

The ALMA Science Archive

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The ALMA Science Archive is located at <https://almascience.eso.org/aq/>.
 The default view shows the entire contents of the archive.

The screenshot displays the ALMA Science Archive interface. On the left, there is a spectral plot showing intensity versus frequency (GHz) from 100 to 900 GHz. The plot is divided into ten frequency channels, numbered 3 to 10. Various molecular lines are labeled above the plot, including HCO+, CS, CO, SiO, HCN, CH3OH, H2CO, CH3CN, and H2O. The right side of the interface shows a search bar, a 'Download' button, and a 'Redshift' dropdown menu set to 'estimated'. Below the plot, there are navigation options for 'Observations (80914)', 'Projects (4928)', and 'Publications (3988)'. A table of observations is displayed below, with columns for Project code, ALMA source name, RA, Dec, Band, Cont. sens., Frequency support, Release date, Publication Ang. res., Min. vel. res., Array, Mosaic, Max. reco. scale, FOV, Scientific category, and Science keyword.

Project code	ALMA source name	RA	hms	Dec	dm-s	Band	Cont. sens. mJy/beam	Frequency support	Release date	Publication Ang. res. arcsec	Min. vel. res. km/s	Array	Mosaic	Max. reco. scale arcsec	FOV arcsec	Scientific category	Science keyword
2011.0.00191.S	Fomalhaut b	22:57:38.685	-29:37:12.616	7	0.1181		348.077-358.839 GHz	2012-12-06	2	1.047	0.816	12m		10.639	16.592	Disks and planet formation	Debris disks, Exoplanets
2011.0.00191.S	R Scl	01:26:58.079	-32:32:36.424	7	0.9115		330.246-346.109 GHz	2012-12-06	5	1.043	0.846	12m	mosaic	11.517	62.007	Stars and stellar evolution	Asymptotic Giant Branch
2011.0.00101.S	GRB021004	00:26:54.680	+18:55:41.600	7	0.1136		337.009-353.001 GHz	2012-12-06	2	1.107	26.541	12m		9.257	16.878	Active galaxies	Starburst galaxies, Gamm
2011.0.00397.S	J041754.10-281655.9	04:17:54.100	-28:16:55.900	7	0.4848		337.023-353.008 GHz	2012-12-20	3	1.118	26.541	12m		7.842	16.877	Active galaxies	Active Galactic Nuclei (A
2011.0.00397.S	J035448.24-330827.2	03:54:48.240	-33:08:27.200	7	0.4848		337.026-353.011 GHz	2012-12-20	3	1.128	26.541	12m		7.950	16.877	Active galaxies	Active Galactic Nuclei (A
2011.0.00397.S	J063027.81-212058.6	06:30:27.810	-21:20:58.600	7	0.5346		337.007-352.992 GHz	2012-12-20	3	1.183	26.541	12m		8.015	16.878	Active galaxies	Active Galactic Nuclei (A
2011.0.00397.S	J061200.23-062209.6	06:12:00.230	-06:22:09.600	7	0.5346		337.005-352.989 GHz	2012-12-20	3	1.183	26.541	12m		7.819	16.878	Active galaxies	Active Galactic Nuclei (A
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2011.0.00397.S	J070257.20-280842.3	07:02:57.200	-28:08:42.300	7	0.5346		337.006-352.991 GHz	2012-12-20	3	1.154	26.541	12m		8.053	16.878	Active galaxies	Active Galactic Nuclei (A

The interface has three sections:

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

The screenshot displays the ALMA Science Archive web interface. The top section features a search bar and navigation icons. The main content is divided into three sections:

- Sky Viewer:** A large image of the ALMA antenna array with a central yellow diamond-shaped region. Coordinates are shown as RA: 00 00 0.661, Dec: -06 18 20.89, and FoV: 176.66".
- Spectral Viewer:** A plot showing spectral lines from 100 GHz to 900 GHz. The plot is divided into 10 frequency bins. The following table lists the molecules and transitions identified in each bin:

Bin	Molecules	Transitions
3	HCN	J=0-0
4	CO	v=0-0
5	CS	v=0-0
6	CO	v=0-0
7	HCN	v=0-0
8	H ₂ O	v=0-0
9	CH ₃ CN	v=0-0
10	CH ₃ OH	v=0-0

Below the spectral viewer is a navigation bar with counts for Observations (80914), Projects (4928), and Publications (3988). The bottom section is a table of observation results:

Project code	ALMA source name	RA	hms	Dec	dms	Band	Cont.sens. mJy/beam	Frequency support	Release date	Publication Ang.res.	arcsec	Min.vel.res. km/s	Array	Mosaic	Max.reco.scale arcsec	FOV arcsec	Scientific category	Science keyword
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The results table actually has three tabs:

- Observation
- Project
- Publication

The screenshot displays the ALMA Science Archive interface. On the left, there is a spectral plot showing intensity versus frequency (GHz) from 100 to 900 GHz. The plot is divided into ten vertical bands, numbered 3 to 10. Above the plot, there are dropdown menus for 'Molecules', 'Lines', and 'Redshift'. The 'Redshift' dropdown is set to '0' and 'estimated'. The plot shows several absorption lines, with labels for various molecules and transitions such as CS, CO, SiO, HCO, CHOH, H₂CO, CH₃OH, 13CH₃OH, C₂H₂, C₂H, H₂NCN, CO, H₂O, and SO. Below the plot, there are three tabs: 'Observations (80914)', 'Projects (4928)', and 'Publications (3988)'. The 'Projects' tab is selected, showing a table of project information.

Project Code	Project Title	Type	Joint proposals	PI Name	Proposal authors	↑ Max.Release Da	Publications	Observations	SB names
2011.0.00236.S	The Dynamics of Massive Starless Cores	S		Tan, Jonathan	Butler, Michael; Fontani...	2013-01-23	4	7	Project236_ES_v2_ks
2011.0.00268.S	Metallicity of a Submillimeter Galaxy at z=5	S		Nagao, Tohru	De Breuck, Carlos; Hats...	2013-02-09	3	4	LESS J0332-2756
2011.0.00454.S	(Why) Is CenA a source of Ultra High Energy Cosmic Rays: Shock acceleration, jet and UHECR composition	S		Nagar, Neil	Smith, Rory; Finlez, Car...	2013-02-14	1	8	Band 6 CenA - CO knot S1
2011.0.00851.S	The Origin of the Destroyed Minor Planet at G29-38: a Main Belt or Kuiper Belt Analog?	S		Farihi, Jay	Greeves, Jane; Bonsor, ...	2013-02-14	1	8	G29-38 Band 6 RA=23: Run x2, G29-38 Band 7 RA=23: Run x5
2011.0.00294.S	More than LESS: The first fully-identified submillimetre survey	S		Smail, Ian	Rix, Hans-Walter; Chap...	2013-02-15	20	140	Targets1-16, Targets1-16 Targets17-32, Targets112-126, Target:
2011.0.00510.S	Probing the Molecular Outflows of the Coldest Known Object in the Universe: The Boomerang Nebula	S		Sahai, Raghvendra	Nyman, Lars-Ake; Vlem...	2013-03-13	2	6	B3 1 SB of 1 - Boomerang Nebula CO 1-0, B6 1 SB of 1 Boome
2011.0.00131.S	Piecing the shell together: ALMA and the detached shell around R Scl	S		Maercker, Matthias	Ramstedt, Sofia; Paladi...	2013-03-29	5	14	R Scl B3 Spec 1: Run x2, R Scl B6: Run x3, R Scl B7: Run x4
2011.0.00808.S	Probing the vertical structure of Saturn's storm with ALMA	S		Cavalié, Thibault	Moreno, Raphael; Fouc...	2013-04-23	0	4	GROUP_1_SB: Run directly after GROUP_2_SB, GROUP_1_SB: Ri
2011.0.00101.S	Shedding Light on Distant Starburst Galaxies Hosting Gamma-ray Bursts v9	S		Wang, Wei-Hao	Huang, Kuiyun; Chen, H...	2013-05-01	2	8	GRB021004, GRB080607

The results table actually has three tabs:

- Observation
- Project
- Publication

The screenshot displays the ALMA Science Archive interface. On the left, there is a spectral plot showing intensity versus frequency (GHz) from 100 to 900 GHz. The plot is divided into 10 channels, each labeled with a number and a list of molecules and transitions. The molecules listed include CO, HCO, HCN, HNC, H2CO, CH3OH, CH3CN, and H2O. The plot shows several absorption lines, with the most prominent ones in the 300-500 GHz range.

On the right, there is a table of publications. The table has columns for BibCode, First Author, Journal, Year, Publication Title, Max. Release Date, Projects, Observations, and Authors. The table is sorted by Max. Release Date in descending order.

BibCode	First Author	Journal	Year	Publication Title	↑ Max. Release Date	Projects	Observations	Authors
2013ApJ...779...96T	Tan, Jonathan C.	ApJ	2013	The Dynamics of Massive Starless Cores with ALMA	2013-01-23	1	7	Tan, Jonathan C.; Kong, Shuo; Butler, Michael J.; Caselli, Paola; Fontani, Francesco
2016ApJ...828..100F	Feng, Siyi	ApJ	2016	Outflow Detection in a 70 μ m Dark High-Mass Core	2013-01-23	1	7	Feng, Siyi; Beuther, Henrik; Zhang, Qizhou; Liu, Haiyu; Baobab; Zhang, Zhiyu; Wang,
2016ApJ...821..94K	Kong, Shuo	ApJ	2016	The Deuterium Fraction in Massive Starless Cores and Dynamical Implications	2013-01-23	1	7	Kong, Shuo; Tan, Jonathan C.; Caselli, Paola; Fontani, Francesco; Pillai, Thushara; Butl
2012A&A...542L..34N	Nagao, T.	A&A	2012	ALMA reveals a chemically evolved submillimeter galaxy at $z = 4.76$	2013-02-09	1	4	Nagao, T.; Maiolino, R.; De Brueck, C.; Caselli, P.; Hatsukade, B.; Saigo, K.
2016A&A...586A..45S	Salomé, Q.	A&A	2016	Star formation efficiency along the radio jet in Centaurus A	2013-02-14	1	8	Salomé, Q.; Salomé, P.; Combes, F.; Hamer, S.; Heywood, I.
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	8	Farihi, J.; Wyatt, M. C.; Greaves, J. S.; Bonsor, A.; Sibthorpe, B.; Panic, O.
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	140	Danielson, A. L. R.; Swinbank, A. M.; Smail, Ian; Simpson, J. M.; Casey, C. M.; Chapma
2016MNRAS...462.1192L	Lindroos, L.	MNRAS	2016	Estimating sizes of faint, distant galaxies in the submillimetre regime	2013-02-15	1	140	Lindroos, L.; Knudsen, K. K.; Fan, L.; Conway, J.; Coppin, K.; Decarli, R.; Drouart, G.; Hc
2014ApJ...788..125S	Simpson, J. M.	ApJ	2014	An ALMA Survey of Submillimeter Galaxies in the Extended Chandra Deep Field South: The Redshift Distribu...	2013-02-15	1	140	Simpson, J. M.; Swinbank, A. M.; Smail, Ian; Alexander, D. M.; Brandt, W. N.; Bertoldi,

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.

The screenshot displays the ALMA Science Archive website. At the top, there is a search bar and a 'Download' button. Below the search bar, a spectral plot is shown with a frequency range from 0 to 900 GHz. The plot features several labeled peaks corresponding to different molecules and lines. A yellow arrow points to the 'Project' column in the table below.

Molecules | **Lines** | **Redshift**

0 | estimated

3 4 5 6 7 8 9 10

100 GHz 200 GHz 300 GHz 400 GHz 500 GHz 600 GHz 700 GHz 800 GHz 900 GHz

Observations (80914) | **Projects (4928)** | **Publications (3988)**

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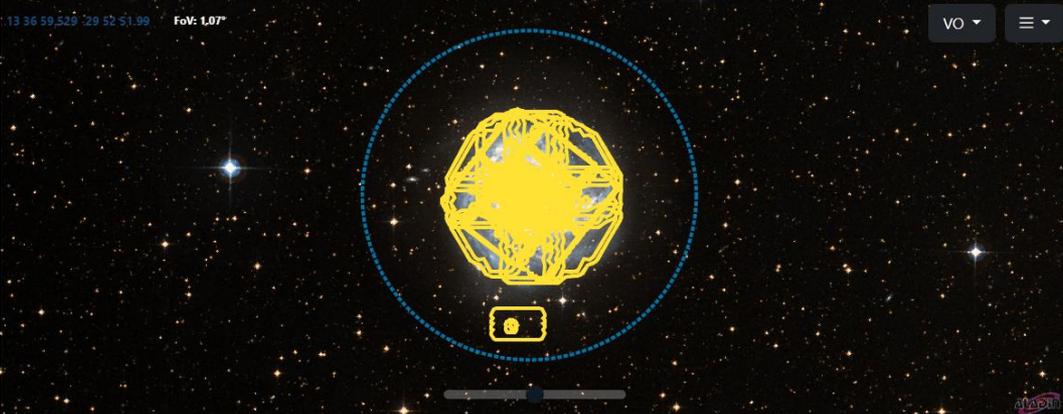
When the number of results in the results table changes, the map and spectrum panels will automatically adjust to show the observed fields and spectra in more detail.

ALMA Science Archive

https://almascience.eso.org/aq/result_view=observations&sourceNameResolver=M83

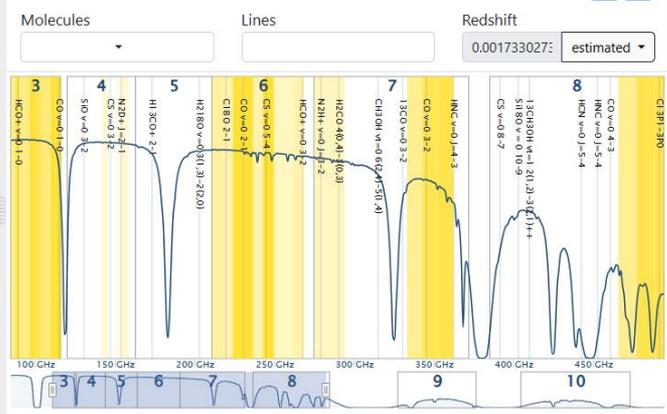
Search Source name: M83

13:36:59.529 -29:52:51.99 FoV: 1.07''



VO

Molecules Lines Redshift



Observations (128) Projects (26) Publications (72)

	Project code	ALMA source name	RA	hms	Dec	dms	Band	Cont.sens. mJy/beam	Frequency support	Release date	Publication Ang.res. arcsec	Min.vel.res. km/s	Array	Mosaic	Max.reco.scale arcsec	FOV arcsec	Scientific category	Science keyword			
<input type="checkbox"/>	<input type="button" value="🔍"/>	<input type="button" value="📄"/>	<input type="button" value="📅"/>	<input type="button" value="📍"/>	<input type="button" value="📉"/>	<input type="button" value="📊"/>	<input type="button" value="📑"/>	<input type="button" value="🔍"/>	<input type="button" value="📄"/>	<input type="button" value="📅"/>	<input type="button" value="📍"/>	<input type="button" value="📉"/>	<input type="button" value="📊"/>	<input type="button" value="📑"/>	<input type="button" value="🔍"/>	<input type="button" value="📄"/>	<input type="button" value="📅"/>	<input type="button" value="📍"/>	<input type="button" value="📉"/>	<input type="button" value="📊"/>	<input type="button" value="📑"/>
<input type="checkbox"/>	2011.0.00772.S	M83	13:37:04.763	-29:51:45.340	3	0.2781	100.627..115.393 GHz	2019-09-26	6	1.146	1.269	12m	mosaic	17.187	196.704	ISM and star formation	Giant Molecular Clouds				
<input type="checkbox"/>	2012.1.00762.S	m83	13:37:04.534	-29:50:23.433	3	0.2201	99.919..115.551 GHz	2015-05-16	4	0.554	1.267	12m	mosaic	14.620	390.161	Local Universe	Spiral galaxies, Giant Mo				
<input type="checkbox"/>	2013.1.01312.S	M83	13:37:03.885	-29:51:36.973	3	0.0376	85.644..101.394 GHz	2016-05-09	1	2.490	3.274	12m	mosaic	25.525	176.743	Local Universe	Spiral galaxies, Giant Mo				
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<input type="checkbox"/>	2013.1.01312.S	M83	13:37:04.185	-29:51:40.023	3	0.2963	85.586..101.452 GHz	2016-05-04	1	8.044	3.273	7m	mosaic	92.854	204.864	Local Universe	Spiral galaxies, Giant Mo				
<input type="checkbox"/>	2013.1.01161.S	M83	13:37:00.750	-29:51:57.995	6	2.1803	229.25..247.187 GHz	2016-07-31	52	4.997	1.369	7m	mosaic	34.911	263.795	Active galaxies	Starbursts, star formation				
<input type="checkbox"/>	2013.1.01161.S	M83	13:37:00.742	-29:51:57.876	6	0.4043	229.31..247.128 GHz	2016-07-31	52	1.045	1.369	12m	mosaic	9.960	250.960	Active galaxies	Starbursts, star formation				
<input type="checkbox"/>	2013.1.00889.S	M83	13:37:05.500	-29:51:23.550	3	0.0218	95.915..111.56 GHz	2016-08-05	0	1.280	3.034	12m	mosaic	13.069	121.175	Galaxy evolution	Galaxy chemistry				
<input type="checkbox"/>	2013.1.00889.S	M83	13:37:05.500	-29:51:23.550	3	0.0288	87.831..91.457 GHz	2016-08-05	0	1.382	3.701	12m	mosaic	14.605	130.000	Galaxy evolution	Galaxy chemistry				

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

The screenshot shows the ALMA Science Archive interface for source M83. The main panel displays a spectral plot with a control panel on the left and a list of observations at the bottom.

Control Panel:

- Optical: DSS colored → Infrared: AllWISE-color
- Ultraviolet: GALEX-GR6-Color native
- Optical: DSS colored native
- Infrared: AllWISE-color native

Spectral Plot:

The plot shows flux density versus frequency (GHz) from 100 to 450 GHz. The redshift is estimated as 0.001733027. The plot includes a list of identified spectral lines with their corresponding molecules and redshifts:

Line ID	Molecule	Redshift
3	HCO+ v=0-1-0	
4	CO v=0-3-2	
5	H2CO v=0-0-0	
6	CS v=0-5-4	
7	CO v=0-3-2	
8	HNC v=0-1-4-3	
9	SiO v=0-0-10-9	
10	HNC v=0-1-5-4	

Observations Table:

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2013.1.01312.S	M83	13:37:03.885	-29:51:36.973	3	0.0376		85.644..101.394 GHz	2016-05-09	1	2.490	3.274	12m	mosaic	25.525	176.743	Local Universe	Spiral galaxies, Giant Mo	
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2013.1.01161.S	M83	13:37:00.742	-29:51:57.876	6	0.4043		229.31..247.128 GHz	2016-07-31	52	1.045	1.369	12m	mosaic	9.960	250.960	Active galaxies	Starbursts, star formation	
2013.1.00889.S	M83	13:37:05.500	-29:51:23.550	3	0.0218		95.915..111.56 GHz	2016-08-05	0	1.280	3.034	12m	mosaic	13.069	121.175	Galaxy evolution	Galaxy chemistry	
2013.1.00889.S	M83	13:37:05.500	-29:51:23.550	3	0.0288		87.831..91.457 GHz	2016-08-05	0	1.382	3.701	12m	mosaic	14.605	130.000	Galaxy evolution	Galaxy chemistry	

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

The screenshot displays the ALMA Science Archive interface for source M83. The top left shows the search bar with 'Source name: M83' and a 'Download' button. The main view is split into two panels. The left panel shows a spectral map of the source, with a yellow outline of the ALMA array and a blue dashed circle indicating the field of view (FOV). The right panel shows a spectral plot with a yellow background, displaying various spectral lines. The plot is labeled with 'Molecules', 'Lines', and 'Redshift'. The redshift is set to '0.001733027' (estimated). The plot shows a range of frequencies from 85 GHz to 115 GHz, with several spectral lines identified. Below the plot, there are numbered boxes (3, 4, 5, 6, 7, 8, 9, 10) corresponding to different frequency ranges. Below the main view, there are tabs for 'Observations (128)', 'Projects (26)', and 'Publications (72)'. A table of observations is displayed below, with columns for Project code, ALMA source name, RA, Dec, Band, Cont. sens., Frequency support, Release date, Publication Ang. res., Min. vel., Array, Mosaic, Max. reco. scale, FOV, Scientific category, and Science keyword.

Project code	ALMA source name	RA	hms	Dec	dms	Band	Cont. sens. mJy/beam	Frequency support	Release date	Publication Ang. res. arcsec	Min. vel. res. km/s	Array	Mosaic	Max. reco. scale arcsec	FOV arcsec	Scientific category	Science keyword
2011.0.00772.S	M83	13:37:04.763	-29:51:45.340	3	0.2781	100.627..115.393 GHz	2019-09-28	6	1.146	1.269	12m	mosaic	17.187	196.704	ISM and star formation	Giant Molecular Clouds	
2012.1.00762.S	m83	13:37:04.534	-29:50:23.433	3	0.2201	99.919..115.551 GHz	2019-05-16	4	0.554	1.267	12m	mosaic	14.620	390.161	Local Universe	Spiral galaxies, Giant Mo	
2013.1.01312.S	M83	13:37:03.885	-29:51:36.973	3	0.0376	85.644..101.394 GHz	2016-05-09	1	2.490	3.274	12m	mosaic	25.525	176.743	Local Universe	Spiral galaxies, Giant Mo	
2012.1.00762.S	m83	13:37:04.458	-29:50:23.465	3	1.2334	99.854..115.581 GHz	2016-05-12	4	9.539	1.266	7m	mosaic	80.615	402.933	Local Universe	Spiral galaxies, Giant Mo	
2013.1.01312.S	M83	13:37:04.185	-29:51:40.023	3	0.2963	85.586..101.452 GHz	2016-06-04	1	8.044	3.273	7m	mosaic	92.854	204.864	Local Universe	Spiral galaxies, Giant Mo	
2013.1.01161.S	M83	13:37:00.750	-29:51:57.995	6	2.1803	229.25..247.187 GHz	2016-07-31	52	4.997	1.369	7m	mosaic	34.911	263.795	Active galaxies	Starbursts, star formation	
2013.1.01161.S	M83	13:37:00.742	-29:51:57.876	6	0.4043	229.31..247.128 GHz	2016-07-31	52	1.045	1.369	12m	mosaic	9.960	250.960	Active galaxies	Starbursts, star formation	
2013.1.00889.S	M83	13:37:05.500	-29:51:23.550	3	0.0218	95.915..111.56 GHz	2016-08-05	0	1.280	3.034	12m	mosaic	13.069	121.175	Galaxy evolution	Galaxy chemistry	
2013.1.00889.S	M83	13:37:05.500	-29:51:23.550	3	0.0288	87.831..91.457 GHz	2016-08-05	0	1.382	3.701	12m	mosaic	14.605	130.000	Galaxy evolution	Galaxy chemistry	

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.

ALMA Science Archive

https://almascience.eso.org/aq/result_view=observations&sourceNameResolver=M83

Search Source name: M83

13:36:59.529 -29:52:51.99 FoV: 1.07''

VO

Molecules Lines Redshift

Observations (128) Projects (26) Publications (72)

	Project code	ALMA source name	RA	hms	Dec	dms	Band	Cont.sens. mJy/beam	Frequency support	Release date	Publication Ang.res. arcsec	Min.vel.res. km/s	Array	Mosaic	Max.reco.scale arcsec	FOV arcsec	Scientific category	Science keyword				
<input type="checkbox"/>	<input type="button" value="refresh"/>	<input type="button" value="download"/>	<input type="button" value="print"/>	<input type="button" value="share"/>	<input type="button" value="info"/>	20110.00772.S	M83	13:37:04.76	-29:51:45.340	3	0.2781	100.627..115.393 GHz	2019-09-28	6	1.146	1.269	12m	mosaic	17.187	196.704	ISM and star formation	Giant Molecular Clouds
<input type="checkbox"/>	<input type="button" value="refresh"/>	<input type="button" value="download"/>	<input type="button" value="print"/>	<input type="button" value="share"/>	<input type="button" value="info"/>	20121.100762.S	m83	13:37:04.458	-29:50:23.433	3	0.2201	99.919..115.551 GHz	2015-05-16	4	0.554	1.267	12m	mosaic	14.620	390.161	Local Universe	Spiral galaxies, Giant Mo
<input type="checkbox"/>	<input type="button" value="refresh"/>	<input type="button" value="download"/>	<input type="button" value="print"/>	<input type="button" value="share"/>	<input type="button" value="info"/>	2013.101312.S	M83	13:37:04.458	-29:51:36.973	3	0.0376	85.644..101.394 GHz	2016-05-09	1	2.490	3.274	12m	mosaic	25.525	176.743	Local Universe	Spiral galaxies, Giant Mo
<input type="checkbox"/>	<input type="button" value="refresh"/>	<input type="button" value="download"/>	<input type="button" value="print"/>	<input type="button" value="share"/>	<input type="button" value="info"/>	2012.100762.S	m83	13:37:04.458	-29:50:23.465	3	1.2334	99.854..115.581 GHz	2016-05-12	4	9.539	1.266	7m	mosaic	80.615	402.933	Local Universe	Spiral galaxies, Giant Mo
<input type="checkbox"/>	<input type="button" value="refresh"/>	<input type="button" value="download"/>	<input type="button" value="print"/>	<input type="button" value="share"/>	<input type="button" value="info"/>	2013.101312.S	M83	13:37:04.185	-29:51:40.023	3	0.2963	85.586..101.452 GHz	2016-05-04	1	8.044	3.273	7m	mosaic	92.854	204.864	Local Universe	Spiral galaxies, Giant Mo
<input type="checkbox"/>	<input type="button" value="refresh"/>	<input type="button" value="download"/>	<input type="button" value="print"/>	<input type="button" value="share"/>	<input type="button" value="info"/>	2013.101161.S	M83	13:37:00.750	-29:51:57.995	6	2.1803	229.25..247.187 GHz	2016-07-31	52	4.997	1.369	7m	mosaic	34.911	263.795	Active galaxies	Starbursts, star formation
<input type="checkbox"/>	<input type="button" value="refresh"/>	<input type="button" value="download"/>	<input type="button" value="print"/>	<input type="button" value="share"/>	<input type="button" value="info"/>	2013.101161.S	M83	13:37:00.742	-29:51:57.876	6	0.4043	229.31..247.128 GHz	2016-07-31	52	1.045	1.369	12m	mosaic	9.960	250.960	Active galaxies	Starbursts, star formation
<input type="checkbox"/>	<input type="button" value="refresh"/>	<input type="button" value="download"/>	<input type="button" value="print"/>	<input type="button" value="share"/>	<input type="button" value="info"/>	2013.100889.S	M83	13:37:05.500	-29:51:23.550	3	0.0218	95.915..111.56 GHz	2016-08-05	0	1.280	3.034	12m	mosaic	13.069	121.175	Galaxy evolution	Galaxy chemistry
<input type="checkbox"/>	<input type="button" value="refresh"/>	<input type="button" value="download"/>	<input type="button" value="print"/>	<input type="button" value="share"/>	<input type="button" value="info"/>	2013.100889.S	M83	13:37:05.500	-29:51:23.550	3	0.0288	87.831..91.457 GHz	2016-08-05	0	1.382	3.701	12m	mosaic	14.605	130.000	Galaxy evolution	Galaxy chemistry

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

The screenshot displays the ALMA Science Archive interface. On the left, a star field is shown with a yellow molecular cloud structure overlaid. The main panel features a spectral plot with labeled lines for various molecules and transitions. A table below the plot lists observation details. A yellow arrow points to the first row of the table, which is highlighted in yellow.

Project 2013.1.01312.S
Project title: Wide-field imaging of dense gas in the nearby barred galaxy M83
PI name: Hirota, Akihiko
Proposal abstract: We propose to make a sensitive mosaic observations of the nearby barred galaxy M83 in HCN (J=1-0). The cycle0 observations of M83 in 12CO (1-0) enabled us to identify ~200 giant molecular clouds (GMCs) over wide range of galactic environments. Comparison with the HI line regions indicated that progress of star formation strongly depends on the ratio between two time scales, namely free-fall time and crossing-time. In addition, by adopting a star formation law (SF-law) which relates, SFR, gas mass, and the two time scales, excellent agreement between the observation and the model were obtained for the radial distribution based analyses. Motivated by this finding, we aim to investigate the formation process of dense gas in terms of its environmental dependence, with the deep HCN observation. Since gas clouds denser than 1e4 cm^-3 is known to be the basic unit of star formation, to verify the environmental dependence of SF-law, it is more essential to clarify the formation process of such dense gas. By comparing the deep HCN data with the CO data, and with the already available working hypothesis (time scale dependence of SF), we will address the formation process of dense gas.
Acknowledgement: This paper makes use of the following ALMA data: ADS/JAO.ALMA#2013.1.01312.S ALMA is a partnership of ESO (representing its member states), NSF (USA) and NINS (Japan), together with NRC (Canada), MOST and ASIAA (Taiwan), and KASI (Republic of Korea), in cooperation with the Republic of Chile. The Joint ALMA Observatory is operated by ESO, AUI/NRAO and NAOJ. In addition, publications from this project must include the standard NRAO acknowledgement: The National Radio Astronomy Observatory is a facility of the National Science Foundation operated under cooperative agreement by Associated Universities, Inc.

Support	Release date	Publications	Ang.res.	arcsec	Min.vel.res.	km/s	Array	Mosaic	Max.reco.scale				
7.115.393 GHz	2013-09-28	6	1.146		1.269		12m	mosaic	17.187				
3.115.551 GHz	2015-05-16	4	0.554		1.267		12m	mosaic	13.493				
4.101.394 GHz	2016-05-09	1	2.490		3.274		12m	mosaic	25.525				
4.115.581 GHz	2016-05-12	4	8.360		1.266		7m	mosaic	80.615				
2013.1.01312.S M83	13:37:04.185 -29:51:40.023	3	0.2963		85.596.101.452 GHz		2016-06-04	1	11.153	3.273	7m	mosaic	92.854
2013.1.01161.S M83	13:37:00.750 -29:51:57.995	6	2.1803		229.25.247.187 GHz		2016-07-31	42	4.997	1.369	7m	mosaic	34.911
2013.1.01161.S M83	13:37:00.742 -29:51:57.876	6	0.4043		229.31.247.128 GHz		2016-07-31	42	1.045	1.369	12m	mosaic	9.960
2013.1.00889.S M83	13:37:05.500 -29:51:23.550	3	0.0218		95.915.111.56 GHz		2016-08-05	0	1.280	3.034	12m	mosaic	13.070
2013.1.00889.S M83	13:37:05.500 -29:51:23.550	3	0.0288		87.831.91.457 GHz		2016-08-05	0	1.382	3.701	12m	mosaic	14.605
2013.1.00889.S M83	13:37:05.500 -29:51:23.550	3	0.0155		84.556.100.109 GHz		2016-08-05	0	1.338	3.881	12m	mosaic	15.636

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

The screenshot displays the ALMA Science Archive interface for observation M83. The main content area shows details for two spectral windows (SPW):

- SPW 0:** 112.354..114.229GHz, 1,128.906 kHz, XX YY. It includes a link to the data file and technical specifications: Band: 3, Frequency type: line, Frequency range: 112.354..114.229, Frequency resolution: 1,128.906 kHz, Continuum sensitivity: 0.283, Line sensitivity 10km/s (estimate): 9.28 mJy/beam@10km/s, Line sensitivity native (estimate): 0.417 uJy/beam@native, Polarizations: XX YY, Array: 12m.
- SPW 1:** 113.808..115.793GHz, 31,250 kHz, XX YY. It includes a link to the data file and technical specifications: Frequency type: continuum, Frequency range: 113.808..115.793, Frequency resolution: 31,250 kHz, Continuum sensitivity: 0.283, Line sensitivity 10km/s (estimate): 10.309 mJy/beam@10km/s, Line sensitivity native (estimate): 0.451 uJy/beam@native, Polarizations: XX YY, Array: 12m.

The 'Observations' table at the bottom lists several observation entries. A yellow arrow points to the 'C' icon in the row for observation ID 20171.00079.5, M83_CTR, which is highlighted in yellow. This icon is used to launch CARTA for detailed data inspection.

Observation ID	Source Name	RA (hh:mm:ss)	Dec (dd:mm:ss)	Band	Frequency Range (GHz)	Resolution (km/s)	Array	Mosaic	Max. reco. scale (arcsec)	FOV (arcsec)	Scientific category	Science keyword
20171.00079.5	M83	13:36:59.529	-29:52:06.979	3	112.354..115.793	31.250	12m	mosaic	26.393	588.436	Local Universe	Spiral galaxies, Giant Mo
20171.00079.5	M83	13:36:59.254	-29:54:50.022	3	112.355..115.793	31.250	12m	mosaic	17.748	580.927	Local Universe	Spiral galaxies, Giant Mo
20171.00079.5	M83_CTR	13:37:00.512	-29:51:59.645	3	112.355..115.793	31.250	12m		17.602	51.045	Local Universe	Spiral galaxies, Giant Mo
20171.00079.5	M83_CTR	13:37:00.512	-29:51:59.645	3	112.292..115.793	31.250	7m		63.051	87.531	Local Universe	Spiral galaxies, Giant Mo
20171.00079.5	M83	13:36:59.310	-29:52:07.873	3	112.292..115.793	31.250	7m	mosaic	68.097	630.529	Local Universe	Spiral galaxies, Giant Mo
20171.00079.5	M83	13:36:59.515	-29:52:07.122	3	112.292..115.793	31.250	7m	mosaic	67.721	624.921	Local Universe	Spiral galaxies, Giant Mo

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

ALMA Science Archive

https://almascience.eso.org/aq/?result_view=observations&sourceNameResolver=M83&observationsSortProp=spatialResolution&observationsSortDir=asc

Search

13:36:59.529 -29:52:51.99 FoV: 1.07''

Observations (128) Projects (26) Publications (72)

	Project code	ALMA source name	RA	hms	Dec	dms	Band	Cont.sens. mJy/beam	Frequency support	Release date	Publication	Angular resolution	Min.vel.res. km/s	Array	Mosaic	Max.reco.scale arcsec	FOV arcsec	Scientific category	Science keyword
<input type="checkbox"/>	2022.1.00951.S	NGC_5236	13:37:00.919	-29:51:56.740	6	0.0326	227.369-245.512 GHz	2024-07-12	0	0.043	1.389	12m	0.833	24.628	Local Universe	Spiral galaxies, Galactic c			
<input type="checkbox"/>	2015.1.00624.S	M83	13:37:06.765	-29:53:23.398	6	0.2940	219.927-231.155 GHz	2018-06-28	0	0.135	0.367	12m	mosaic	3.369	204.612	Local Universe	Spiral galaxies, Galaxy cl		
<input type="checkbox"/>	2018.1.01161.S	M83	13:37:00.750	-29:51:58.000	6	0.1162	229.309-247.128 GHz	2018-10-06	52	0.194	1.370	12m	mosaic	3.909	91.615	Active galaxies	Starbursts, star formation		
<input type="checkbox"/>	2023.1.01671.S	M83	13:37:00.705	-29:51:58.428	8	0.3125	478.006-493.741 GHz	2025-09-13	0	0.226	2.368	12m	mosaic	4.207	19.243	Active galaxies	Starbursts, star formation		
<input type="checkbox"/>	2022.1.00951.S	NGC_5236	13:37:00.919	-29:51:56.740	6	0.0891	227.37-245.512 GHz	2024-04-17	0	0.248	1.389	12m	3.411	24.628	Local Universe	Spiral galaxies, Galactic c			
<input type="checkbox"/>	2022.1.00959.S	M83XUV-Field1	13:37:05.182	-29:59:53.765	7	0.0543	342.512-358.451 GHz	2024-03-06	0	0.285	0.490	12m	mosaic	3.774	24.926	ISM and star formation	Giant Molecular Clouds (
<input type="checkbox"/>	2015.1.01177.S	m83	13:37:00.919	-29:51:56.740	3	0.0115	85.604-101.271 GHz	2017-11-07	5	0.375	3.470	12m	7.319	62.319	Active galaxies	Starbursts, star formation			
<input type="checkbox"/>	2015.1.01161.S	M83	13:37:00.742	-29:51:57.876	6	0.2194	229.309-247.128 GHz	2016-10-07	52	0.496	1.370	12m	mosaic	4.300	250.960	Active galaxies	Starbursts, star formation		
<input type="checkbox"/>	2015.1.00861.S	M83	13:37:03.967	-29:59:47.584	6	0.3025	214.933-234.1 GHz	2016-11-19	3	0.552	2.515	12m	mosaic	5.143	194.285	ISM and star formation	Inter-Stellar Medium (ISI		

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

The screenshot displays the ALMA Science Archive interface. At the top, the search bar contains 'Source name: M83' and '1 column filter active'. The main view is split into two panels: on the left, a sky map of M83 with a blue dashed circle indicating the field of view (FOV) and yellow rectangles showing the observation footprint; on the right, a spectral plot showing intensity versus frequency (280-360 GHz) with various molecular lines labeled. Below the panels, there are tabs for 'Observations (15)', 'Projects (26)', and 'Publications (72)'. A dropdown menu is set to 'Band: 7'. A table of observations is shown below, with a yellow arrow pointing to the 'Band' column header.

Project code	ALMA source name	RA	hms	Dec	dms	Band	Beam (arcsec)	Frequency support	Release date	Publication	Ang.res.	arcsec	Min.vel.res.	km/s	Array	Mosaic	Max.reco.scale	arcsec	FOV	arcsec	Scientific category	Science keyword
2015.1.01593.S	m83	13:37:02.126	-29:52:06.260	7	0.4992	344.252_360.112 GHz	0.620	2017-04-19	1	0.620	0.846	12m	mosaic	6.173	122.408	Local Universe	Spiral galaxies, Giant Mo					
2015.1.01593.S	m83	13:37:05.628	-29:51:07.949	7	0.5700	344.252_360.112 GHz	0.621	2017-05-20	1	0.621	0.846	12m	mosaic	6.027	122.410	Local Universe	Spiral galaxies, Giant Mo					
2015.1.01593.S	m83	13:37:00.919	-29:51:56.740	7	0.7863	344.188_360.175 GHz	1	2017-09-06	1	14.924	0.846	7m	mosaic	264.543	16.534	Local Universe	Spiral galaxies, Giant Mo					
2015.1.01593.S	m83	13:37:05.613	-29:51:08.197	7	4.4317	344.188_360.175 GHz	1	2017-11-24	1	2.902	0.846	7m	mosaic	24.657	131.765	Local Universe	Spiral galaxies, Giant Mo					
2015.1.01593.S	m83	13:37:00.919	-29:51:56.740	7	0.9173	344.188_360.174 GHz	1	2018-02-13	1	14.924	0.846	7m	mosaic	264.543	16.534	Local Universe	Spiral galaxies, Giant Mo					
2015.1.0164.S	M83	13:37:00.750	-29:51:58.000	7	0.0818	278.265_293.908 GHz	3	2018-03-28	3	1.198	1.990	12m	mosaic	10.069	39.971	Active galaxies	Starbursts, star formation					
2015.1.01593.S	m83	13:37:02.111	-29:52:06.507	7	3.5680	344.188_360.175 GHz	1	2018-05-19	1	2.655	0.846	7m	mosaic	24.657	131.765	Local Universe	Spiral galaxies, Giant Mo					
2016.1.00164.S	M83	13:37:00.887	-29:51:59.777	7	0.3908	278.203_293.971 GHz	3	2019-06-10	3	3.948	1.990	7m	mosaic	25.491	51.707	Active galaxies	Starbursts, star formation					
2017.1.00065.S	M83	13:37:05.823	-29:59:57.260	7	0.0859	341.501_357.496 GHz	1	2020-08-14	1	0.738	0.980	12m	mosaic	7.465	45.733	Local Universe	Spiral galaxies, Giant Mo					

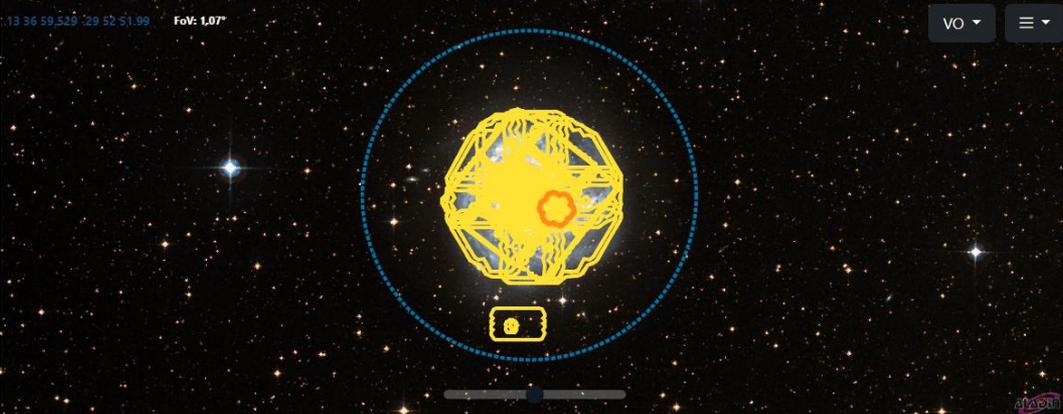
Clicking on the checkbox next to an observation will select the data for download. The row will change to orange as will the field in the map panel and the frequency range in the spectral plot.

ALMA Science Archive

https://almascience.eso.org/aq/?result_view=observations&sourceNameResolver=M83

Search

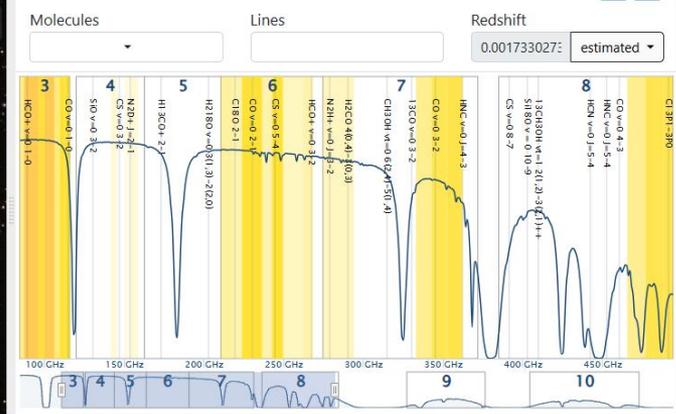
13:36:59.529 -29:52:51.99 FoV: 1.07''



VO

Molecules Lines Redshift

0.001733027: estimated



Observations (128) Projects (26) Publications (72)

	Project code	ALMA source name	RA	hms	Dec	dms	Band	Cont.sens. mJy/beam	Frequency support	Release date	Publication	Ang.res. arcsec	Min.vel.res. km/s	Array	Mosaic	Max.reco.scale arcsec	FOV arcsec	Scientific category	Science keyword
<input type="checkbox"/>	2021.1.00079.S	M83	13:36:55.955	-29:50:34.068	8		16.0308		476.905..492.299 GHz	2023-04-20	0	2.364	0.690	7m	mosaic	14.356	224.146	Active galaxies	Starbursts, star formation
<input type="checkbox"/>	2021.1.00079.S	M83	13:37:05.894	-29:53:19.548	8		11.8648		476.905..492.299 GHz	2023-04-20	0	2.365	0.690	7m	mosaic	14.373	224.146	Active galaxies	Starbursts, star formation
<input type="checkbox"/>	2021.1.00079.S	M83	13:37:00.919	-29:51:56.740	8		2.8449		476.905..492.299 GHz	2023-04-25	0	10.846	0.690	TP		192.255	12.016	Active galaxies	Starbursts, star formation
<input type="checkbox"/>	2021.1.01195.S	M83	13:37:00.919	-29:51:56.740	3		0.1758		90.127..105.751 GHz	2023-05-27	1	53.667	3.262	TP		951.280	59.455	Galaxy evolution	Galaxy chemistry, Giant I
<input type="checkbox"/>	2021.1.01195.S	M83	13:36:53.230	-29:52:48.725	3		0.0256		85.96..101.71 GHz	2023-06-03	1	1.204	3.390	12m	mosaic	16.491	127.709	Galaxy evolution	Galaxy chemistry, Giant I
<input checked="" type="checkbox"/>	2021.1.01195.S	M83	13:36:53.230	-29:52:48.725	3		0.0225		90.189..105.689 GHz	2023-07-08	1	1.020	3.260	12m	mosaic	18.723	122.105	Galaxy evolution	Galaxy chemistry, Giant I
<input type="checkbox"/>	2021.1.01195.S	M83	13:36:53.229	-29:52:48.786	7		2.2450		340.497..358.496 GHz	2023-10-11	1	3.067	1.639	7m	mosaic	24.917	127.050	Galaxy evolution	Galaxy chemistry, Giant I
<input type="checkbox"/>	2022.1.00359.S	M83XUV-Field1	13:37:05.182	-29:59:53.765	7		0.0543		342.512..358.451 GHz	2024-03-06	0	0.285	0.490	12m	mosaic	3.774	24.926	ISM and star formation	Giant Molecular Clouds
<input type="checkbox"/>	2022.1.00991.S	NGC_5236	13:37:00.919	-29:51:56.740	6		0.0891		227.37..245.512 GHz	2024-04-17	0	0.248	1.389	12m		3.411	24.628	Local Universe	Spiral galaxies, Galactic c
<input type="checkbox"/>	2023.1.00936.S	M83_ADM	13:37:07.881	-29:51:17.173	6		0.1823		261.000..269.100 GHz	2024-06-16	0	4.102	2.184	7m		26.060	28.452	Local Universe	Spiral galaxies, Giant Ma

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.

ALMA Science Archive

https://almascience.eso.org/aq/?result_view=observations&sourceNameResolver=M83

Search Source name: M83

13 36 59.529 -29 52 51.99 FoV: 1.07' VO

Molecules Lines Redshift 0.001733027: estimated

Observations (128) Projects (26) Publications (72)

	Project code	ALMA source name	RA	hms	Dec	dms	Band	Cont.sens. mJy/beam	Frequency support	Release date	Publication Ang.res.	arcsec	Min.vel.res. km/s	Array	Mosaic	Max.reco.scale arcsec	FOV arcsec	Scientific category	Science keyword
<input type="checkbox"/>	2022.1.00859.S	m83	13:37:00.919	-29:51:56.740	8	2.1997		478.169, 494.153 GHz	2024-06-27	0	10.811	0.688	TP		191.639	11.977	Local Universe	Spiral galaxies, Giant Mo	
<input type="checkbox"/>	2022.1.00951.S	NGC_5236	13:37:00.919	-29:51:56.740	6	0.0326		227.369, 245.512 GHz	2024-07-12	0	0.043	1.389	12m		0.833	24.628	Local Universe	Spiral galaxies, Galactic c	
<input type="checkbox"/>	2021.1.01195.S	M83	13:36:53.230	-29:52:48.725	7	0.2861		340.56, 356.433 GHz	2024-09-22	1	0.627	1.639	12m	mosaic	6.841	114.473	Galaxy evolution	Galaxy chemistry, Giant I	
<input type="checkbox"/>	2022.1.00859.S	m83	13:37:07.500	-29:51:30.000	8	7.9168		478.169, 494.153 GHz	2024-11-03	0	1.418	0.688	7m	mosaic	15.809	74.476	Local Universe	Spiral galaxies, Giant Mo	
<input checked="" type="checkbox"/>	2022.1.01713.S	M83_CTR	13:37:00.590	-29:51:57.080	6	0.3383		251.094, 268.102 GHz	2025-06-19	0	4.374	2.184	7m	mosaic	33.450	71.733	Local Universe	Spiral galaxies, Giant Mo	
<input type="checkbox"/>	2023.1.01671.S	M83	13:37:00.705	-29:51:58.428	8	0.3125		478.006, 493.741 GHz	2025-09-13	0	0.226	2.368	12m	mosaic	4.207	19.243	Active galaxies	Starbursts, star formation	
<input type="checkbox"/>	2024.1.01577.S	M83	13:37:00.919	-29:51:56.740	7	0.6466		341.722, 357.364 GHz	2025-12-09	0	15.037	3.293	TP		266.540	16.659	Active galaxies	Starbursts, star formation	
<input type="checkbox"/>	2024.1.01577.S	M83	13:37:00.784	-29:51:53.683	7	0.7638		341.785, 357.302 GHz	2025-12-12	0	2.921	3.293	7m	mosaic	19.898	43.360	Active galaxies	Starbursts, star formation	
<input type="checkbox"/>	2024.1.01577.S	M83	13:37:00.784	-29:51:55.820	7	0.0703		341.785, 357.301 GHz	In progress	0	0.698	3.293	12m	mosaic	6.576	33.928	Active galaxies	Starbursts, star formation	

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

The screenshot displays the ALMA Science Archive interface. At the top, the browser address bar shows the URL: https://almascience.eso.org/aq/result_view=observations&sourceNameResolver=M83. The search bar contains "Source name: M83". A yellow arrow points to a "Download" button in the top right corner.

The main view is split into two panels. The left panel shows a spatial map of the M83 galaxy with a yellow beam footprint. The right panel shows a spectral plot with frequency on the x-axis (100 GHz to 450 GHz) and flux density on the y-axis. The plot is divided into 10 channels, each with a list of detected molecules and their quantum states. A redshift of 0.001733027 is displayed, with "estimated" as the source.

Below the spectral plot is a table of observations. The table has columns for Project code, ALMA source name, RA, hms, Dec, dms, Band, Cont.sens. mJy/beam, Frequency support, Release date, Publication Ang.res. arcsec, Min.vel.res. km/s, Array, Mosaic, Max.reco.scale arcsec, FOV arcsec, Scientific category, and Science keyword.

Project code	ALMA source name	RA	hms	Dec	dms	Band	Cont.sens. mJy/beam	Frequency support	Release date	Publication Ang.res. arcsec	Min.vel.res. km/s	Array	Mosaic	Max.reco.scale arcsec	FOV arcsec	Scientific category	Science keyword	
2021.1.00079.S	M83	13:36:55.955	-29:50:34.068	8	16.0308			476.905..492.299 GHz	2023-04-20	0	2.364	0.690	7m	mosaic	14.356	224.146	Active galaxies	Starbursts, star formation
2021.1.00079.S	M83	13:37:05.894	-29:53:19.548	8	11.8648			476.905..492.299 GHz	2023-04-20	0	2.365	0.690	7m	mosaic	14.373	224.146	Active galaxies	Starbursts, star formation
2021.1.00079.S	M83	13:37:00.919	-29:51:56.740	8	2.8449			476.905..492.299 GHz	2023-04-25	0	10.846	0.690	TP	192.255	12.016	Active galaxies	Starbursts, star formation	
2021.1.01195.S	M83	13:37:00.919	-29:51:56.740	3	0.1758			90.127..105.751 GHz	2023-05-27	1	53.667	3.262	TP	951.280	59.455	Galaxy evolution	Galaxy chemistry, Giant I	
2021.1.01195.S	M83	13:36:53.230	-29:52:48.725	3	0.0256			85.96..101.71 GHz	2023-06-03	1	1.204	3.390	12m	mosaic	16.491	127.709	Galaxy evolution	Galaxy chemistry, Giant I
2021.1.01195.S	M83	13:36:53.230	-29:52:48.725	3	0.0225			90.189..105.689 GHz	2023-07-08	1	1.020	3.260	12m	mosaic	18.723	122.105	Galaxy evolution	Galaxy chemistry, Giant I
2021.1.01195.S	M83	13:36:53.229	-29:52:48.786	7	2.2450			340.497..358.496 GHz	2023-10-11	1	3.067	1.639	7m	mosaic	24.917	127.050	Galaxy evolution	Galaxy chemistry, Giant I
2022.1.00359.S	M83XUV-Field1	13:37:05.182	-29:59:53.765	7	0.0543			342.512..358.451 GHz	2024-03-06	0	0.285	0.490	12m	mosaic	3.774	24.926	ISM and star formation	Giant Molecular Clouds
2022.1.00991.S	NGC_5236	13:37:00.919	-29:51:56.740	6	0.0891			227.37..245.512 GHz	2024-04-17	0	0.248	1.389	12m	mosaic	3.411	24.628	Local Universe	Spiral galaxies, Galactic c
2023.1.00000.S	M83_ADM	13:37:07.881	-29:51:17.173	6	0.1823			261.000..261.000 GHz	2024-06-15	0	4.102	2.184	7m	mosaic	26.060	28.452	Local Universe	Spiral galaxies, Giant Ma

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

The screenshot displays the ALMA Science Archive interface. At the top, the browser address bar shows the URL: https://almascience.eso.org/aq/result_view=observations&sourceNameResolver=M83. The search bar contains "Source name: M83".

The main view is split into two panels. The left panel shows a spatial map of the M83 galaxy with a yellow beam footprint and a blue FOV circle. The right panel shows a spectral plot with frequency on the x-axis (100 GHz to 450 GHz) and flux on the y-axis. The plot is annotated with molecular lines and their quantum numbers. A yellow arrow points to a download icon in the bottom right corner of the interface.

Below the plot, there are tabs for "Observations (128)", "Projects (26)", and "Publications (72)". The "Observations" tab is active, showing a table of observation records.

Project code	ALMA source name	RA	hms	Dec	dms	Band	Cont.sens. mJy/beam	Frequency support	Release date	Publication	Ang.res. arcsec	Min.vel.res. km/s	Array	Mosaic	Max.reco.scale arcsec	FOV arcsec	Scientific category	Science keyword
2021.1.00079.S	M83	13:36:55.955	-29:50:34.068	8	16.0308			476.905..492.299 GHz	2023-04-20	0	2.364	0.690	7m	mosaic	14.356	224.146	Active galaxies	Starbursts, star formation
2021.1.00079.S	M83	13:37:05.894	-29:53:19.548	8	11.8648			476.905..492.299 GHz	2023-04-20	0	2.365	0.690	7m	mosaic	14.373	224.146	Active galaxies	Starbursts, star formation
2021.1.00079.S	M83	13:37:00.919	-29:51:56.740	8	2.8449			476.905..492.299 GHz	2023-04-25	0	10.846	0.690	TP		192.255	12.016	Active galaxies	Starbursts, star formation
2021.1.01195.S	M83	13:37:00.919	-29:51:56.740	3	0.1758			90.127..105.751 GHz	2023-05-27	1	53.667	3.262	TP		951.280	59.455	Galaxy evolution	Galaxy chemistry, Giant I
2021.1.01195.S	M83	13:36:53.230	-29:52:48.725	3	0.0256			85.96..101.71 GHz	2023-06-03	1	1.204	3.390	12m	mosaic	16.491	127.709	Galaxy evolution	Galaxy chemistry, Giant I
2021.1.01195.S	M83	13:36:53.230	-29:52:48.725	3	0.0225			90.189..105.689 GHz	2023-07-08	1	1.020	3.260	12m	mosaic	18.723	122.105	Galaxy evolution	Galaxy chemistry, Giant I
2021.1.01195.S	M83	13:36:53.229	-29:52:48.786	7	2.2450			340.497..358.496 GHz	2023-10-11	1	3.067	1.639	7m	mosaic	24.917	127.050	Galaxy evolution	Galaxy chemistry, Giant I
2022.1.00359.S	M83XUV-Field1	13:37:05.182	-29:59:53.765	7	0.0543			342.512..358.451 GHz	2024-03-06	0	0.285	0.490	12m	mosaic	3.774	24.926	ISM and star formation	Giant Molecular Clouds
2022.1.00991.S	NGC_5236	13:37:00.919	-29:51:56.740	6	0.0891			227.37..245.512 GHz	2024-04-17	0	0.248	1.389	12m		3.411	24.628	Local Universe	Spiral galaxies, Galactic c
2023.1.00000.S	M83_ADM	13:37:07.881	-29:51:17.173	6	0.1823			161.000..161.000 GHz	2024-06-16	0	4.102	2.184	7m		26.060	28.452	Local Universe	Spiral galaxies, Giant Ma

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

The screenshot displays the ALMA Science Archive interface. At the top, the browser address bar shows the URL: https://almascience.eso.org/aq/result_view=observations&sourceNameResolver=M83. The search bar contains "Source name: M83". A yellow arrow points to a green "Download" button in the top right corner.

The main display is split into two panels. The left panel shows a radio continuum image of the galaxy M83, with a yellow outline of the ALMA array configuration overlaid. The right panel shows a spectral plot with frequency on the x-axis (100 GHz to 450 GHz) and flux density on the y-axis. The plot is annotated with vertical lines and labels for various molecules and transitions, including HCO+, CO, HNC, HCN, H2CO, N2H, and CH3OH. A redshift of 0.001733027 is displayed.

Below the spectral plot is a table of observations. The table has columns for Project code, ALMA source name, RA, Dec, Band, Cont. sens., Frequency support, Release date, Publication Ang. res., Min. vel., Array, Mosaic, Max. reco. scale, FOV, Scientific category, and Science keyword. The row for project 2021.1.01195.S and source M83 is highlighted in yellow.

Project code	ALMA source name	RA	hms	Dec	dms	Band	Cont. sens. mJy/beam	Frequency support	Release date	Publication Ang. res. arcsec	Min. vel. res. km/s	Array	Mosaic	Max. reco. scale arcsec	FOV arcsec	Scientific category	Science keyword
2021.1.00079.S	M83	13:36:55.955	-29:50:34.068	8	16.0308		476.905, 492.299 GHz	2023-04-20	0	2.364	0.690	7m	mosaic	14.356	224.146	Active galaxies	Starbursts, star formation
2021.1.00079.S	M83	13:37:05.894	-29:53:19.548	8	11.8648		476.905, 492.299 GHz	2023-04-20	0	2.365	0.690	7m	mosaic	14.373	224.146	Active galaxies	Starbursts, star formation
2021.1.00079.S	M83	13:37:00.919	-29:51:56.740	8	2.8449		476.905, 492.299 GHz	2023-04-25	0	10.846	0.690	TP		192.255	12.016	Active galaxies	Starbursts, star formation
2021.1.01195.S	M83	13:37:00.919	-29:51:56.740	3	0.1758		90.127, 105.751 GHz	2023-05-27	1	53.667	3.262	TP		951.280	59.455	Galaxy evolution	Galaxy chemistry, Giant I
2021.1.01195.S	M83	13:36:53.230	-29:52:48.725	3	0.0256		85.96, 101.71 GHz	2023-06-03	1	1.204	3.390	12m	mosaic	16.491	127.709	Galaxy evolution	Galaxy chemistry, Giant I
2021.1.01195.S	M83	13:36:53.230	-29:52:48.725	3	0.0225		90.189, 105.689 GHz	2023-07-08	1	1.020	3.260	12m	mosaic	18.723	122.105	Galaxy evolution	Galaxy chemistry, Giant I
2021.1.01195.S	M83	13:36:53.229	-29:52:48.786	7	2.2450		340.497, 358.496 GHz	2023-10-11	1	3.067	1.639	7m	mosaic	24.917	127.050	Galaxy evolution	Galaxy chemistry, Giant I
2022.1.00359.S	M83XUV-Field1	13:37:05.182	-29:59:53.765	7	0.0543		342.512, 358.451 GHz	2024-03-06	0	0.285	0.490	12m	mosaic	3.774	24.926	ISM and star formation	Giant Molecular Clouds
2022.1.00991.S	NGC_5236	13:37:00.919	-29:51:56.740	6	0.0891		227.37, 245.512 GHz	2024-04-17	0	0.248	1.389	12m		3.411	24.628	Local Universe	Spiral galaxies, Galactic c
2023.1.00000.S	M83_ADM	13:37:07.881	-29:51:17.173	6	0.1823		261.000, 261.000 GHz	2024-06-15	0	4.102	2.184	7m		26.060	28.452	Local Universe	Spiral galaxies, Giant Ma

The Request Handler will display all of the files associated with the selected Scheduling Blocks.

ALMA Science Archive

https://almascience.eso.org/aq/?result_view=observations&sourceNameResolver=M83

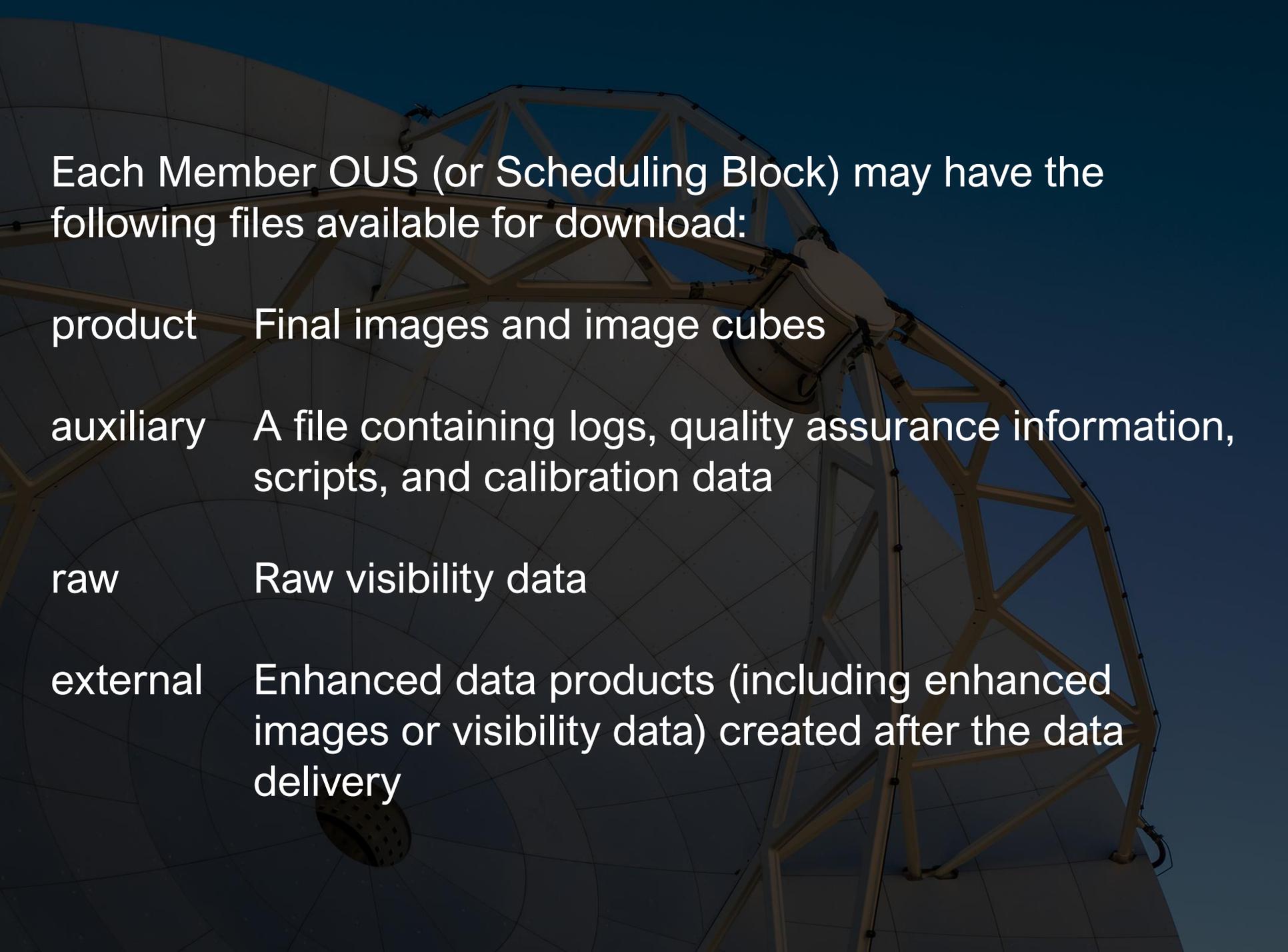
Source name: M83

Download 24 GB

Open legacy Request Handler

Select all Readme Product tar Auxiliary tar Raw tgz Raw (semipass) tgz External tar

Name	Size	↑ Project	↑ GOUS	↑ MOUS
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_X189be2_Xc393.ga0_report.pdf	(auxiliary, qa) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw25.mfs.lpb.fits.gz	(product) 1 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.hifa_calibration_renorm.pipeline_manifest.xml	(auxiliary, script) 55 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> 2021.1.01195.S_uid_A001_X1590_Xd69_auxiliary.tar	(auxiliary) 2 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.cube.lpbcor.admit.binned16.xml	(auxiliary, admit) 77 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_X196bbc_X10cee.ga0_report.pdf	(auxiliary, qa) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw29.cube.lpb.fits.gz	(product) 2 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_X196bbc_X104b4.ga0_report.pdf	(auxiliary, qa) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.mfs.lpbcor.admit.xml	(auxiliary, admit) 47 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.mfs.lmask.fits.gz	(product) 8 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.cube.lpbcor.admit.native.xml	(auxiliary, admit) 77 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.session_1.caltables.tgz	(auxiliary, calibration) 17 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw29.mfs.lmask.fits.gz	(product) 7 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.README.txt	(readme) 3 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_X196bbc_X806b.ga0_report.pdf	(auxiliary, qa) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw29.cube.lpbcor.admit.native.tgz	(auxiliary, admit) 13 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.PLDriver_report.xml	(auxiliary, script) 1 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.mfs.lpbcor.admit.tgz	(auxiliary, admit) 1010 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.session_6.caltables.tgz	(auxiliary, calibration) 18 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.hifa_calibration_renorm.casa_piperestorescript.py	(auxiliary, script) 2 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.cube.lpb.fits.gz	(product) 2 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw25.cube.lpb.fits.gz	(product) 2 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.cube.lpbcor.admit.native.tgz	(auxiliary, admit) 11 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw25_27_29_31.cont.L.alpha.error.fits	(product) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69



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

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

The legacy version of this page is accessible through a link at the top, but it works poorly for projects with multiple Scheduling Blocks.

The screenshot shows the ALMA Science Archive interface. At the top, the URL is https://almascience.eso.org/aq/result_view/observations&sourceNameResolver=M83. The search bar contains 'Source name: M83'. A yellow arrow points to the 'Open legacy Request Handler' button. Below this, there are several filter sections on the left: Project (1), Group ObsUniSet (1), Member ObsUniSet (1), Source (1), Collection (1), Array (1), File type (7), and File class (11). The main area displays a table of files with columns for Name, Size, Project, GOUS, and MOUS. The table contains 11 rows of file entries, each with a checkbox for selection and a green checkmark indicating availability. The bottom of the screen shows a table of observation data with columns for observation ID, RA, Dec, Frequency, and other parameters.

Name	Size	Project	GOUS	MOUS
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_X189bc2_Xc393.ga0_report.pdf	(auxiliary, qa) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw25.mfs.lpb.fits.gz	(product) 1 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.hifa_calibration_renorm_pipeline_manifest.xml	(auxiliary, script) 55 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> 2021.1.01195.S_uid_A001_X1590_Xd69_auxiliary.tar	(auxiliary) 2 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.cube.lpbcor.admit.binned16.xml	(auxiliary, admit) 77 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_Xf96bc_X10cee.ga0_report.pdf	(auxiliary, qa) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw29.cube.lpb.fits.gz	(product) 2 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_Xf96bc_X104b4.ga0_report.pdf	(auxiliary, qa) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.mfs.lpbcor.admit.xml	(auxiliary, admit) 47 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.mfs.lmask.fits.gz	(product) 8 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.cube.lpbcor.admit.native.xml	(auxiliary, admit) 77 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.session_1.caltables.tgz	(auxiliary, calibration) 17 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw29.mfs.lmask.fits.gz	(product) 7 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.README.txt	(readme) 3 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_Xf96bc_X806b.ga0_report.pdf	(auxiliary, qa) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw29.cube.lpbcor.admit.native.tgz	(auxiliary, admit) 13 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.PLDriver_report.xml	(auxiliary, script) 1 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.mfs.lpbcor.admit.tgz	(auxiliary, admit) 1010 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.session_6.caltables.tgz	(auxiliary, calibration) 18 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.hifa_calibration_renormcasa_piperestorescript.py	(auxiliary, script) 2 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.cube.lpb.fits.gz	(product) 2 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw25.cube.lpb.fits.gz	(product) 2 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.cube.lpbcor.admit.native.tgz	(auxiliary, admit) 11 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw25_27_29_31.cont.l.alpha.error.fits	(product) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69

The legacy version of this page is accessible through a link at the top, but it works poorly for projects with multiple Scheduling Blocks.

ALMA Science Archive | Alma Request Handler - Request #2172040298135

https://almascience.eso.org/rh/submission

ALMA Request Handler

Anonymous User: Request #2172040298135 ✓
Request Title: [click to edit](#)

readme product auxiliary raw raw (semipass) external

Project / OUSet / Executionblock	Updated	File	Size	Accessible	Actions
Request 2172040298135			34 GB		
Project 2021.1.01195.S					
Science Goal OUS uid://A001/X1590/Xd67					
Group OUS uid://A001/X1590/Xd68					
Member OUS uid://A001/X1590/Xd69	2022-07-08				
SB M83_a_03_TM1					
<input checked="" type="checkbox"/> readme		memberuid_A001_X1590_Xd69_README.txt	4 kB	✓	
<input checked="" type="checkbox"/> product		2021.1.01195.S_uid_A001_X1590_Xd69_001_of_001.tar	24 GB	✓	
<input checked="" type="checkbox"/> auxiliary		2021.1.01195.S_uid_A001_X1590_Xd69_auxiliary.tar	2 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf53eeb_X160e2.asdm.sdm.tar	33 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf89be2_Xc393.asdm.sdm.tar	35 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf89be2_Xc821.asdm.sdm.tar	35 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf934b1_X15c3c.asdm.sdm.tar	38 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf934b1_X16672.asdm.sdm.tar	38 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf96bbc_X104b4.asdm.sdm.tar	41 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf96bbc_X10cee.asdm.sdm.tar	41 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf96bbc_X80f6.asdm.sdm.tar	41 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf96bbc_Xa84.asdm.sdm.tar	36 GB	✓	
Member OUS uid://A001/X1590/Xd6b	2022-01-14				
SB M83_a_03_7M					
<input checked="" type="checkbox"/> readme		memberuid_A001_X1590_Xd6b_README.txt	4 kB	✓	
<input checked="" type="checkbox"/> product		2021.1.01195.S_uid_A001_X1590_Xd6b_001_of_001.tar	705 MB	✓	
<input checked="" type="checkbox"/> auxiliary		2021.1.01195.S_uid_A001_X1590_Xd6b_auxiliary.tar	2 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf160b6_Xa97a.asdm.sdm.tar	1 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf160b6_Xa97b.asdm.sdm.tar	1 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf16b4a_X3146.asdm.sdm.tar	1 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf20692_X106e7.asdm.sdm.tar	2 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf20692_X10904.asdm.sdm.tar	2 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf20692_X10d30.asdm.sdm.tar	2 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf24d47_X88fe.asdm.sdm.tar	1 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf26b6c_X3fa7.asdm.sdm.tar	2 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf287d3_X143c.asdm.sdm.tar	2 GB	✓	
<input type="checkbox"/> raw		2021.1.01195.S_uid_A002_Xf287d3_X18ca.asdm.sdm.tar	2 GB	✓	

Clicking on one of the C symbols next to an image will display the image in CARTA.

The screenshot shows the ALMA Science Archive web interface. The browser address bar displays `https://almascience.eso.org/aq/?result_view=observations&sourceNameResolver=M83`. The search bar contains "Source name: M83". The interface includes a sidebar with filters for Project (1), Group ObsUniSet (1), Member ObsUniSet (1), Source (1), Collection (1), Array (1), and File type (7). The main content area shows a table of files with columns for Name, Size, Project, GOUS, and MOUS. A yellow arrow points to a blue 'C' icon next to a file entry.

Name	Size	Project	GOUS	MOUS
<input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw25.mfs.lpbcor.fits	(product) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> uid_A002_X188be2_Xc821.ms.flagversions.tgz	(auxiliary, calibration) 1 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw25_27_29_31.cont.ltt0.lpbcor.fits	(product) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> uid_A002_Xf96bbc_X104b4.ms.calapply.txt	(auxiliary, calibration) 3 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> 2021.1.01195.S_uid_A002_Xf5eeb_X160e2.asdm.sdm.tar	(raw) 31 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf934b1_X15c3c.asdm.sdm.tar	(raw) 35 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.cube.lpbcor.admit.binned.16.tgz	(auxiliary, admit) 4 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.hifa.calimage_renorm.pprequest.xml	(auxiliary, script) 16 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69

Clicking on one of the C symbols next to an image will display the image in CARTA.

The screenshot displays the ALMA Science Archive web interface. A search for 'Source name: M83' is shown. The main content area features a sidebar with filters for Project, Group, Member, Source, Collection, Array, File type, and File class. The central focus is the CARTA viewer window, which displays a circular image of the M83 galaxy. The image is titled 'member.uid__A001_X1590_Xd69.M83_sci.spw25_27_29_31.cont.tt0.pbcor.fits'. The image axes are labeled 'Declination' (ranging from 51.35 to 52.00) and 'Right ascension' (ranging from 13:37:00 to 45). A color bar on the right indicates intensity values from 0.00000 to 0.0001. Below the image is a 'Render Configuration' panel with a histogram and various settings like 'Clip min', 'Clip max', 'Scaling', and 'Colormap'. To the right of the image are 'X Profile' and 'Y Profile' panels, each with a graph of 'Value' vs. 'X coordinate' or 'Y coordinate'. At the bottom right is an 'Image List' table.

Image	Layers	Matching	Chan
0 member.uid__A001	R	[XY] [R]	0

The bottom status bar shows observation details: 202211099515, NGC_5236, 13:37:00.919 -29:51:56.740 6 0.0891, 227.37_245.512 GHz, 2024-04-17, 0, 0.248, 1.389, 12m, 3.411, 24.628, Local Universe, Spiral galaxies, Galactic c.

The search results can be filtered using the drop-down menus on the left. This is useful for selecting subsets of these files for different purposes.

The screenshot shows the ALMA Science Archive interface. The search results are for source M83. The left sidebar contains several filter menus: Project (1), Group ObsUniSet (1), Member ObsUniSet (1), Source (1), Collection (1), Array (1), and File type (7). The File type menu is expanded, showing a search for file type and a list of file types with their counts: application/x-gzip (48), text/xml (17), image/x-fits (13), text/plain (12), and application/tar (11). A yellow arrow points to the File type menu. The main table displays search results with columns for Name, Size, Project, GOUS, and MOUS. The table includes file details such as memberuid, uid, and file type (e.g., product, auxiliary, raw). Technical details for selected files are shown on the right, including Band, Frequency range, Frequency resolution, Line sens., Line sens. (native), Polarizations, and Array.

Name	Size	Project	GOUS	MOUS
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw25.mfs.lpbcor.fits	(product) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> uid_A002_X189be2_Xc821.ms.flagversions.tgz	(auxiliary, calibration) 1 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw25_27_29_31.cont.ltt0.lpbcor.fits	(product) 2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> uid_A002_Xf96bbc_X104b4.ms.calapply.txt	(auxiliary, calibration) 3 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> 2021.1.01195.S_uid_A002_Xf5eeb_X160e2.asdm.sdm.tar	(raw) 31 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> 2021.1.01195.S_uid_A002_Xf934b1_X15c3c.asdm.sdm.tar	(raw) 35 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispw31.cube.lpbcor.admit0.binned16.tgz	(auxiliary, admit) 4 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> memberuid_A001_X1590_Xd69.hifa.calimage_renom.pprequest.xml	(auxiliary, script) 16 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69

To select just the images, go to "File type" and select only "image/x-fits".

The screenshot shows the ALMA Science Archive web interface. The browser address bar displays `https://almascience.eso.org/aq/result_view=observations&sourceNameResolver=M83`. The search bar contains "Source name: M83". The interface includes a "Download" button and a "Login" button. A sidebar on the left contains a "File type (1)" filter menu, which is expanded to show a list of file types. A yellow arrow points to the "image/x-fits" option, which is checked. The main content area displays a table of observation data with columns for Name, Size, Project, GOUS, and MOUS. The table lists three entries, each with a preview image and technical details such as Band, Array, Frequency range, and Line sens.

Name	Size	Project	GOUS	MOUS
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispu25_27_29_31.cont.l.alpha.error.fits	(product) 2 MB	2021.1.01195.5	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispu25.mfs.l.pbcor.fits	(product) 2 MB	2021.1.01195.5	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> memberuid_A001_X1590_Xd69.M83_scispu25_27_29_31.cont.l.t0.pbcor.fits	(product) 2 MB	2021.1.01195.5	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69

To select just the Quality Assurance filts, go to "File class" and select only "qa0", "qa2", and "weblog". (Some tar files associated with the project will also be displayed, but these can be ignored.)

The screenshot shows the ALMA Science Archive interface for source M83. The 'File class' filter is set to 3 items: qa0, qa2, and weblog. The table below lists the files, with several highlighted in yellow.

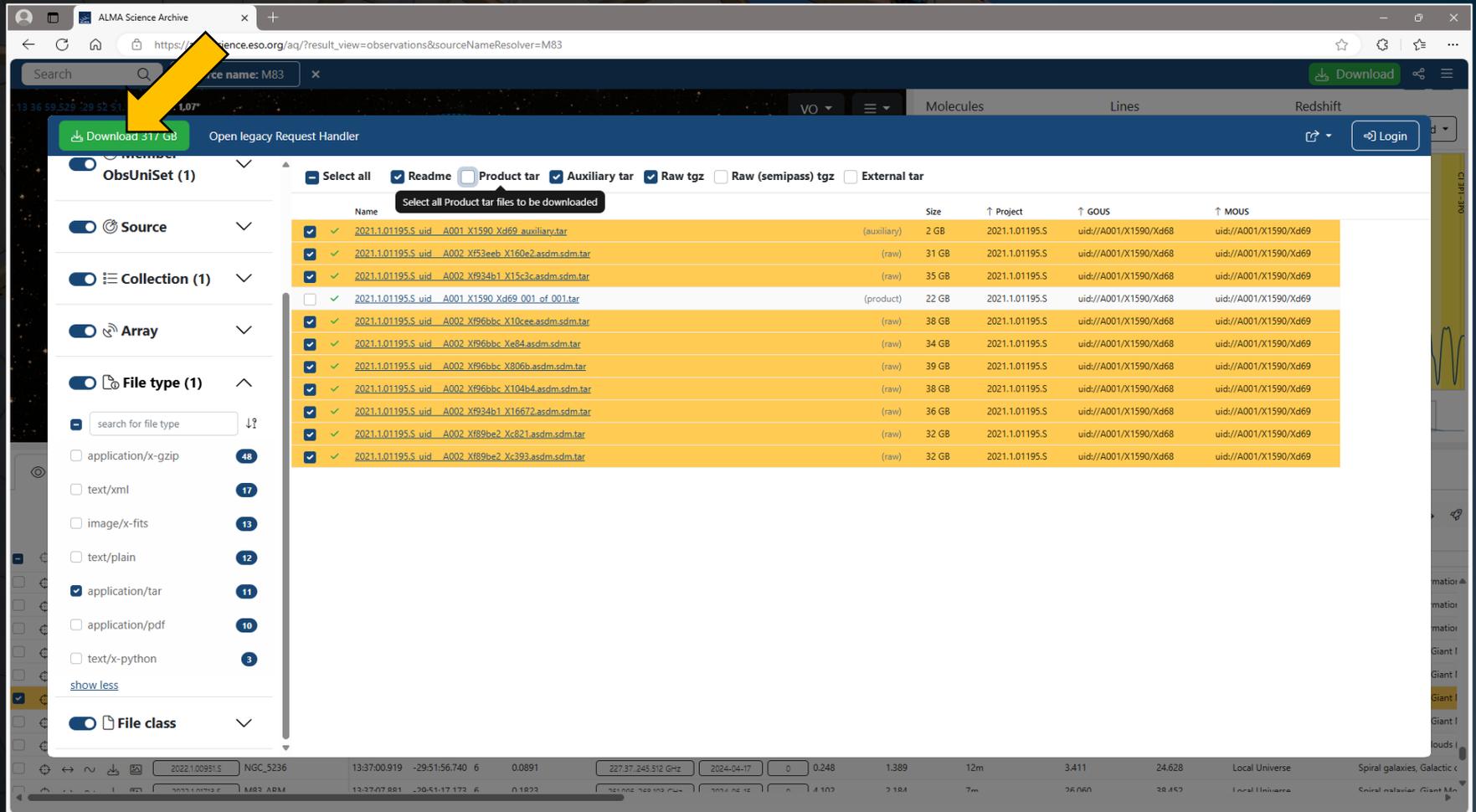
Name	Size	Project	GOUS	MOUS
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_Xf89be2_Xc393.qa0_report.pdf (auxiliary, qa) 2 MB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> 2021.1.01195.S_uid_A001_X1590_Xd69_auxiliary.tar (auxiliary) 2 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	2 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_Xf96bbc_X10cee.qa0_report.pdf (auxiliary, qa) 2 MB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_Xf96bbc_X104b4.qa0_report.pdf (auxiliary, qa) 2 MB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_Xf96bbc_X806b.qa0_report.pdf (auxiliary, qa) 2 MB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf53eeb_X160e2.asdm.sdm.tar (raw) 31 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	31 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf934b1_X15c3c.asdm.sdm.tar (raw) 35 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	35 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_Xf934b1_X16672.qa0_report.pdf (auxiliary, qa) 2 MB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> member:uid_A001_X1590_Xd69.qa2_report.pdf (auxiliary, qa) 77 kB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	77 kB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> 2021.1.01195.S_uid_A001_X1590_Xd69_001_of_001.tar (product) 22 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	22 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> member:uid_A001_X1590_Xd69.hifa_callimage_renom.weblog.tgz (auxiliary, qa) 2 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	2 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf96bbc_X10cee.asdm.sdm.tar (raw) 38 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	38 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf96bbc_Xe84.asdm.sdm.tar (raw) 34 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	34 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_Xf53eeb_X160e2.qa0_report.pdf (auxiliary, qa) 1 MB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	1 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_Xf934b1_X15c3c.qa0_report.pdf (auxiliary, qa) 2 MB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_Xf96bbc_Xe84.qa0_report.pdf (auxiliary, qa) 2 MB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf96bbc_X806b.asdm.sdm.tar (raw) 39 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	39 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf96bbc_X104b4.asdm.sdm.tar (raw) 38 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	38 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf934b1_X16672.asdm.sdm.tar (raw) 36 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	36 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf89be2_Xc821.asdm.sdm.tar (raw) 32 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	32 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf89be2_Xc393.asdm.sdm.tar (raw) 32 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	32 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
<input type="checkbox"/> <input checked="" type="checkbox"/> uid_A002_Xf89be2_Xc821.qa0_report.pdf (auxiliary, qa) 2 MB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69	2 MB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69

To select just the files needed to recreate the calibrated visibility data (for creating new images), go to "File type" and select only "application/tar". After that select all of the files with "(raw)" or "(auxiliary)" after their names.

The screenshot shows the ALMA Science Archive interface for source M83. The 'File type' filter is set to 'application/tar'. The 'File class' filter is set to 'Auxiliary tar'. The table below shows the selected files.

Name	Size	Project	GOUS	MOUS
<input checked="" type="checkbox"/> 2021.1.01195.S_uid_A001_X1590_Xd69_auxiliary.tar (auxiliary) 2 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69				
<input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf53eeb_X160e2.asdm.sdm.tar (raw) 31 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69				
<input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf934b1_X15c3c.asdm.sdm.tar (raw) 35 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69				
<input type="checkbox"/> 2021.1.01195.S_uid_A001_X1590_Xd69_001_of_001.tar (product) 22 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69				
<input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf96bbc_X10cee.asdm.sdm.tar (raw) 38 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69				
<input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf96bbc_Xe84.asdm.sdm.tar (raw) 34 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69				
<input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf96bbc_X806b.asdm.sdm.tar (raw) 39 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69				
<input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf96bbc_X104b4.asdm.sdm.tar (raw) 38 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69				
<input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf934b1_X16672.asdm.sdm.tar (raw) 36 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69				
<input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf89be2_Xc821.asdm.sdm.tar (raw) 32 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69				
<input checked="" type="checkbox"/> 2021.1.01195.S_uid_A002_Xf89be2_Xc393.asdm.sdm.tar (raw) 32 GB 2021.1.01195.S uid://A001/X1590/Xd68 uid://A001/X1590/Xd69				

After selecting the data for download, the download process can be started by clicking on the Download button in the upper left corner of the Request Handler. This will generate a download script. It is also possible to select the individual files for download by directly clicking on the filenames.



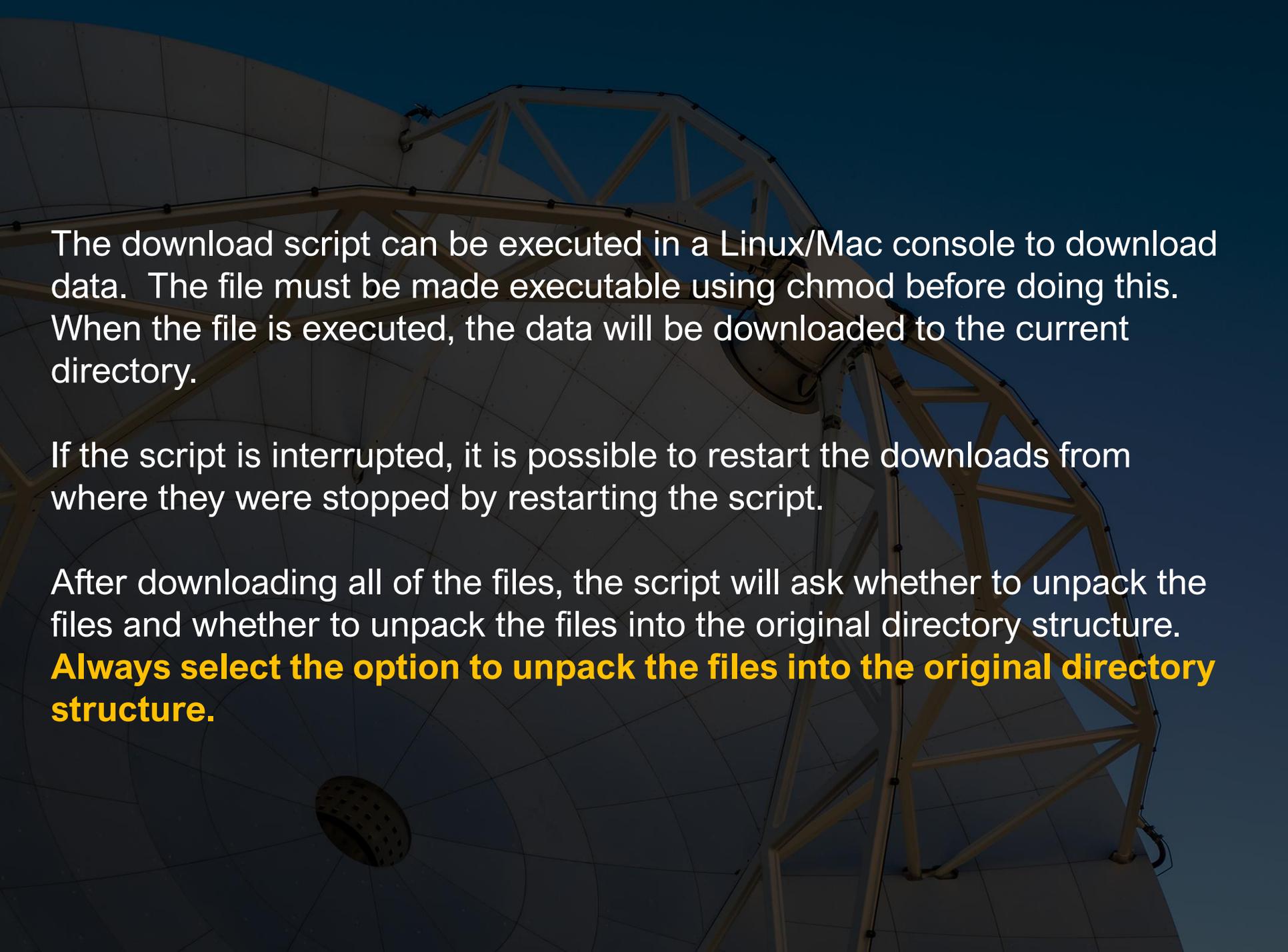
The screenshot displays the ALMA Science Archive Request Handler interface. A yellow arrow points to the 'Download 317 GB' button in the top left corner. The interface shows a list of files with columns for Name, Size, Project, GOU, and MOU. The files are organized into a table with the following columns: Name, Size, Project, GOU, and MOU. The table contains 12 rows of data, each representing a different file or set of files. The files are listed with their respective sizes and project information.

Name	Size	Project	GOU	MOU
2021.1.01195.S_uid_A001_X1590_Xd69_auxiliary.tar	(auxiliary) 2 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf53eeb_X160e2.asdm.sdm.tar	(raw) 31 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf934b1_X15c3c.asdm.sdm.tar	(raw) 35 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A001_X1590_Xd69_001_of_001.tar	(product) 22 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf96bbc_X10cee.asdm.sdm.tar	(raw) 38 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf96bbc_Xe84.asdm.sdm.tar	(raw) 34 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf96bbc_X806b.asdm.sdm.tar	(raw) 39 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf96bbc_X104b4.asdm.sdm.tar	(raw) 38 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf934b1_X16672.asdm.sdm.tar	(raw) 36 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf89be2_Xc821.asdm.sdm.tar	(raw) 32 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf89be2_Xc393.asdm.sdm.tar	(raw) 32 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69

After selecting the data for download, the download process can be started by clicking on the Download button in the upper left corner of the Request Handler. This will generate a download script. It is also possible to select the individual files for download by directly clicking on the filenames.

The screenshot shows the ALMA Science Archive interface. The browser address bar displays the URL: https://almascience.eso.org/aq/?result_view=observations&sourceNameResolver=M83. The search bar contains "Source name: M83". The interface features a navigation menu on the left with options like "Download 317 GB", "Open legacy Request Handler", "ObsUniSet (1)", "Source", "Collection (1)", "Array", "File type (1)", and "File class". The main content area displays a table of data files with columns for Name, Size, Project, GOUS, and MOUS. A yellow arrow points to the "Download" button in the upper left corner of the Request Handler. A tooltip above the arrow reads "Select all Products to be downloaded".

Name	Size	Project	GOUS	MOUS
2021.1.01195.S_uid_A001_X1590_Xd69_auxiliary.tar	(auxiliary) 2 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf53eeb_X160e2.asdm.sdm.tar	(raw) 31 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf934b1_X15c3c.asdm.sdm.tar	(raw) 35 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A001_X1590_Xd69_001_of_001.tar	(product) 22 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf96bbc_X10cee.asdm.sdm.tar	(raw) 38 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf96bbc_Xe84.asdm.sdm.tar	(raw) 34 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf96bbc_X806b.asdm.sdm.tar	(raw) 39 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf96bbc_X104b4.asdm.sdm.tar	(raw) 38 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf934b1_X16672.asdm.sdm.tar	(raw) 36 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf89be2_Xc821.asdm.sdm.tar	(raw) 32 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69
2021.1.01195.S_uid_A002_Xf89be2_Xc393.asdm.sdm.tar	(raw) 32 GB	2021.1.01195.S	uid://A001/X1590/Xd68	uid://A001/X1590/Xd69

The background of the slide is a photograph of a large satellite dish antenna. The dish is a complex structure of metal beams and panels, with a large, perforated circular component visible in the lower-left quadrant. The sky is a deep, clear blue. The text is overlaid on this image in white and yellow colors.

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.

After downloading all of the files, the script will ask whether to unpack the files and whether to unpack the files into the original directory structure. **Always select the option to unpack the files into the original directory structure.**