.12)-11(1,11) +0 5(2,4)-11(1,11) v0 5(2,4)-11(1,11) v0 5(2,4)-12(5).F= v7=2 1=26-25.1=2e	+ vt=0 2(0,2)-1(-1,1) CH v=0 6(2,5)-5(1,4) 5/2-3/2,Ω=1/2 CH v=0 5(2,3)-4(3,2)	1=3-2 5)	10(1;9)-10(1;10 =0 N=3-2;J=5/2	12
														10(0	-3/2,F=	.3)	1(1,11) 1(1,11) 1(5),F=1	2(0,2)-1(-1,1)- 0 6(2,5)-5(1,4) Ω=1/2 0 5(2,3)-4(3,2)		.0) 12-312.F	
						$\langle \langle \rangle \rangle$	*								712-512		12-13	+,F=710		-3-2	
																		2-5/2			
							11														
							-														
													A1 4515	220 GH±	225 GHz 5 11 6	230 GHz 235 GHz	240 GHz 245 GHz	250 GHz 25 9	5 GHz 260	DGHz 26 10	5 GHz
													ALADIN							10	
	@ 0l	bservations (9)	♀ Pro	jects (4)		Publi	ications (0)			_			ALADIN								
	@ 0l								↑Release date	Publications	Ang. res.			3 4	5 🛛 6	<b>1</b> 7	8	9		10 }→ <i>4</i> 3	× ×
	● <b>o</b>	Project code	ALMA source name	Ra	Dec		Cont. sens.	Frequency support	↑Release date	Publications		Min. vel. res.		3 4	5 🛛 6			9 Int. Time		10	× ∧ Min. fre
	⇔⇔	Project code	ALMA source name	Ra h:m:s -	Dec d:m:s •	Band	Cont. sens.	Frequency support		Publications	arcsec -	Min. vel. res. km/s -	Array Mo	3 4 saic Max. reco. scale	5 6 FOV	Scientific category	8 Science keyword	9 Int. Time	Gal. lon.	10 ]	× ≈ Min. fre
		Project code → 2016.1.00110.S	ALMA source name	Ra h:m:s- 07:03:43.159	Dec	Band 3 6	Cont. sens.		2018-02-04			Min. vel. res.		3 4	5 6 FOV arcsec • 25.966	Scientific category	8 Science keyword	9 Int. Time 5- 635.040	Gal. lon. 224.606	10 → ⊘ Gal. lat. -2.557	× ∧ Min. fre
	⇔↔	Project code → 2016.1.00110.S → 2016.2.00168.S	ALMA source name Z_CMa z_cma	Ra h:m:s - 07:03:43.159 07:03:43.159	Dec d:mcs - -11:33:06.188	Band 3 6 5 6	Cont. sens. mJy/beam - 0.036	Frequency support	2018-02-04	0	arcsec -	<b>Min. vel. res.</b> km/s - 0.159	Array Mo 12m	3 4 saic Max. reco. scala arcsec - 1.752	5 6 FOV arcsec - 25.966 44.514	Scientific category	Science keyword	9 Int. Time 5- 635.040 is 1572.480	Gal. lon. 224.606	10 → <i>2</i> .557 -2.557	
		Project code → 2016.1.00110.5 → 2016.2.00168.5 → 2016.1.00110.5	ALMA source name Z_CMa z_cma Z_CMa	Ra h:mcs- 07:03:43.159 07:03:43.159 07:03:43.159	Dec d:m:s - -11:33:06.188 -11:33:06.185	Band 3 6 5 6 5 6	Cont. sens. mJy/beam - 0.036 0.234	Frequency support	2018-02-04	0	arcsec - 0.177 4.725	Min. vel. res. km/s - 0.159 0.159	Array Moa 12m 7m	3 4 saic Max. reco. scale arcsec - 1.752 28.085	5 0 6 FOV arcsec - 25.966 44.514 25.967	Scientific category Disks and planet form Disks and planet form	Science keyword nat Exo-planets nat Disks around low-mas nat Exo-planets	9 Int. Time 5- 635.040 2068.410	Gal. Ion. 224.606 224.606 5 224.606	10 Gal. lat. -2.557 -2.557 -2.557	
		Project code → 2016.1.00110.5 → 2016.2.00168.5 → 2016.1.00110.5 → 2018.1.01131.5	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:mcs- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	Dec dimis- -11:33:06.188 -11:33:06.185	Band 3 6 5 6 5 6 4 6	Cont. sens. mJy/beam - 0.036 0.234 0.020	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04	0	arcsec - 0.177 4.725 0.050	Min. vel. res. km/s - 0.159 0.159 0.159	Array Mod 12m 7m 12m	3 4 acce - 1.752 28.085 1.130	5 0 6 FOV arcsec - 25.966 44.514 25.967	Scientific category Disks and planet form Disks and planet form Disks and planet form	Science keyword Science keyword nat Exo-planets nat Disks around low-mas nat Exo-planets n Outflows, jets and ioni	9 Int. Time 5- 635.040 is 1572.484 2068.414 z 393.120	Gal. Ion. 224.606 224.606 224.606 224.606	10 Cal. lat. Cal. lat. -2.557 -2.557 -2.557 -2.557	Min. fre kHz - 122.067 122.065
	$ \begin{array}{c}                                     $	Project code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S 2018.1.01131.S 2018.1.01131.S	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:mcs- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	Dec dim:s- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184	Band 3 6 5 6 5 6 4 6 3 6	Cont. sens. mJy/beam- 0.036 0.234 0.020 0.833	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz 217.11.233.54GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21	0	arcsec - 0.177 4.725 0.050 5.065	Min. vel. res. km/s - 0.159 0.159 0.159 0.183	Array         Model           12m         -           7m         -           12m         -           7m         -	3 4 arcsec - 1.752 28.085 1.130 29.811	<b>FOV</b> arcsec - 25.966 44.514 25.967 44.302	Scientific category Disks and planet form Disks and planet form Disks and planet form Disks and planet form ISM and star formatio	Science keyword nat Exo-planets nat Disks around low-mas nat Exo-planets n Outflows, jets and ioni n Outflows, jets and ioni	9 Int. Time 5- 635.040 Ss 1572.48/ 2068.411 Z 393.120 Z 302.400	Gal. Ion.           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606	10 Cal. lat. Cal. lat. -2.557 -2.557 -2.557 -2.557	➢ ♠ Min. fre kHz - 122.067 122.065 141.110
	$\begin{array}{c} \oplus \ \oplus $	Project code 2016.1.00110.5 2016.2.00168.5 2016.1.00110.5 2018.1.01131.5 2018.1.01131.5 2018.1.01131.5	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:m:s- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.158	Dec d:m:s- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184 -11:33:06.184	Band 5 6 5 6 4 6 3 6 3 6	Cont. sens. mJy/beam • 0.036 0.234 0.020 0.833 0.915	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz 217.11.233.54GHz 250.91.268.10GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21 2020-08-24	0	arcsec - 0.177 4.725 0.050 5.065 4.346	Min. vel. res. km/s- 0.159 0.159 0.159 0.183 0.634	Array         Mos           12m         -           7m         -           12m         -           7m         -           7m         -           7m         -           7m         -           7m         -           7m         -	3         4           Baic         Max. reco. scale           arcsec -         1.752           28.085         1.130           29.811         25.668	5 0 6 FOV arcsec - 25.966 44.514 25.967 44.302 38.467 25.846	Scientific category Disks and planet form Disks and planet form Disks and planet form Disks and planet form ISM and star formatio ISM and star formatio	Science keyword Science keyword nat Exo-planets nat Disks around low-mass nat Exo-planets n Outflows, jets and ioni n Outflows, jets and ioni n Outflows, jets and ioni	9 Int. Time 5- 635.040 is 1572.48( 2068.414 2 393.120 2 302.400 2 302.400	Gal. Ion.           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606	10 3	Min. fre kHz - 122.067 122.076 122.066 141.110 564.495
	$\begin{array}{c} \begin{array}{c} \bullet \\ \bullet $	Project code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S 2018.1.01131.S 2018.1.01131.S 2018.1.01131.S 2018.1.01131.S	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:m:5- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.158 07:03:43.158	Dec d:m:s- -11:33:06.1885 -11:33:06.1855 -11:33:06.1855 -11:33:06.1844 -11:33:06.1843 -11:33:06.1843	Band 5 6 5 6 4 6 3 6 3 6 3 6	Cont. sens. mJy/beam - 0.036 0.234 0.020 0.833 0.915 0.073	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz 217.11.233.54GHz 250.91.268.10GHz 217.11.233.47GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21 2020-08-24	0 0 1 1 1	arcsec - 0.177 4.725 0.050 5.065 4.346 0.968	Min. vel. res. km/s - 0.159 0.159 0.159 0.183 0.634 0.183	Array         Mo           12m         1           12m         1           12m         1           7m         1           7m         1           7m         1	3         4           Baic         Max. reco. scale           arcsec -         1.752           28.085         1.130           29.811         25.668           9.345         1.345	5 0 6 FOV arcsec - 25.966 44.514 25.967 44.302 38.467 25.846	Scientific category Disks and planet form Disks and planet form Disks and planet form Disks and planet form ISM and star formatio ISM and star formatio	Science keyword Science keyword nat Exo-planets nat Disks around low-mas nat Exo-planets n Outflows, jets and ioni n Outflows, jets and ioni n Outflows, jets and ioni n Outflows, jets and ioni	9 Int. Time 5- 635.040 is 1572.481 2068.414 2 393.120 2 302.400 2 302.400 2 302.400 302.400	Gal. Ion.           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606           224.606		<ul> <li>Min. fre</li> <li>kHz -</li> <li>122.067</li> <li>122.065</li> <li>141.110</li> <li>564.495</li> <li>141.132</li> </ul>
	$\begin{array}{c} \oplus \ \oplus $	Project code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S 2018.1.01131.S 2018.1.01131.S 2018.1.01131.S 2018.1.01131.S	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:m:s- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.158 07:03:43.158 07:03:43.158	Dec d:m:s- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.183 -11:33:06.183 -11:33:06.183	Band           3         6           5         6           5         6           4         6           3         6           3         6           3         6           3         6           3         6           2         6	Cont. sens. mJy/beam- 0.036 0.234 0.020 0.833 0.915 0.073 0.377	Frequency support           215.87.232.63GHz           215.81.232.69GHz           215.81.232.69GHz           215.81.232.62GHz           217.11.233.54GHz           250.91.268.10GHz           217.11.233.47GHz           250.91.268.10GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21 2020-08-24 2020-08-24 2020-08-24	0 0 1 1 1	arcsec - 0.177 4.725 0.050 5.065 4.346 0.968 20.255	Min. vel. res.           kmv/s -           0.159           0.159           0.159           0.159           0.183           0.634           0.634	Array         Mor           12m         1           12m         1           7m         1           12m         1           12m         1           12m         1	3         4           Baic         Max. reco. scale           arcsec -         1.752           28.085         1.130           29.811         25.668           9.345         359.023	<ul> <li>FOV</li> <li>arcsec -</li> <li>25.966</li> <li>44.514</li> <li>25.967</li> <li>44.302</li> <li>38.467</li> <li>25.846</li> <li>22.439</li> <li>22.438</li> </ul>	Scientific category Disks and planet form Disks and planet form Disks and planet form Disks and planet form Disks and star formatio ISM and star formatio ISM and star formatio ISM and star formatio	Science keyword Science keyword nat Exo-planets nat Disks around low-mas nat Exo-planets n Outflows, jets and ioni n Outflows, jets and ioni n Outflows, jets and ioni n Outflows, jets and ioni	Int. Time           s-           635.040           is           1572.481           2068.411           z           302.400           z           302.400           z           302.400           z           302.400	Gal. Ion.       224.606       224.606       224.606       224.606       224.606       224.606       224.606       224.606       224.606       224.606       224.606       224.606	Image: Constraint of the sector of	<ul> <li>Min. fre</li> <li>kHz -</li> <li>122.067</li> <li>122.065</li> <li>141.110</li> <li>564.495</li> <li>141.132</li> <li>564.527</li> </ul>

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.

1			1					Sec.		Set 1												
				e - Mozilla Firefo																	∭ ⊼ ₅ <sup>⊭</sup>	d X
Ð				<u>B</u> ookmarks <u>T</u> ools	<u>H</u> elp																	
Ρ	<b>—</b> ,		cience Archive																			
1	) 1	<b>()</b>	) 🔒   https://alm	ascience.eso.org/as	sax/															C	₽ □	≡
			Q	Source name: 2	Z CMa															ć	<mark>၊ိ</mark> ု လိ	$\equiv$
													07 03 43.158 -1	$\sim$	Molecules		Lines		Redshift			
													F	FoV: 2.87'		•			-0.00009		(estimated) *	
							/		1					I I				6				
						- /								Ó	CH2DC C180 2 C180 2 Si0 v=0	CN-V=0		450 5 450 5 02 V	0-HCC0	HISSN 7	нксо : осн у	HCO+ V
														*	9H 5(4,1) 9(0,3)-2(0 ) 5-4	N=2-1	(7=2)=26-25)=2e (7=2)=26-25)=2e 0 4(2,2)=3(1,3) 0 4(2,2)=3(1,3) = 4 = 5(5,0)=6(4,3) = 3-2 = 3-2 = 2-1	CH v=0 (6)-4(5) 5-4 10 12(1 0 5(2,4)	1 vt=0 2 CH v=0 CH v=0	v=0 J=3 (6)-6(5)	-0 N=3	/=0 3-2 -0 J=3-2
														*	(0.2)	,J=5/2-	9(5)-14( 26-25.) -3(1.3) 0)-6(4.)	H v=0 5(2.3)-4(3.2) 9-4(5) 5-4 9-12(1.12)-11(1.11) 5(2.4)-4(1.3)	(0,2)-1(-1,1) - 6(2,5)-5(1,4) Ω:=1/2-	3-2	10(1,10 2,3=5/2	2
															10	9/2,F=7	=2e	4(3.2)	1(-1,-1) 5)-5(1,-4)		)  -3/2,F=	
								*								12-5/2	έ		.F=7/2.		9-2	
																			5/2			
								11														
															220 GHz 3 4	225 GHz		40 GHz 245 GHz 250 C			3Hz 265 G 10	Hz
														ALACAT		T						
	٢	Obs	ervations (9)	Pro	ojects (4)	(	🗏 Publi	cations (0)													}• <i>4</i> 8 ≥	*
		P	roject 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. Time	Gal. Ion.	Gal. lat.	Min. fre
	$\oplus$	$\leftrightarrow$			h:m:s •	d:m:s •		mJy/beam •				arcsec -	km/s •		arcsec -	arcsec •			s •			kHz •
	$\oplus$	$\leftrightarrow$	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.

							/ · · · · · · · · · · · · · · · · · · ·																
	ALM	MA So	cience Archive	e - Mozilla Firefo	x																	************************************	" ø" 🗵
Ele	e <u>E</u>	dit <u>v</u>	iew Hi <u>s</u> tory	Bookmarks <u>T</u> ools	<u>H</u> elp																		
J	<u>s</u> A	ALMA S	cience Archive	× +																			
Â	r (	<b>(</b> ) (	) 🔒   https://alma	ascience. <b>eso.org</b> /as	ax/																C	<b>↓</b> □	≡
	_		Q	Source name: Z	CMa																م	<mark>_1</mark>	≡
			`											1 33 6.19 🔮	Molecules		Lii	nes		Redshift			
													F	oV: 2.87'		•				-0.00009		(estimated)	•
														Q					6				
														1	CH2 C180 SIO	CI7	0 0 20	8 - 24		N H		e te	HCN
						_//								~	H2DOH 5 180 2-1 2CO 3(0.3 10 V=0 5-4	v=0 N=2	0 v2=1.5 0+J=3-2 v=0-2-1	v=0.4(	05(6)-4 05(6)-4 05(6)-4 05(6)-4 05(6)-4	OH vt=	SN v=0 D 7(6)-6 80+ 3-2	6-101-0-1	+ v=0 3
							1							»	5(4.1)-4( .3)-2(0.2)	241,0=5	(5,0)-6(	v –v 13(2)-12(2), 17=2 J=26-25,1=2 0 4(2,2)-3(1,3)	H v=0 5(2.3) ))-4(5) )-4(5) +14 +12(1.12)-11 +12(1.12)-11 5(2,4)-4(1.3) 5(2,4)-4(1.3)	0 2(0,2) =0 6(2,	J=3-2 (5)	N=3-2, J=	0 3-2 J=3-2
															4.0)01	/2-3/2,F	(4.3)	5,1=2e .3)	v=05(2.3)-4(3.2) -4(5) -4 -4 -4 -4 -4 -4 -4 -4 -4 -12(1.12)-11(1.11) -12(2.4)-4(1.3) -12(2.4)-4(1.3) -12(2.4)-4(1.3) -12(2.4)-4(1.2) -12(2.4)-4(1.2) -12(2.4)-4(1.2) -12(2.4)-4(1.2) -12(2.4)-4(1.2) -12(2.4)-4(1.2) -12(2.4)-4(1.2) -12(2.4)-4(1.2) -12(2.4)-4(1.2)-12(1.4)-1	2(0,2)-1(-1,1) ) 6(2,5)-5(1,4) Ω=1/2		.10) 5/2-3/2	
								+								=712-5		c1-21-	2) 1)	) 4) /2+;F=1		F=3-2	
																Ň				7/2-5/2			
																225 GHz			240 GHz 245 GHz 250 G		3Hz 260 (		
														ALADIN	3 4								
	۲	Obse												al a		5 0	6 7	8	g	)		10	<u> </u>
ľ			ervations (9)	🖓 Proj	jects (4)		🗏 Publi	ications (0)								0	7	8	9	9		+ <i>4</i> 3	* *
			ervations (9)	🖗 Proj	iects (4)		🗄 Publi	ications (0)					La construction de la constructi			5 0		8	3	9	- C		* *
		P	roject code	Proj		Dec			Frequency support	↑ Release date	Publications	Ang. res.			Max. reco. scale		Scientific cate		Science keyword			↓ <i>4</i> 3	× ×
	$\oplus$	P			Ra		Band			↑Release date	Publications	Ang. res.			Max. reco. scale							↓ <i>4</i> 3	
		$\leftrightarrow$		ALMA source name	Ra h:m:s -	Dec	Band	Cont. sens.			Publications		Min. vel. res.			FOV arcsec •		egory		Int. Time	Gal. Ion.	↓ <i>4</i> 3	Min. fre
	Φ	$\leftrightarrow$	roject code	ALMA source name	Ra h:m:s- 07:03:43.159	Dec d:m:s •	Band 3 6	Cont. sens. mJy/beam •	Frequency support	2018-02-04		arcsec +	Min. vel. res.	Array Mosaic	arcsec •	FOV arcsec - 25.966	Scientific cate	egory net format	Science keyword	Int. Time	Gal. Ion.	∲ <i>43</i> Gal. lat.	Min. fre kHz •
	⊕ ⊕	$\leftrightarrow$	roject code	ALMA source name Z_CMa z_cma	Ra h:m:s- 07:03:43.159	Dec d:m:s- -11:33:06.188 -11:33:06.185	Band 3 6 5 6	Cont. sens. mJy/beam • 0.036	Frequency support	2018-02-04 2018-10-09	0	arcsec - 0.177	Min. vel. res. km/s - 0.159	Array Mosaic	arcsec • 1.752	FOV arcsec - 25.966 44.514	Scientific cate	e <b>gory</b> net format	Science keyword	Int. Time 5- 635.040 1572.480	Gal. Ion.	Gal. lat.	Min. fre kHz • 122.06
	<ul><li>⊕</li><li>⊕</li><li>⊕</li></ul>		roject code 2016.1.00110.S 2016.2.00168.S	ALMA source name	Ra h:mcs- 07:03:43.159 07:03:43.159 07:03:43.159	Dec d:m:s- -11:33:06.188 -11:33:06.185	Band 3 6 5 6 5 6	Cont. sens. mJy/beam - 0.036 0.234	Frequency support 215.87232.63GHz 215.81232.69GHz	2018-02-04 2018-10-09 2018-11-10	0	arcsec - 0.177 4.725	Min. vel. res. km/s - 0.159 0.159	Array Mosaic	arcsec - 1.752 28.085	FOV arcsec - 25.966 44.514	Scientific cate Disks and plar	egory net format net format	Science keyword Exo-planets Disks around low-mass	Int. Time 5- 635.040 1572.480	Gal. Ion. 224.606 224.606	Gal. lat.	Min. fre kHz - 122.061 122.074
	$\oplus$ $\oplus$ $\oplus$ $\oplus$		roject code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:m:s- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	Dec d:ms- -11:33:06.188 -11:33:06.185	Band 3 6 5 6 5 6 4 6	Cont. sens. mJy/beam - 0.036 0.234 0.020	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04	0	arcsec - 0.177 4.725 0.050	Min. vel. res. km/s - 0.159 0.159 0.159	Array Mosaic 12m 7m 12m	arcsec - 1.752 28.085 1.130	FOV arcsec - 25.966 44.514 25.967 44.302	Scientific cate Disks and plar Disks and plar	egory net format net format net format prmation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416	Gal. Ion. 224.606 224.606 224.606 224.606	Gal. lat. -2.557 -2.557	Min. fre kHz • 122.067 122.069
	$\oplus$ $\oplus$ $\oplus$ $\oplus$ $\oplus$ $\oplus$	$\begin{array}{c} \leftrightarrow \\ \leftrightarrow \\ \bullet \\$	roject code 2016.1.00110.5 2016.2.00168.5 2016.1.00110.5 2018.1.01131.5	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra htms- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	Dec d:ms- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184	Band 5 6 5 6 4 6 3 6	Cont. sens. mJy/beam - 0.036 0.234 0.020 0.833	Frequency support           215.87.232.63GHz           215.81.232.69GHz           215.87.232.62GHz           217.11.233.54GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04	0 0 0	arcsec - 0.177 4.725 0.050 5.065	Min. vel. res. km/s - 0.159 0.159 0.159 0.183	Array Mosaic 12m 7m 12m 7m	arcsec - 1.752 28.085 1.130 29.811	FOV arcsec - 25.966 44.514 25.967 44.302	Scientific cate Disks and plar Disks and plar Disks and plar ISM and star fo	egory net format net format ormation	Science keyword Exo-planets Exo-planets Outflows, jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416 393.120	Gal. Ion. 224.606 224.606 224.606 224.606 224.606	Gal. lat. -2.557 -2.557 -2.557	Min. fre kHz - 122.061 122.074 122.069 141.110
	$ \begin{array}{c}                                     $		roject code 2016 1 00110 S 2016 2 00168 S 2016 1 00110 S 2018 1 01131 S 2018 1 01131 S	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra htms- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	Dec d:ms - -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184 -11:33:06.184	Band 5 6 5 6 4 6 3 6	Cont. sens. mJy/beam- 0.036 0.234 0.020 0.833 0.915	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz 217.11.233.54GHz 250.91.268.10GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21 2020-08-24	0 0 0	arcsec - 0.177 4.725 0.050 5.065 4.346	Min. vel. res. km/s - 0.159 0.159 0.159 0.183 0.634	Array Mosaic 12m 7m 12m 7m 7m 7m 7m	arcsec - 1.752 28.085 1.130 29.811 25.668	FOV 25.966 44.514 25.967 44.302 38.467	Scientific cate Disks and plar Disks and plar Disks and plar ISM and star fo ISM and star fo	egory het format het format ormation prmation prmation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, jets and ioniz Outflows, jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416 393.120 302.400 302.400	Gal. Ion. 224.606 224.606 224.606 224.606 224.606 224.606	-2.557 -2.557 -2.557 -2.557 -2.557	Min. fre
	$\begin{array}{c} \Phi \\ \Phi $		roject code 2016.1.00110.S 2016.2.00168.S 2016.1.00110.S 2018.1.01131.S 2018.1.01131.S 2018.1.01131.S	ALMA source name Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	Ra h:m:s- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.158	Dec d:ms- -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.183 -11:33:06.183	Band       3     6       5     6       5     6       4     6       3     6       3     6	Cont. sens. mJy/beam - 0.036 0.234 0.020 0.833 0.915 0.073	Frequency support 215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz 217.11.233.54GHz 250.91.268.10GHz 217.11.233.47GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21 2020-08-24 2020-08-24	0 0 1 1 1	arcsec - 0.177 4.725 0.050 5.065 4.346 0.968	Min. vel. res. km/s - 0.159 0.159 0.159 0.183 0.634 0.183	Array Mosaic 12m 12m 12m 7m 7m 12m 12m	arcsec - 1.752 28.085 1.130 29.811 25.668 9.345	FOV arcsec - 25.966 44.514 25.967 44.302 38.467 25.846 22.439	Scientific cate Disks and plar Disks and plar Disks and plar ISM and star fo ISM and star fo	egory net format net format prmation prmation prmation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, jets and ioniz Outflows, jets and ioniz Outflows, jets and ioniz Outflows, jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416 393.120 302.400 302.400	Gal. Ion. 224.606 224.606 224.606 224.606 224.606 224.606	-2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557	Min. fre kHz - 122.074 122.074 122.069 141.110 564.499 141.133
	$\begin{array}{c} \Phi \\ \Phi $		roject code 2016 1.00110 S 2016 2.00168 S 2016 1.00110 S 2018 1.01131 S 2018 1.01131 S 2018 1.01131 S 2018 1.01131 S	ALMA source name Z_CMa	Ra hms- 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.158 07:03:43.158 07:03:43.158	Dec -11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.183 -11:33:06.183 -11:33:06.183	Band           3         6           5         6           5         6           4         6           3         6           3         6           3         6           3         6           3         6           3         6           3         6           3         6	Cont. sens. mJy/beam- 0.036 0.234 0.020 0.833 0.915 0.073 0.377	Frequency support           215.87.232.63GHz           215.81.232.69GHz           215.81.232.69GHz           215.81.232.69GHz           217.11.233.54GHz           250.91.268.10GHz           217.11.233.47GHz           250.91.268.10GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21 2020-08-24 2020-08-24 2020-08-24	0 0 1 1 1 1	arcsec - 0.177 4.725 0.050 5.065 4.346 0.968 20.255	Min. vel. res. http://www.s- 0.159 0.159 0.159 0.183 0.634 0.183 0.634	Array Mosaic 12m 12m 12m 7m 7m 12m 12m 12m TP	arcsec - 1.752 28.085 1.130 29.811 25.668 9.345 359.023	Fov arcsec - 25.966 44.514 25.967 44.302 38.467 25.846 22.439 22.438	Scientific cate Disks and plar Disks and plar Disks and star fc ISM and star fc ISM and star fc ISM and star fc	egory net format net format ormation ormation ormation ormation	Science keyword Exo-planets Disks around low-mass Exo-planets Outflows, jets and ioniz Outflows, jets and ioniz Outflows, jets and ioniz Outflows, jets and ioniz	Int. Time 5- 635.040 1572.480 2068.416 393.120 302.400 302.400 302.400 302.400	Gal. Ion. 224.606 224.606 224.606 224.606 224.606 224.606 224.606	<ul> <li>■</li> <li>■</li></ul>	Min. fre kHz- 122.067 122.067 122.067 141.110 564.495 141.133 564.527

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.

																					/ \
			e - Mozilla Firef																	∭ ⊼ ď	
			Bookmarks Tools	s <u>H</u> elp																. /	
J	S ALMA	Science Archive	× \+																		
1	•	🛈 🔒   https://alm	ascience. <b>eso.org</b> /a	sax/															C	4	<b>≤</b> ≡
Г		Q	Source name:	Z CMa															ć	<mark>_1</mark>	≡
												07 03 43.158 -1		lolecules		Lines		Redshift			
													=oV: 2.87' ⊕		•			-0.00009		(estimated)	
								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					I I	9 - 0 0			6		тωт		
													Ó	H2DOF 180 2- 12CO 3	10 v=1 : N v=0 i	C3N v7=2 02 v=0 4() 20 v2=1 5 20 v2=1 5 20 v=0 2-1	450 5( 5 v=0 5 12CH0	H30H-	136N v 450 7(0	CH V=	
					11								*	+ 5(4,1)-4( 0,3)-2(0,2) 5-4	2-1 N=2-1,J	r=2 J=26-; 4(2,2)-3(1 4(5,0)-6 3-2 2-1	H v=0 8 6)-4(5) 5-4 5-4 5-4 5-4 5-4 5-4 5-4 5-4 5-4 5-4	vt=0.2(0 H v=0.6(	-0 J=3 5)-6(5) 3-2	10(1.9)-1	-0 3-2 ) J=3-2
														-4(4.0)	=5/2-3	6-25, =2 3(1,3) <mark>-6(4,3)</mark>	v=0 5(2,3)-4(3,2) -4(5) 4 4 12(1,12)-11(1,11) 12(1,12)-11(1,11) 12(1,12)-11(1,11)	(0,2)-1(-1,1) 6(2,5)-5(1,4)	ź	0(1,10) ,J=5/2-	
														91	2,F=7/	2*	(3.2) 	(1.4) (1.4)		3/2,F=	
							*								2-5/2		<b>5</b>	-7/2.6		12	
																		5			
							1														
														220 GHz 2	25 GHz 230	GHz 235 GHz	240 GHz 245 GHz 250 G	Hz 255 G	Hz 260 0	Hz 265	2He
														3 4		7 8				10	
												1000									
	@ Ob	servations (9)	∏ V Pri	ojects (4)		드 Publi	cations (0)													• 43 ·	
		Project code	ALMA source name	Ra	Dec	Band	0														* *
	$\oplus \leftrightarrow$						Cont. sens.	Frequency support	↑ Release date	Publications	Ang. res.	Min. vel. res.	Array Mosaic	Max. reco. scale	FOV Sc	ientific category	Science keyword	Int. Time	Gal. Ion.	Gal. lat.	≶
	<i>.</i>			h:m:s -	d:m:s +		mJy/beam•	Frequency support	↑Release date	Publications	Ang. res.	Min. vel. res.	Array Mosaic	Max. reco. scale	FOV Sc	ientific category	Science keyword	Int. Time	Gal. Ion.	Gal. lat.	
	⇔⊕	2016.1.00110.S	Z_CMa		d:m:s+	6		Erequency support		Publications 0			Array Mosaic		arcsec •	ientific category iks and planet format.			Gal. Ion.	<b>Gal. lat.</b> -2.557	Min. fre
	⇔⇔	2016.1.00110.S 2016.2.00168.S	-	07:03:43.159			mJy/beam •		2018-02-04		arcsec +	km/s •		arcsec +	arcsec • 25.966 Dis		Exo-planets	s *	224.606		Min. fre kHz •
	+		z_cma	07:03:43.159 07:03:43.159	-11:33:06.188	5 6	mJy/beam • 0.036	215.87232.63GHz 215.81232.69GHz	2018-02-04	0	arcsec + 0.177	km/s - 0.159	12m	arcsec - 1.752	arcsec • 25.966 Dis 44.514 Dis	sks and planet format.	Exo-planets	s• 635.040	224.606 224.606	-2.557	Min. fre kHz • 122.067
	↔	2016.2.00168.S	z_cma Z_CMa	07:03:43.159 07:03:43.159 07:03:43.159	-11:33:06.188 -11:33:06.185	5656	mJy/beam • 0.036 0.234	215.87232.63GHz 215.81232.69GHz	2018-02-04 2018-10-09	0	arcsec - 0.177 4.725	km/s - 0.159 0.159	12m 7m	arcsec - 1.752 28.085	arcsec - 25.966 Dis 44.514 Dis 25.967 Dis	sks and planet format.	Exo-planets Disks around low-mass	s• 635.040 1572.480	224.606 224.606	-2.557 -2.557	Min. fre kHz - 122.067 122.078
	$\oplus \leftrightarrow$ $\oplus \leftrightarrow$	2016.2.00168.S 2016.1.00110.S	z_cma Z_CMa Z_CMa	07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	-11:33:06.188 -11:33:06.185 -11:33:06.185	5 6 5 6 4 6	mJy/beam - 0.036 0.234 0.020	215.87232.63GHz 215.81232.69GHz 215.87232.62GHz 217.11233.54GHz	2018-02-04 2018-10-09 2018-11-10	0 0 0	arcsec - 0.177 4.725 0.050	km/s - 0.159 0.159 0.159	12m 7m 12m	arcsec - 1.752 28.085 1.130	arcsec - 25.966 Dis 44.514 Dis 25.967 Dis 44.302 ISM	iks and planet format. iks and planet format.	Exo-planets Disks around low-mass Exo-planets	s- 635.040 1572.480 2068.416	224.606 224.606 224.606	-2.557 -2.557 -2.557	Min. fre kHz - 122.067 122.078 122.065
	$\begin{array}{c} \bullet \\ \bullet $	2016.2.00168.S 2016.1.00110.S 2018.1.01131.S	z_cma Z_CMa Z_CMa Z_CMa	07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159	-11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184	5 6 5 6 4 6 3 6	mJy/beam - 0.036 0.234 0.020 0.833	215.87232.63GHz 215.81232.69GHz 215.87232.62GHz 217.11233.54GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21	0 0 0	arcsec - 0.177 4.725 0.050 5.065	km/s- 0.159 0.159 0.159 0.159	12m 7m 12m 7m	arcsec - 1.752 28.085 1.130 29.811	arcsec - 25.966 Dis 44.514 Dis 25.967 Dis 44.302 ISM 38.467 ISM	iks and planet format. Iks and planet format. Iks and planet format. A and star formation	Exo-planets Disks around low-mass Exo-planets Outflows, jets and ioniz	s- 635.040 1572.480 2068.416 393.120 302.400	224.606 224.606 224.606 224.606 224.606	-2.557 -2.557 -2.557 -2.557	Min. fre kHz - 122.067 122.078 122.069 141.110
	$\begin{array}{c} \bullet \\ \bullet $	2016.2.00168.S 2016.1.00110.S 2018.1.01131.S 2018.1.01131.S	z_cma Z_CMa Z_CMa Z_CMa Z_CMa	07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.158	-11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184 -11:33:06.183	5 6 5 6 4 6 3 6 3 6	mJy/beam - 0.036 0.234 0.020 0.833 0.915	215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz 215.87.232.62GHz 217.11.233.54GHz 250.91.268.10GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21 2020-08-24	0 0 0	arcsec - 0.177 4.725 0.050 5.065 4.346	km/s - 0.159 0.159 0.159 0.159 0.183 0.634	12m 7m 12m 7m 7m	arcsec - 1.752 28.085 1.130 29.811 25.668	arcsec - 25.966 Dis 44.514 Dis 25.967 Dis 44.302 ISM 38.467 ISM 25.846 ISM	iks and planet format. Iks and planet format. Iks and planet format. A and star formation A and star formation	Exo-planets     Disks around low-mass     Exo-planets     Outflows, jets and ioniz     Outflows, jets and ioniz	s- 635.040 1572.480 2068.416 393.120 302.400 302.400	224.606 224.606 224.606 224.606 224.606	-2.557 -2.557 -2.557 -2.557 -2.557 -2.557	Min. fre kHz - 122.067 122.065 122.065 141.110 564.495
	$\begin{array}{c} \bullet \\ \bullet $	2016.2.00168.S 2016.1.00110.S 2018.1.01131.S 2018.1.01131.S 2018.1.01131.S	z_cma Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.158 07:03:43.158	-11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184 -11:33:06.183 -11:33:06.183	5 6 5 6 4 6 3 6 3 6 3 6	mJy/beam- 0.036 0.234 0.020 0.833 0.915 0.073	215.87.232.63GHz 215.81.232.69GHz 215.87.232.62GHz 215.87.232.62GHz 217.11.233.54GHz 250.91.268.10GHz 217.11.233.47GHz	2018-02-04 2018-10-09 2018-11-10 2020-01-04 2020-02-21 2020-08-24	0 0 1 1 1	arcsec - 0.177 4.725 0.050 5.065 4.346 0.968	km/s- 0.159 0.159 0.159 0.183 0.634 0.183	12m 7m 12m 7m 7m 7m 7m 12m	arcsec - 1.752 28.085 1.130 29.811 25.668 9.345	arcsec -         Dis           25.966         Dis           44.514         Dis           25.967         Dis           44.302         ISM           38.467         ISM           25.846         ISM           22.439         ISM	isks and planet format. Isks and planet format. Isks and planet format. And star formation A and star formation A and star formation	Exo-planets     Disks around low-mass     Exo-planets     Outflows, jets and ioniz     Outflows, jets and ioniz     Outflows, jets and ioniz	s- 635.040 1572.480 2068.416 393.120 302.400 302.400	224.606 224.606 224.606 224.606 224.606 224.606 224.606	-2.557 -2.557 -2.557 -2.557 -2.557 -2.557	Min. fre kHz - 122.067 122.065 141.110 564.495 141.132
	$\begin{array}{c} \bullet \\ \bullet $	2016 2.00168.S 2016 1.00110.S 2018 1.01131.S 2018 1.01131.S 2018 1.01131.S 2018 1.01131.S	z_cma Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa Z_CMa	07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.159 07:03:43.158 07:03:43.158 07:03:43.158	-11:33:06.188 -11:33:06.185 -11:33:06.185 -11:33:06.184 -11:33:06.183 -11:33:06.183 -11:33:06.183	5 6 5 6 4 6 3 6 3 6 3 6 2 6	mJy/beam - 0.036 0.234 0.020 0.833 0.915 0.073 0.377	215.87.232.63GHz 215.81.232.69GHz 215.81.232.62GHz 215.87.232.62GHz 217.11.233.54GHz 250.91.268.10GHz 217.11.233.47GHz 250.91.268.10GHz	2018-02-04           2018-10-09           2018-11-10           2020-01-04           2020-02-21           2020-08-24           2020-08-24           2020-08-24	0 0 1 1 1 1	arcsec - 0.177 4.725 0.050 5.065 4.346 0.968 20.255	km/s- 0.159 0.159 0.159 0.183 0.634 0.183 0.634	12m 7m 12m 7m 7m 7m 12m 12m 7m	arcsec - 11.752 28.085 1.130 29.811 25.668 9.345 359.023	arcsec -           25.966         Dis           44.514         Dis           25.967         Dis           44.302         ISM           38.467         ISM           22.439         ISM           22.439         ISM	iks and planet format. Iks and planet format. Iks and planet format. A and star formation A and star formation A and star formation A and star formation A and star formation	Exo-planets     Disks around low-mass     Exo-planets     Outflows, jets and ioniz     Outflows, jets and ioniz     Outflows, jets and ioniz     Outflows, jets and ioniz	5- 635.040 1572.480 2068.416 393.120 302.400 302.400 4380.672 302.400	224.606 224.606 224.606 224.606 224.606 224.606 224.606 224.606	-2.557 -2.557 -2.557 -2.557 -2.557 -2.557 -2.557	Min. fre kHz - 122.067 122.065 141.110 564.495 141.132 564.527

The new page displays the data associated with the entries selected in the search interface. Data are sorted by Science Goal, Group OUS, and Member OUS. (A Member OUS is a unit of data containing one SB.)

😻 Alma Request Handler - Request	Details - Mozilla Firefox		조 막 집
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks	pols <u>H</u> elp		
🕵 ALMA Science Archive 🛛 🗙 🖉 Alma Re	juest Handler 🗙 🔶 🕂		
♠ (♦ (i) ●   https://almascience.eso.c	rg/rh/submission		C 🖡 🛄 🗄
ALMA Request Handler			Lini
			Login
Anonymous User: Request #215	4895553204 🗹		
Request Title: click to edit			
Download Selected			
Download Selected			
✓ readme ✓ product ✓ auxiliary 🗌 raw	raw (semipass) external		
Project / OUSet / Executionblock	File	Size	Accessible
🔻 回 🚞 Request 2154895553204		5 GiB	
Project 2018.1.01131.S			
🔻 🖲 🚞 Science Goal OUS uid://A001/X13	5b/X60		
🔻 🖲 🚞 Group OUS uid://A001/X135b/X	61		
Member OUS uid://A001/X13	5b/X64		
SB V1647_Or_a_06_TM2			
🥑 💾 readme	member.uid A001_X135b_X64.README.txt	258 B	⊻
🕨 🗹 📄 product	2018.1.01131.5_uidA001_X135b_X64_001_of_001.tar	2 GiB	⊻
🕨 🗹 💾 auxiliary	2018.1.01131.5_uidA001_X135b_X64_auxiliarytar	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	memberuid A001_X135b_X66.README.txt	3 KiB	⊻
🕨 🗹 🕒 product	2018.1.01131.5_uidA001_X135b_X66_001_of_001.tar	222 MiB	⊀
🕨 🗹 💾 auxiliary	2018.1.01131.5_uidA001_X135b_X66_auxiliarytar	177 MIB	≮
🔲 💾 raw	2018.1.01131.S_uidA002_XdBfc22_X5da.asdm.sdm.tar	777 MiB	×
🔻 🖲 🚞 Group OUS uid://A001/X135b/X			
🔻 😑 🚞 Member OUS uid://A001/X13	56/X6b		
SB Z_CMa_a_06_TM2			
🗹 💾 readme	memberuldA001X135bX6b.README.txt	258 B	⊻
🕨 🧭 📄 product	2018.1.01131.S_uidA001_X135b_X6b_001_of_001.tar	2 GiB	×
🕨 🗹 🕒 auxiliary	2018.1.01131.S_uidA001_X135b_X6b_auxiliarytar	347 MiB	⊻
🔲 💾 raw	2018.1.01131.S_uidA002_Xd98580_X354.asdm.sdm.tar	7 GIB	×
🔻 📄 🚞 Member OUS uid://A001/X13	5b/X6d		
▶ SB Z_CMa_b_06_7M			
🕑 🛅 readme	member.uidA001_X135b_X6d.README.txt	258 B	×
► 🗹 🛅 product	<u>2018.1.01131.S_uidA001_X135b_X6d_001_of_001.tar</u>	209 MiB	×
🕨 🥑 🛅 auxiliary	<u>2018.1.01131.S_uidA001_X135b_X6d_auxiliarytar</u>	147 MIB	×
🔲 💾 raw	2018.1.01131.5_uidA002_Xd3c7c2_X5388.asdm.sdm.tar	677 MiB	×

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

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.

Alma Request Handler - Request			소 막 역
ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u>			
🔜 ALMA Science Archive 🛛 🗙 Alma Req	juest Handler × +		
	rg/rh/submission		C 🖡 🗖
ALMA Request Handler			Log
Anonymous User: Request #215	4895553204 🗹		
Request Title: click to edit			
Download Selected			
Download Selected			
✓ readme ✓ product ✓ auxiliary — raw	raw (semipass) external		
Project / OUSet / Executionblock	File	Size	Accessible
🔻 回 🚞 Request 2154895553204		9 GiB	
🔻 📄 🚞 Project 2018.1.01131.S			
🔻 📄 🚞 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	<b>×</b>
🔲 💾 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.