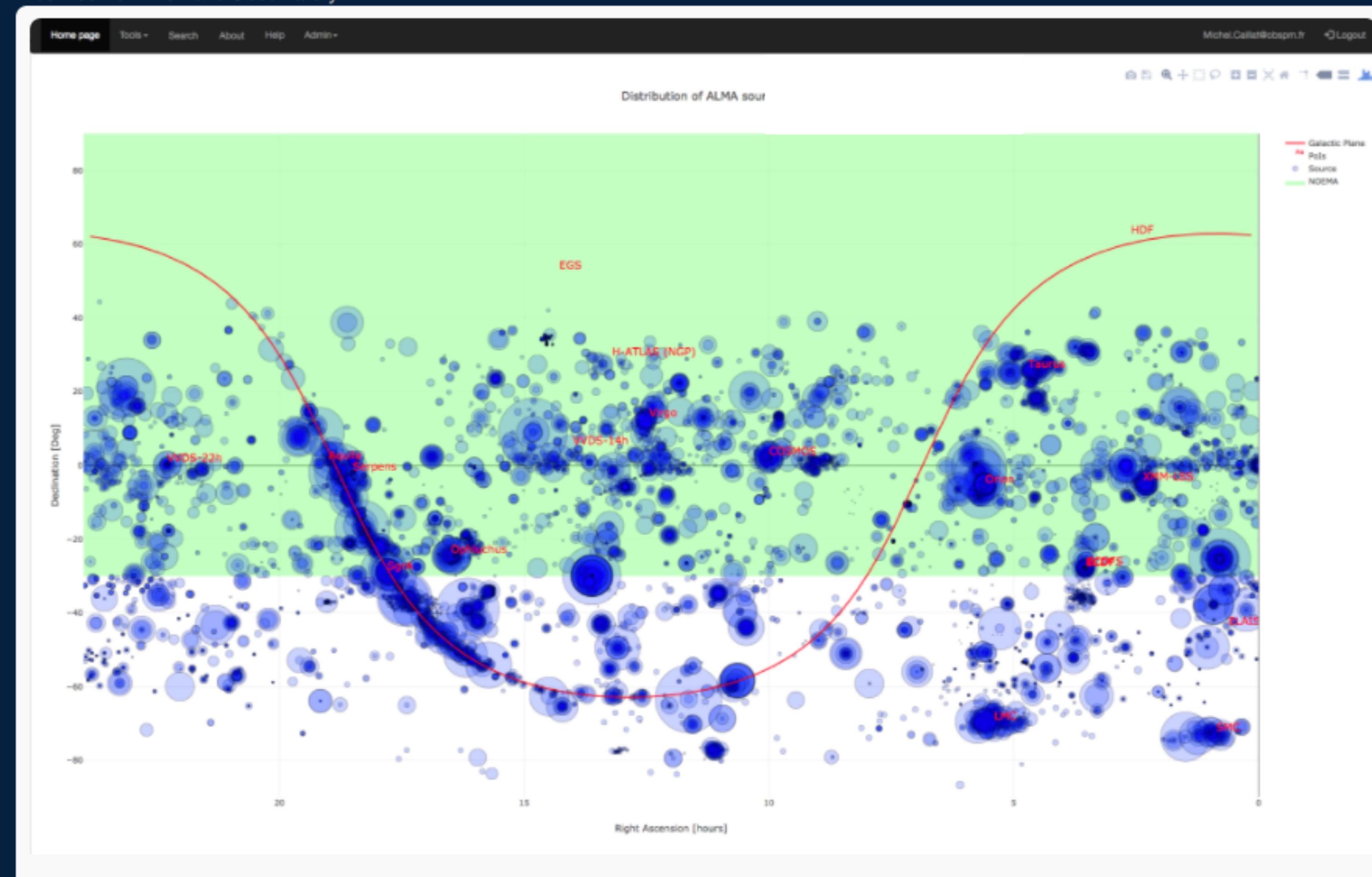


ARTEMIX - ALMA Remote Mining Experiment

A service from the Paris Observatory



Artemix is an ALMA data mining experiment prototype under development. Supported by the LERMA and the Paris Observatory, its aim is to provide astronomers with a webservice that enables to quickly explore the ALMA scientific Archive content.

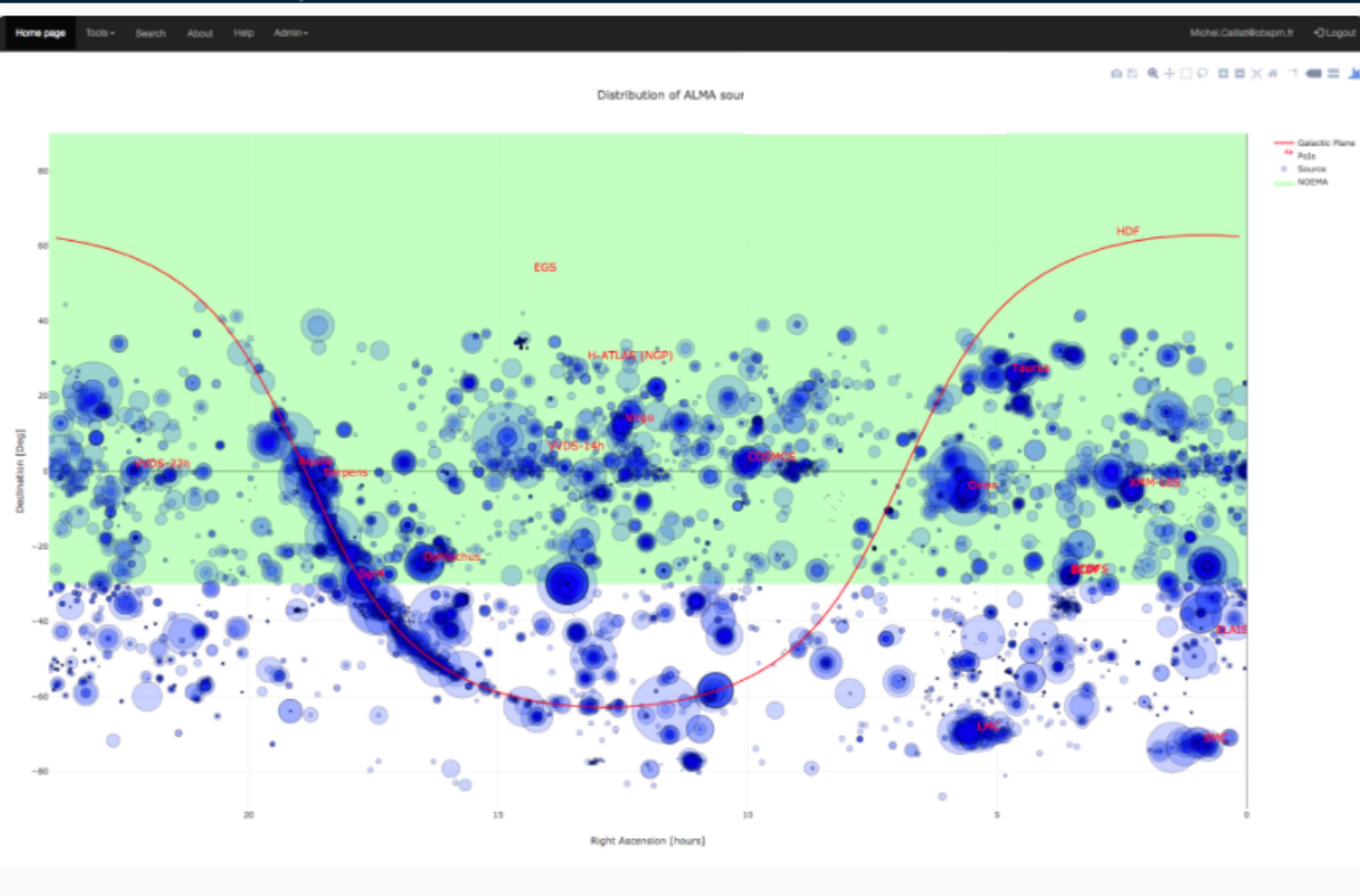
If you have any question or request, please contact us ([artemix.lerma at obspm.fr](mailto:artemix.lerma@obspm.fr))

ARTEMIX - ALMA REMOTE MINING EXPERIMENT

A service from the Paris Observatory

Disclaimer

login / logout



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If you have any question or request, please contact us ([artemix.lerma at obspm.fr](mailto:artemix.lerma@obspm.fr)).

Disclaimer

About ARTEMIX

ARTEMIX is brought to you by **Philippe Salome, Yaye-Awa Ba, Michel Caillat** and **Nicolas Moreau**,

Laboratoire d'Etudes du Rayonnement et de la Matière en Astrophysique (LERMA),
Observatoire de Paris, 61 Avenue de l'Observatoire, 75014 Paris - France

Credits

Nodar Kasradze and Levan Loria have participated to its creation and to its development.

This application makes use of "Aladin Lite" developed at CDS, Strasbourg Observatory,
France ([2014ASPC..485..277B](#)).

This application makes use of the VAMDC architecture provided by the VAMDC Consortium (<http://www.vamdc.org>) to download spectroscopic data provided by the JPL (<https://spec.jpl.nasa.gov>) and CDMS (<http://cdms.ph1.uni-koeln.de/cdms/portal>) databases.

Artemix acknowledges regular support from the Paris Observatory federative action ALMA-NOEMA-Herschel ([AF-ANH](#)) and from the Paris Astronomical Data Center ([PADC](#)).

Usage policy

The following statement should be included in the acknowledgment of papers using the ALMA datasets :

This paper makes use of the following ALMA data: ADS/JAO.ALMA#201X.X.XXXXX.X. ALMA is a partnership of ESO (representing its member states), NSF (USA) and NINS (Japan), together with NRC (Canada), NSC 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. The National Radio Astronomy Observatory is a facility of the National Science Foundation operated under cooperative agreement by Associated Universities, Inc.

Please also add a reference to ARTEMIX :

The data were retrieved from ARTEMIX (<http://artemix.obspm.fr>) operated by the Observatoire de Paris/LERMA (Salome et al., 2017ASPC..XXX..XXX). This portal gives access to the ALMA Fits files as produced by the ALMA QA2 and extracted from the ALMA archive. ARTEMIX provides a quick look access to the ALMA datacubes as well as a synthetic view of the observation and imaging parameters (positions / frequencies).

Artemix is an ALMA data mining service for astronomers with a webservi

Close

If you have any question or request, please contact us (artemix.lerma@obspm.fr).

Search for sources
Visit FITS Files
Uploader

EMIX - ALMA REMOTE MINING EXPERIMENT

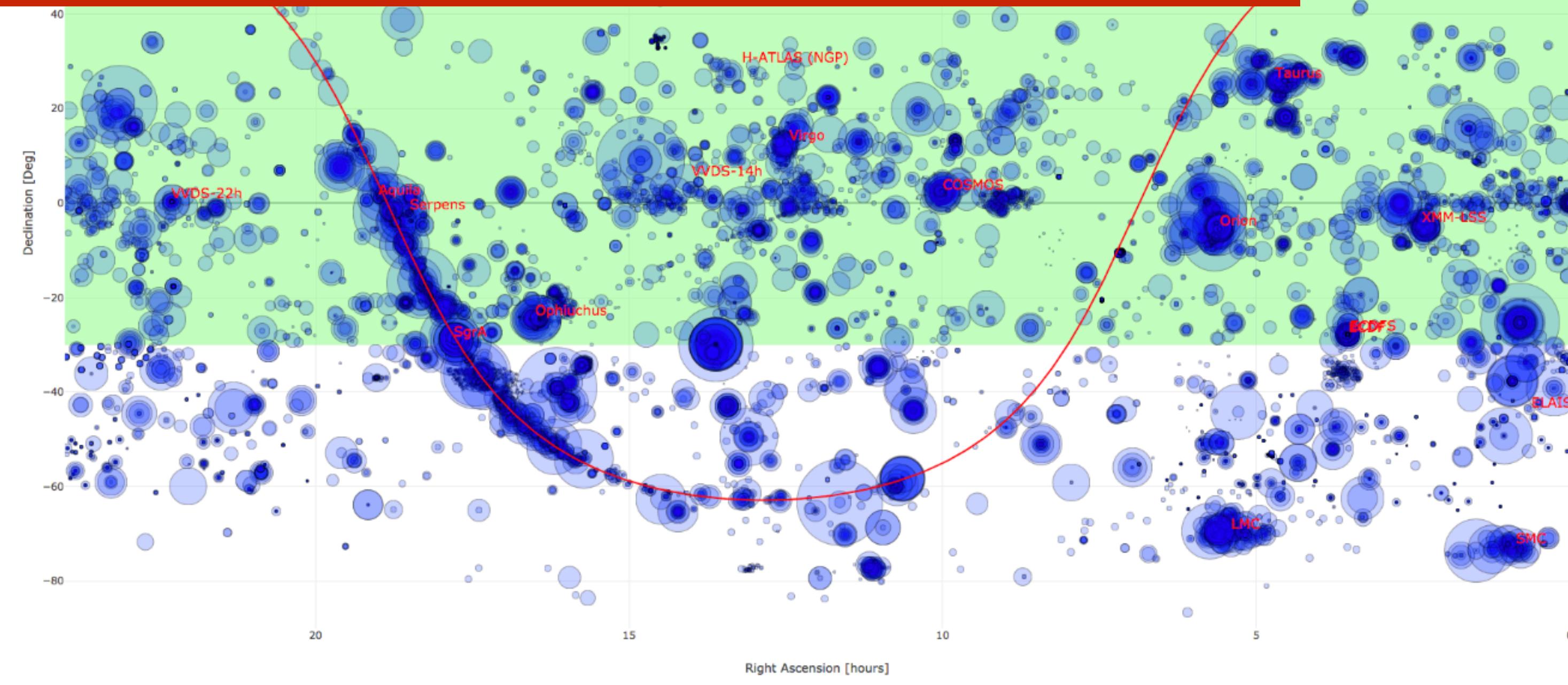
the Paris Observatory

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Main menu

- [Search for sources](#) : Direct access to Search
- [Visit FITS Files](#) : Browse the FITS directories
- [Uploader](#) : Search from list of sources (upload a csv file)



Artemix is an ALMA data mining experiment prototype under development. Supported by the LERMA and the Paris Observatory, its aim is to provide astronomers with a webservice that enables to quickly explore the ALMA scientific Archive content.

[Search for sources](#)[Visit FITS Files](#)[Uploader](#)

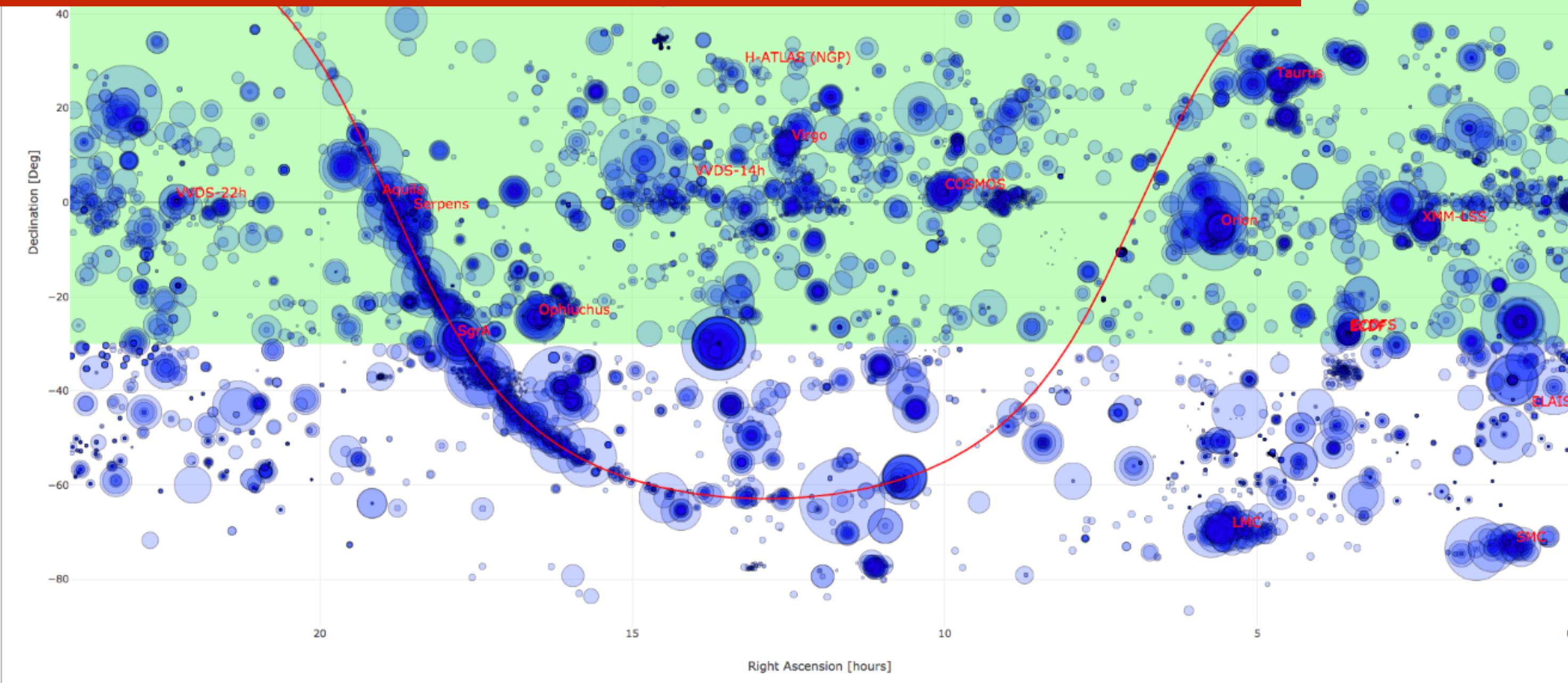
EMIX - ALMA REMOTE MINING EXPERIMENT

the Paris Observatory

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Main menu

- [Search for sources](#) : Direct access to Search
- [Visit FITS Files](#) : Browse the FITS directories
- [Uploader](#) : Search from list of sources (upload a csv file)



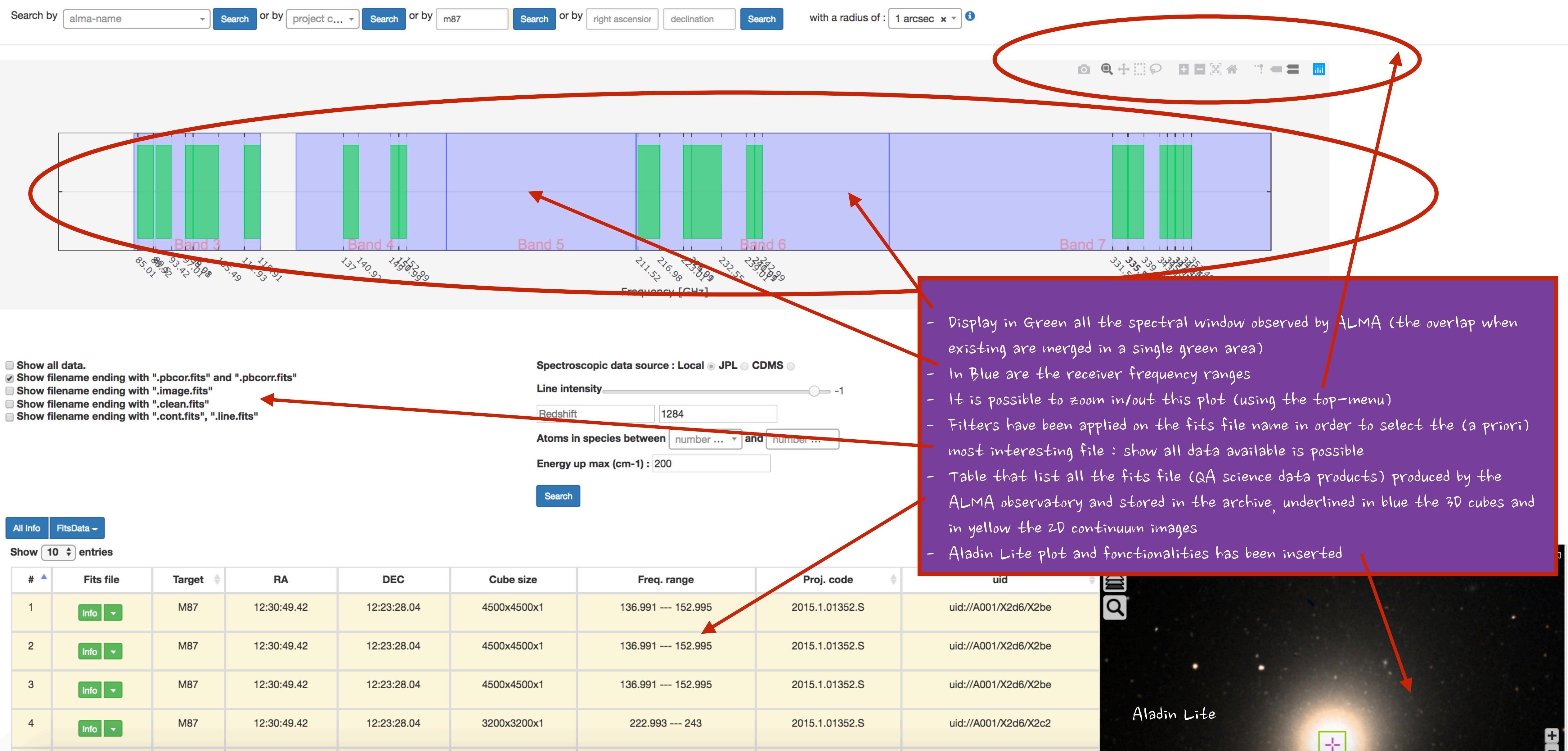
Artemix is an ALMA data mining experiment prototype under development. Supported by the LERMA and the Paris Observatory, its aim is to provide astronomers with a webservice that enables to quickly explore the ALMA scientific Archive content.

The screenshot shows a search interface with four main search methods highlighted by colored ovals and arrows:

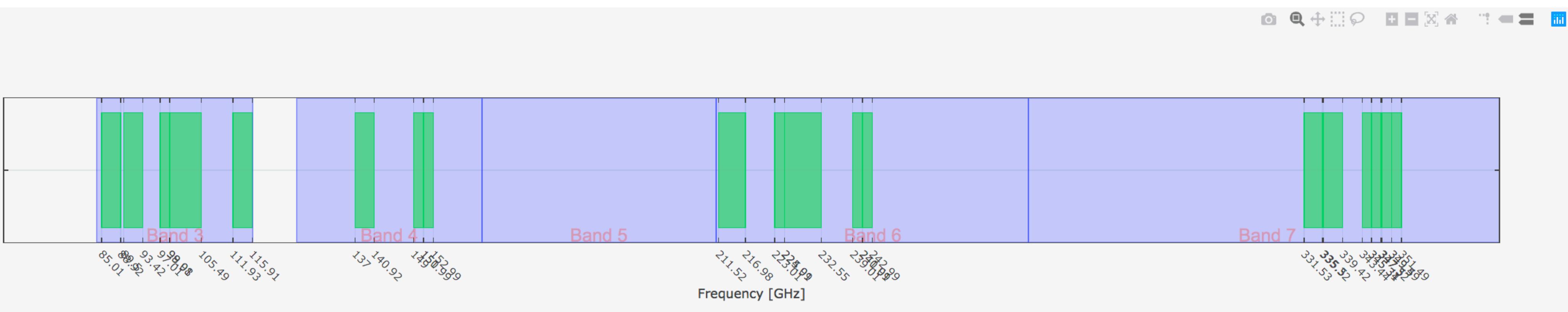
- Red oval (top left):** "Search by alma-name" input field and "Search" button.
- Red oval (top middle):** "Search by project code" input field and "Search" button.
- Green oval (top right):** "Search by sesame-name" input field and "Search" button, along with "right ascension" and "declination" fields and their respective "Search" buttons.
- Green oval (middle right):** "with a radius of:" input field and "Search" button.

Annotations explain each method:

- Red box (bottom left):** "search by alma-name : the name given by the PI of the project (not necessarily the official name as known by resolvers like Simbad or NED). Unique solution"
- Blue box (center top):** "search by project code with automated name completion"
- Green box (center right):** "search by RA, Dec inside a given radius : Specify RA, Dec, radius and click Search"
- Red box (bottom right):** "By default, searches are done in an area of 1 arcsec"
- Green box (bottom center):** "search by sesame-name inside a given radius : the official name as known by resolvers like Simbad or NED) Specify name, radius and click Search"



Search by or by or by or by with a radius of :



- Show all data.
- Show filename ending with ".pbcor.fits" and ".pbcorr.fits"
- Show filename ending with ".image.fits"
- Show filename ending with ".clean.fits"
- Show filename ending with ".cont.fits", ".line.fits"

Spectroscopic data source : Local JPL CDMS

Line intensity

Redshift

Atoms in species between and

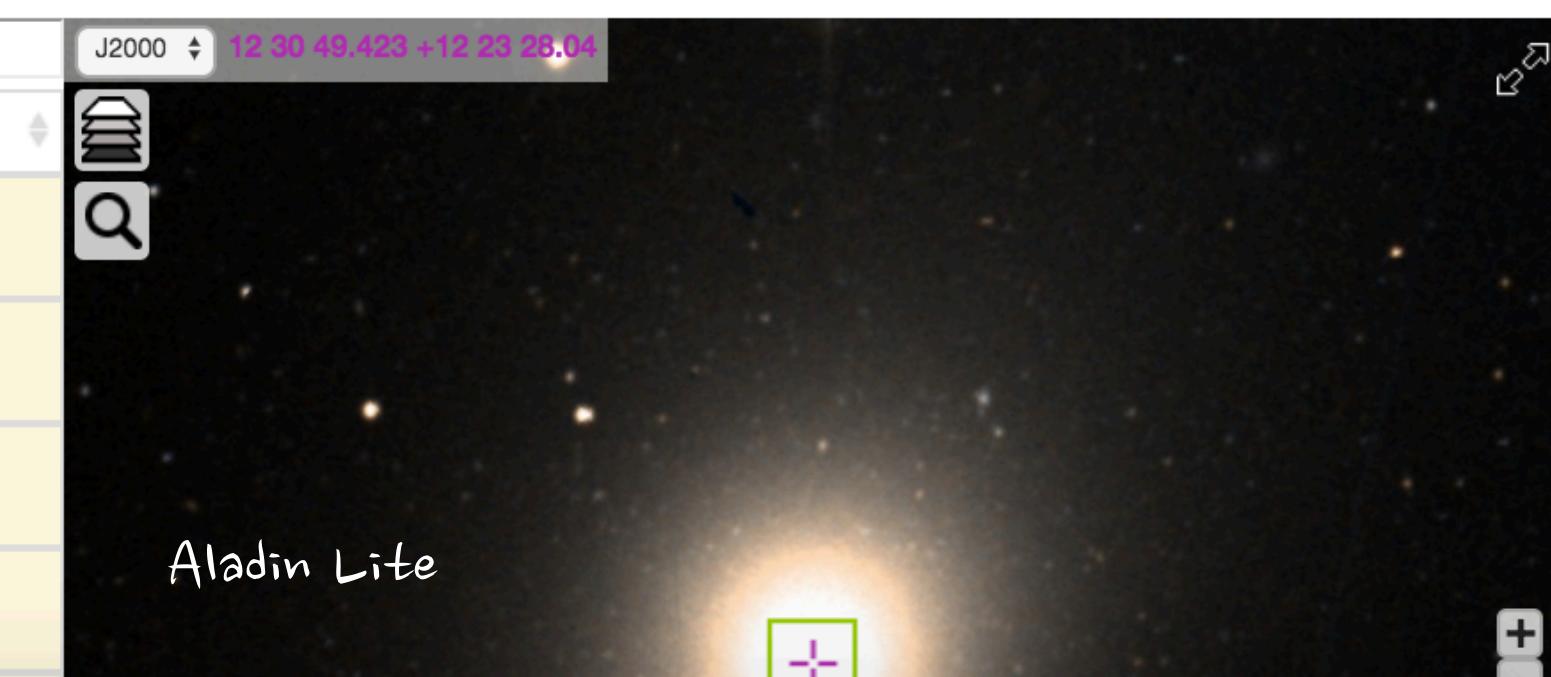
Energy up max (cm⁻¹) :

- Choose one molecular line catalogue (local is small). JPL and CDMS are huge, use filters (Level energy, Line intensity)
- Automated redshift fill (works only when search by sesame-name). Please check that this corresponds to your expectations
- Filter by number of atoms in the molecule

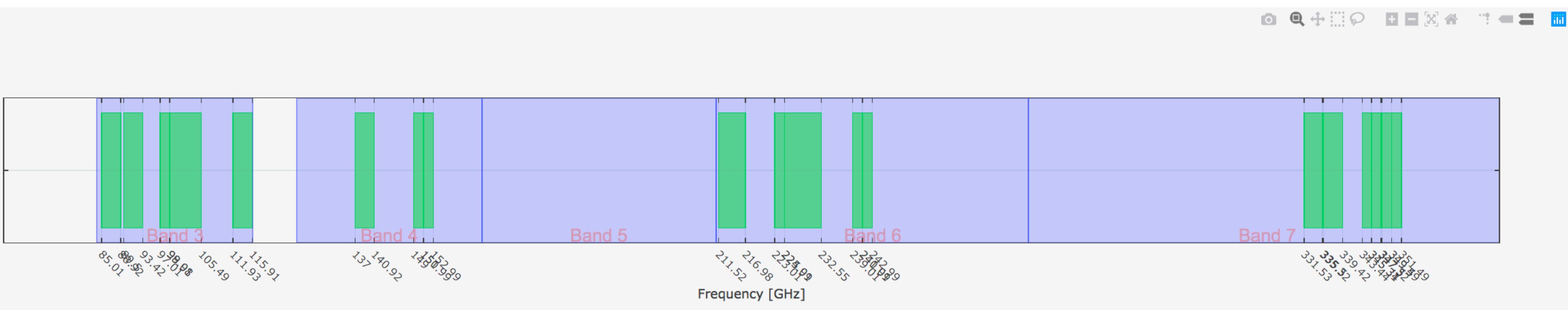
All Info

Show 10 entries

#	Fits file	Target	RA	DEC	Cube size	Freq. range	Proj. code	uid
1	<input type="button" value="Info"/> <input type="button" value="▼"/>	M87	12:30:49.42	12:23:28.04	4500x4500x1	136.991 --- 152.995	2015.1.01352.S	uid://A001/X2d6/X2be
2	<input type="button" value="Info"/> <input type="button" value="▼"/>	M87	12:30:49.42	12:23:28.04	4500x4500x1	136.991 --- 152.995	2015.1.01352.S	uid://A001/X2d6/X2be
3	<input type="button" value="Info"/> <input type="button" value="▼"/>	M87	12:30:49.42	12:23:28.04	4500x4500x1	136.991 --- 152.995	2015.1.01352.S	uid://A001/X2d6/X2be
4	<input type="button" value="Info"/> <input type="button" value="▼"/>	M87	12:30:49.42	12:23:28.04	3200x3200x1	222.993 --- 243	2015.1.01352.S	uid://A001/X2d6/X2c2



Search by or by or by or by with a radius of :



- Show all data.
- Show filename ending with ".pbcor.fits" and ".pbcorr.fits"
- Show filename ending with ".image.fits"
- Show filename ending with ".clean.fits"
- Show filename ending with ".cont.fits", ".line.fits"

Spectroscopic data source : Local JPL CDMS

Line intensity

Redshift

Atoms in species between and

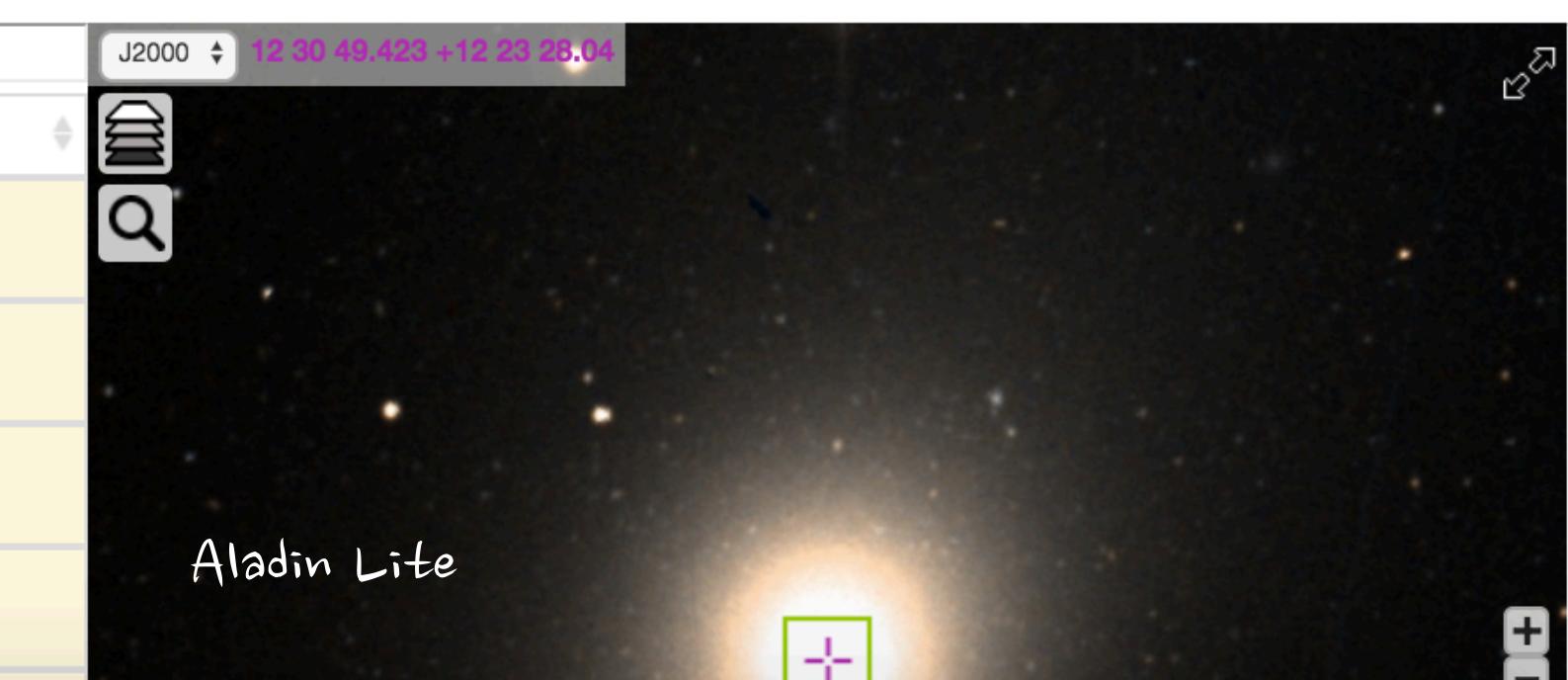
Energy up max (cm⁻¹) :

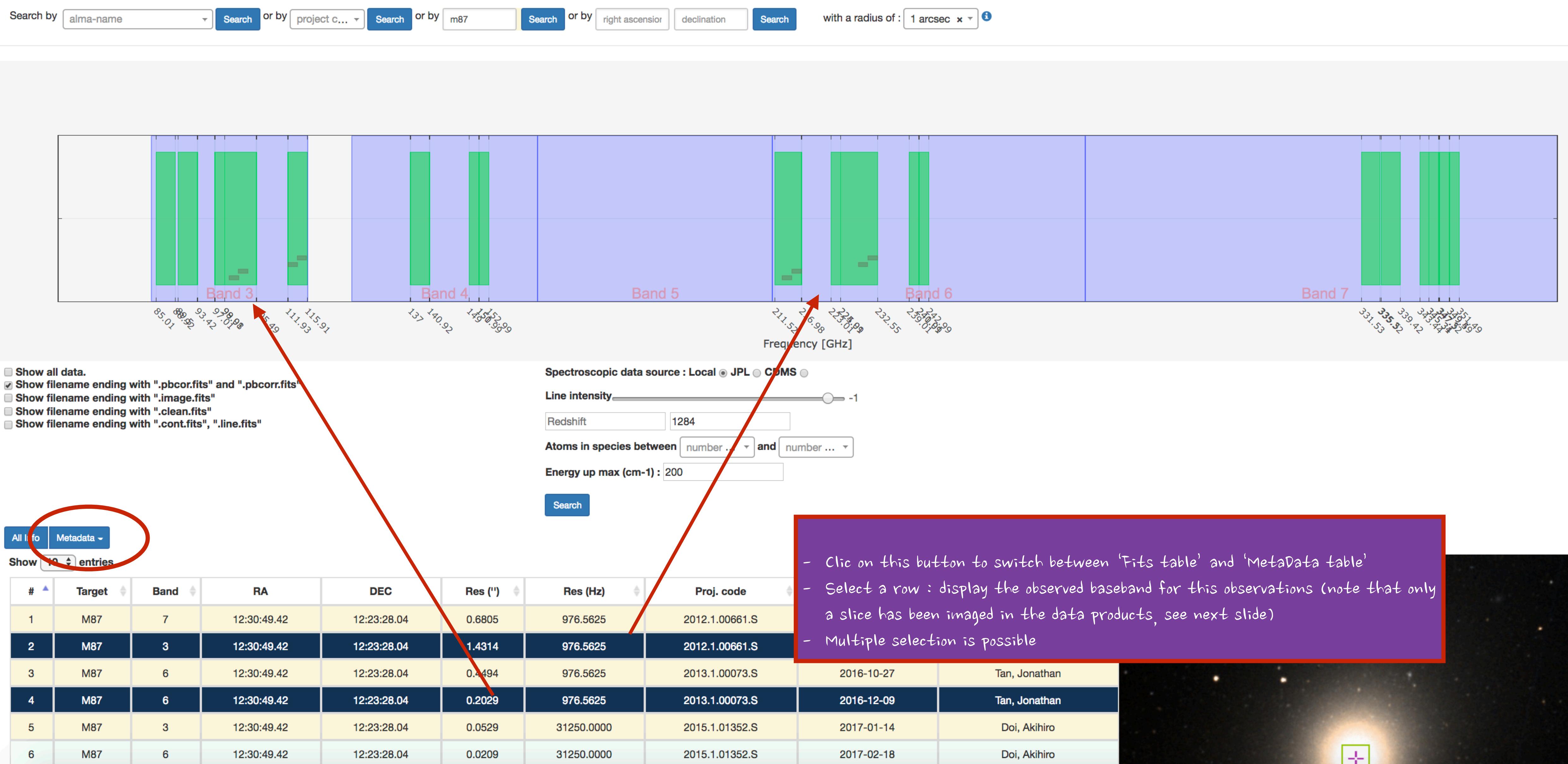
- Choose to display a table of meta-data (observed configurations) or a table of FITS header (data imaged by the pipeline QA2).

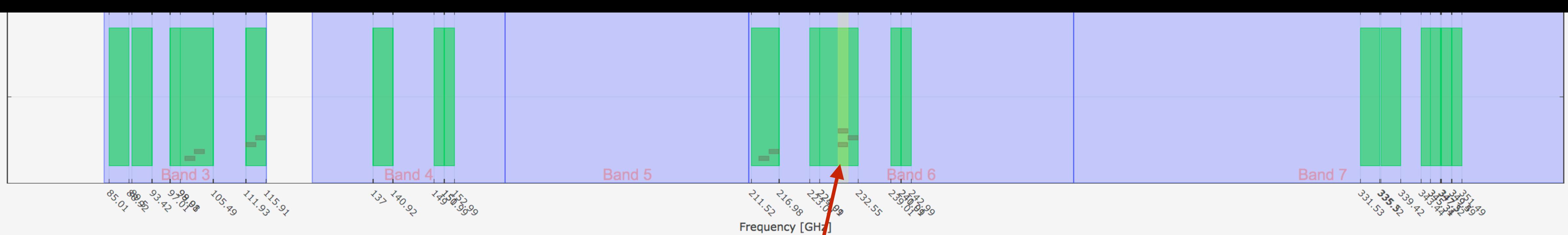
All Info

Show entries

#	Fits file	Target	RA	DEC	Cube size	Freq. range	Proj. code	uid
1	<input type="button" value="Info"/> <input type="button" value="▼"/>	M87	12:30:49.42	12:23:28.04	4500x4500x1	136.991 --- 152.995	2015.1.01352.S	uid://A001/X2d6/X2be
2	<input type="button" value="Info"/> <input type="button" value="▼"/>	M87	12:30:49.42	12:23:28.04	4500x4500x1	136.991 --- 152.995	2015.1.01352.S	uid://A001/X2d6/X2be
3	<input type="button" value="Info"/> <input type="button" value="▼"/>	M87	12:30:49.42	12:23:28.04	4500x4500x1	136.991 --- 152.995	2015.1.01352.S	uid://A001/X2d6/X2be
4	<input type="button" value="Info"/> <input type="button" value="▼"/>	M87	12:30:49.42	12:23:28.04	3200x3200x1	222.993 --- 243	2015.1.01352.S	uid://A001/X2d6/X2c2







- Show all data.
- Show filename ending with ".pbcor.fits" and ".pbcorr.fits"
- Show filename ending with ".image.fits"
- Show filename ending with ".clean.fits"
- Show filename ending with ".cont.fits", ".line.fits"

Spectroscopic data source : Local JPL CDMS

Line intensity

Redshift

Atoms in species between and

Energy up max (cm⁻¹) :

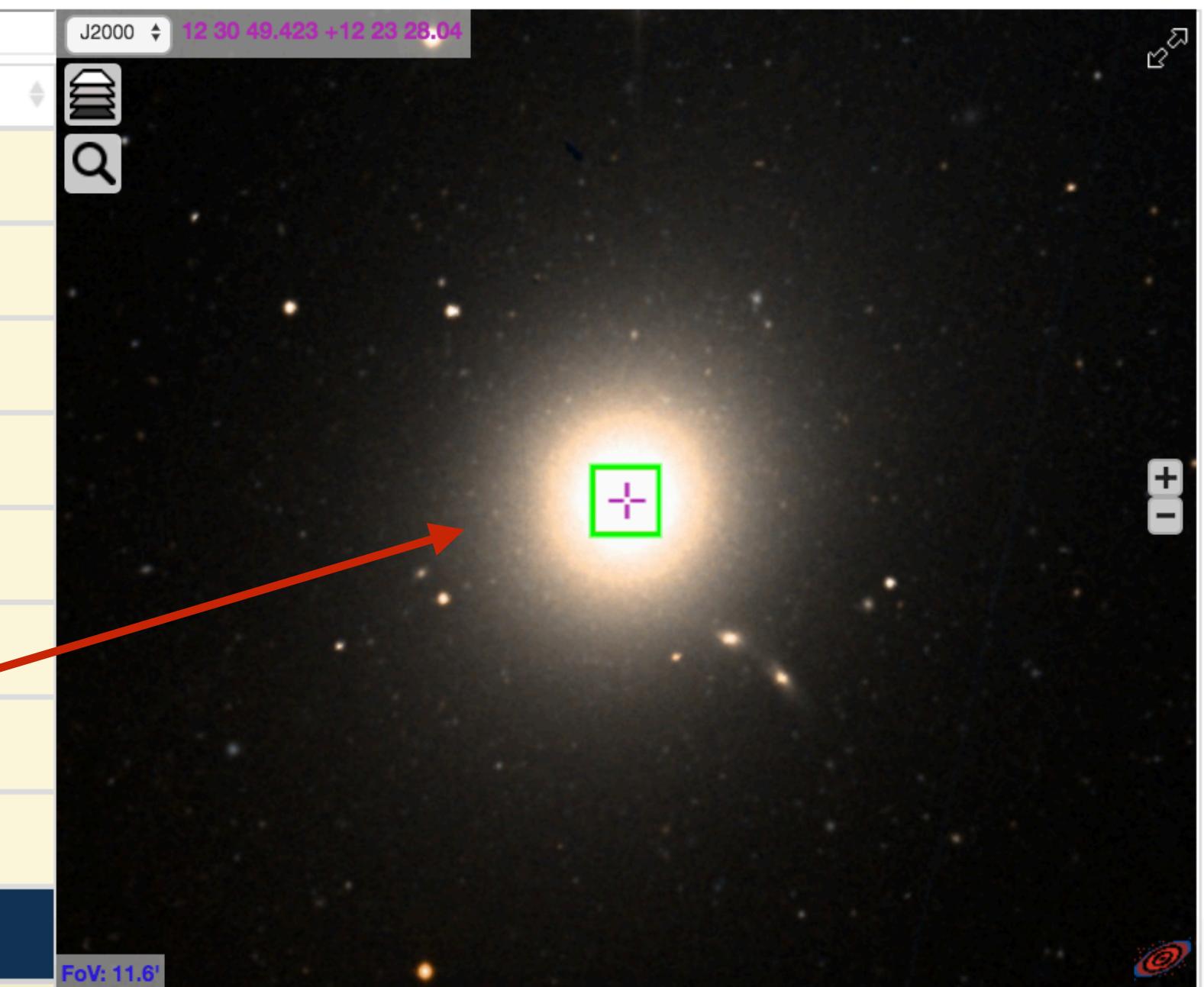
Search

- Switch between 'Show MetaData' and 'Show FitsData': draw the selected row
- Plots are overlaid to compare what has been observed VS what has been imaged

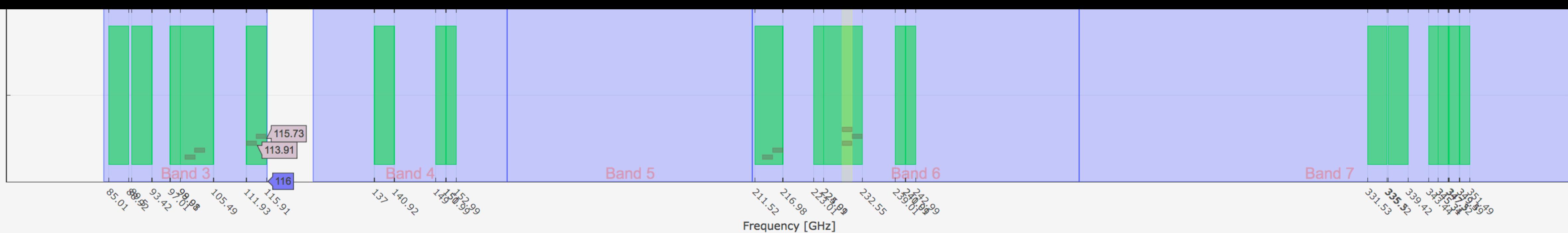
All Info FitsData

Show 10 ↑ entries

#	Fits file	Target	RA	DEC	Cube size	Freq. range	Proj. code	uid
1	Info	M87	12:30:49.42	12:23:28.04	4500x4500x1	136.991 --- 152.995	2015.1.01352.S	uid://A001/X2d6/X2be
2						52.995	2015.1.01352.S	uid://A001/X2d6/X2be
3						52.995	2015.1.01352.S	uid://A001/X2d6/X2be
4						-243	2015.1.01352.S	uid://A001/X2d6/X2c2
5						-243	2015.1.01352.S	uid://A001/X2d6/X2c2
6						-243	2015.1.01352.S	uid://A001/X2d6/X2c2
7						-243	2015.1.01352.S	uid://A001/X2d6/X2c2
8	Info	M87	12:30:49.42	12:23:28.04	3200x3200x1	222.993 --- 243	2015.1.01352.S	uid://A001/X2d6/X2c2
9	Info	M87	12:30:49.42	12:23:28.04	432x432x25	228.616 --- 230.538	2013.1.00073.S	uid://A001/X12f/X20f



- Clic on row. A yellow strip appears on the top plot. It correspond to the frequency range of the science product data cube. This is just a small slice of the frequency range that ALMA observed. The frequency range observed is in green. To have more informations about the frequency covered by ALMA (ie to which project it belongs), clic on 'Show MetaData'
- A green rectangle appear in AladinLite. It is the border to the image produced in fits format (crpix max and min). It is not exactly the FoV shape for mosaics



- Show all data.
- Show filename ending with ".pbcor.fits" and ".pbcorr.fits"
- Show filename ending with ".image.fits"
- Show filename ending with ".clean.fits"
- Show filename ending with ".cont.fits", ".line.fits"

Spectroscopic data source : Local JPL CDMS

Line intensity -1

Redshift

Atoms in species between and

Energy up max (cm⁻¹) :

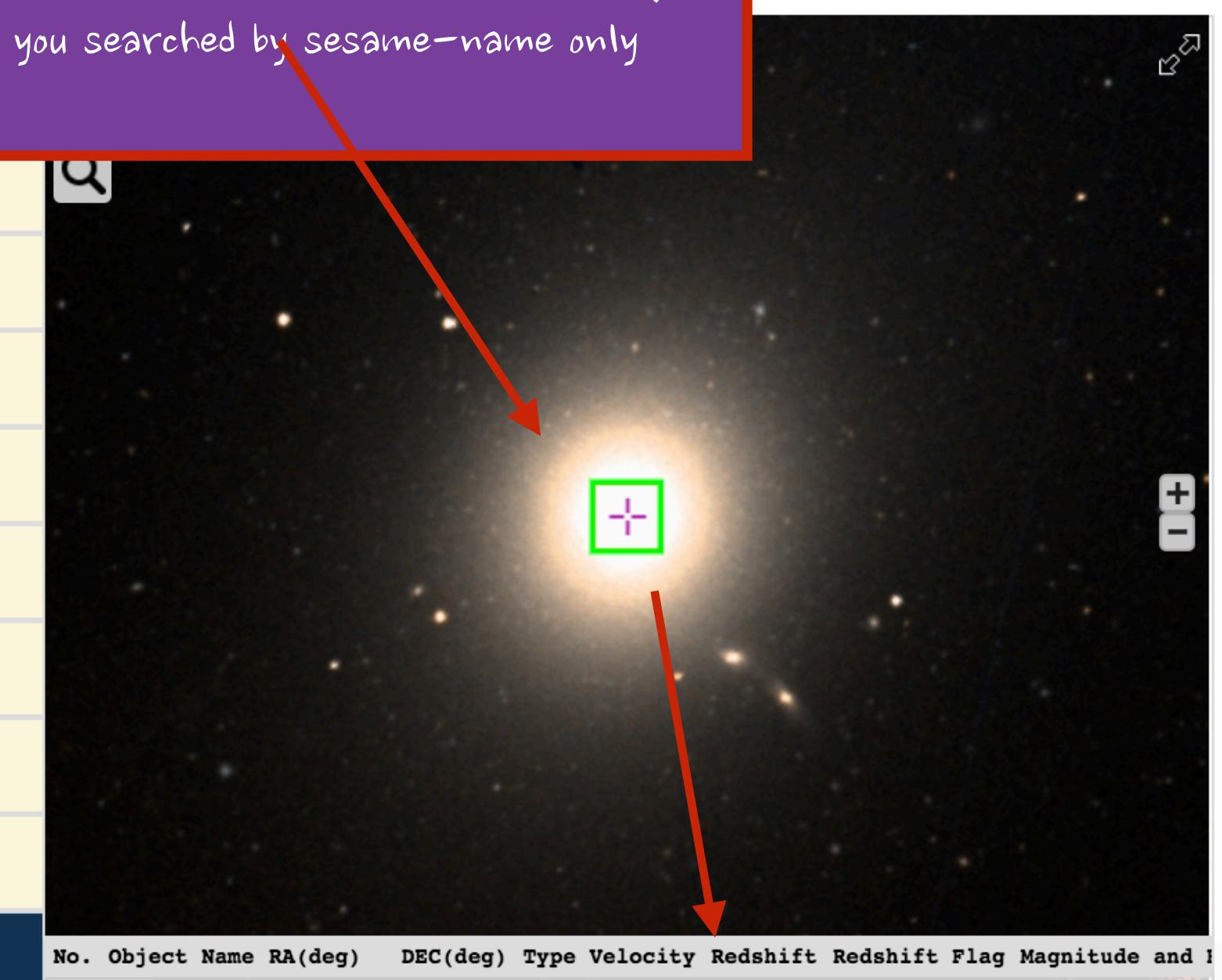
Search

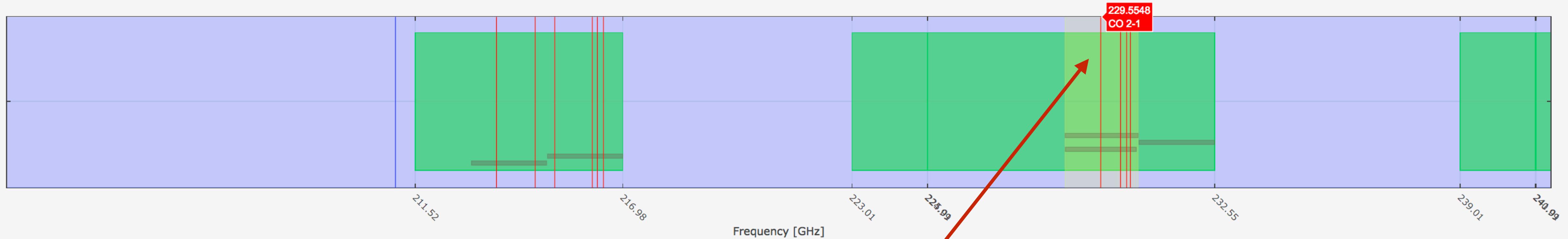
- Clic on the cross to get source information from AladinLite (ie the redshift).
Note that you will get this information if you searched by sesame-name only
(not with alma-name), by construction

All Info FitsData

Show 10 entries

#	Fits file	Target	RA	DEC	Cube size	Freq. range		
1	Info	M87	12:30:49.42	12:23:28.04	4500x4500x1	136.991 --- 152.995	2015.1.01352.S	uid://A001/X2d6/X2be
2	Info	M87	12:30:49.42	12:23:28.04	4500x4500x1	136.991 --- 152.995	2015.1.01352.S	uid://A001/X2d6/X2be
3	Info	M87	12:30:49.42	12:23:28.04	4500x4500x1	136.991 --- 152.995	2015.1.01352.S	uid://A001/X2d6/X2be
4	Info	M87	12:30:49.42	12:23:28.04	3200x3200x1	222.993 --- 243	2015.1.01352.S	uid://A001/X2d6/X2c2
5	Info	M87	12:30:49.42	12:23:28.04	3200x3200x1	222.993 --- 243	2015.1.01352.S	uid://A001/X2d6/X2c2
6	Info	M87	12:30:49.42	12:23:28.04	3200x3200x1	222.993 --- 243	2015.1.01352.S	uid://A001/X2d6/X2c2
7	Info	M87	12:30:49.42	12:23:28.04	3200x3200x1	222.993 --- 243	2015.1.01352.S	uid://A001/X2d6/X2c2
8	Info	M87	12:30:49.42	12:23:28.04	3200x3200x1	222.993 --- 243	2015.1.01352.S	uid://A001/X2d6/X2c2
9	Info	M87	12:30:49.42	12:23:28.04	432x432x25	228.616 --- 230.538	2013.1.00073.S	uid://A001/X12f/X20f





- Show all data.
- Show filename ending with ".pbcor.fits" and ".pbcorr.fits"
- Show filename ending with ".image.fits"
- Show filename ending with ".clean.fits"
- Show filename ending with ".cont.fits", ".line.fits"

Spectroscopic data source : Local JPL CDMS

Line intensity

Redshift

Atoms in species between and

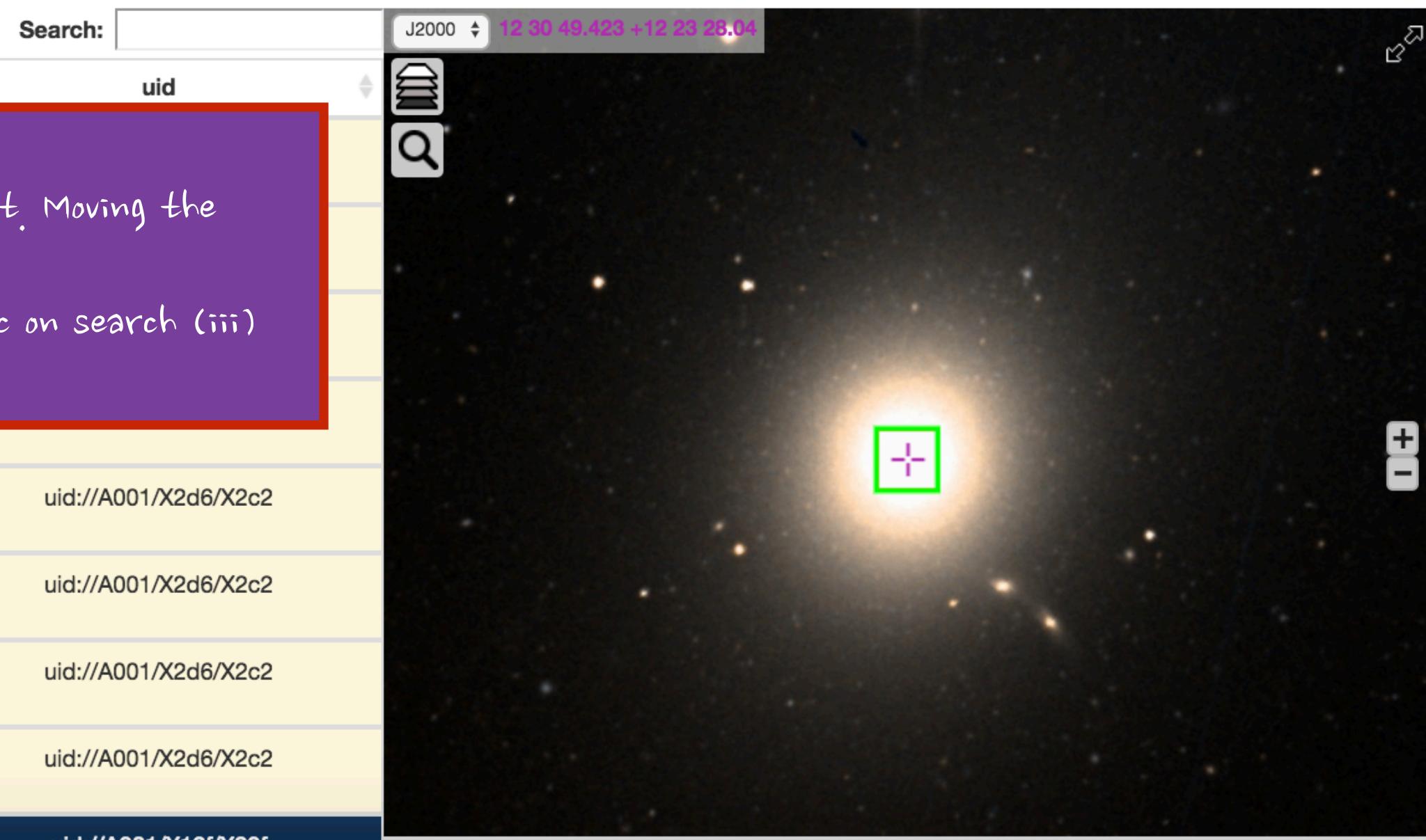
Energy up max (cm⁻¹) :

Search

All Info FitsData

Show 10 entries

#	Fits file	Target	RA	DEC	Cube size	Freq. range	Proj. code	uid
1	Info							
2	Info							
3	Info							
4	Info							
5	Info	M87	12:30:49.42	12:23:28.04	3200x3200x1	222.993 --- 243	2015.1.01352.S	uid://A001/X2d6/X2c2
6	Info	M87	12:30:49.42	12:23:28.04	3200x3200x1	222.993 --- 243	2015.1.01352.S	uid://A001/X2d6/X2c2
7	Info	M87	12:30:49.42	12:23:28.04	3200x3200x1	222.993 --- 243	2015.1.01352.S	uid://A001/X2d6/X2c2
8	Info	M87	12:30:49.42	12:23:28.04	3200x3200x1	222.993 --- 243	2015.1.01352.S	uid://A001/X2d6/X2c2



- Select a line (clic on a row → blue) and clic on search : display the line catalogue on the top-plot. Moving the mouse tells you to which species it corresponds. Redshift or velocity is taken into account.
- How to : you need to zoom to be able to see that. So follow this path: (i) select a line and (ii) clic on search (iii) zoom

Project code : 2013/2013.1.008

2013/2013.1.00862.S/science_goal.uid__A001_X145_X2d5/group.uid__A001_X145_X2d6/member.uid__A001_X145_X2d7/product/calibrated.ms.contsub.clean.CO.image.fits
ADS publications
ESO Archive
NASA/IPAC Extragalactic Database - NED
SIMBAD CDS

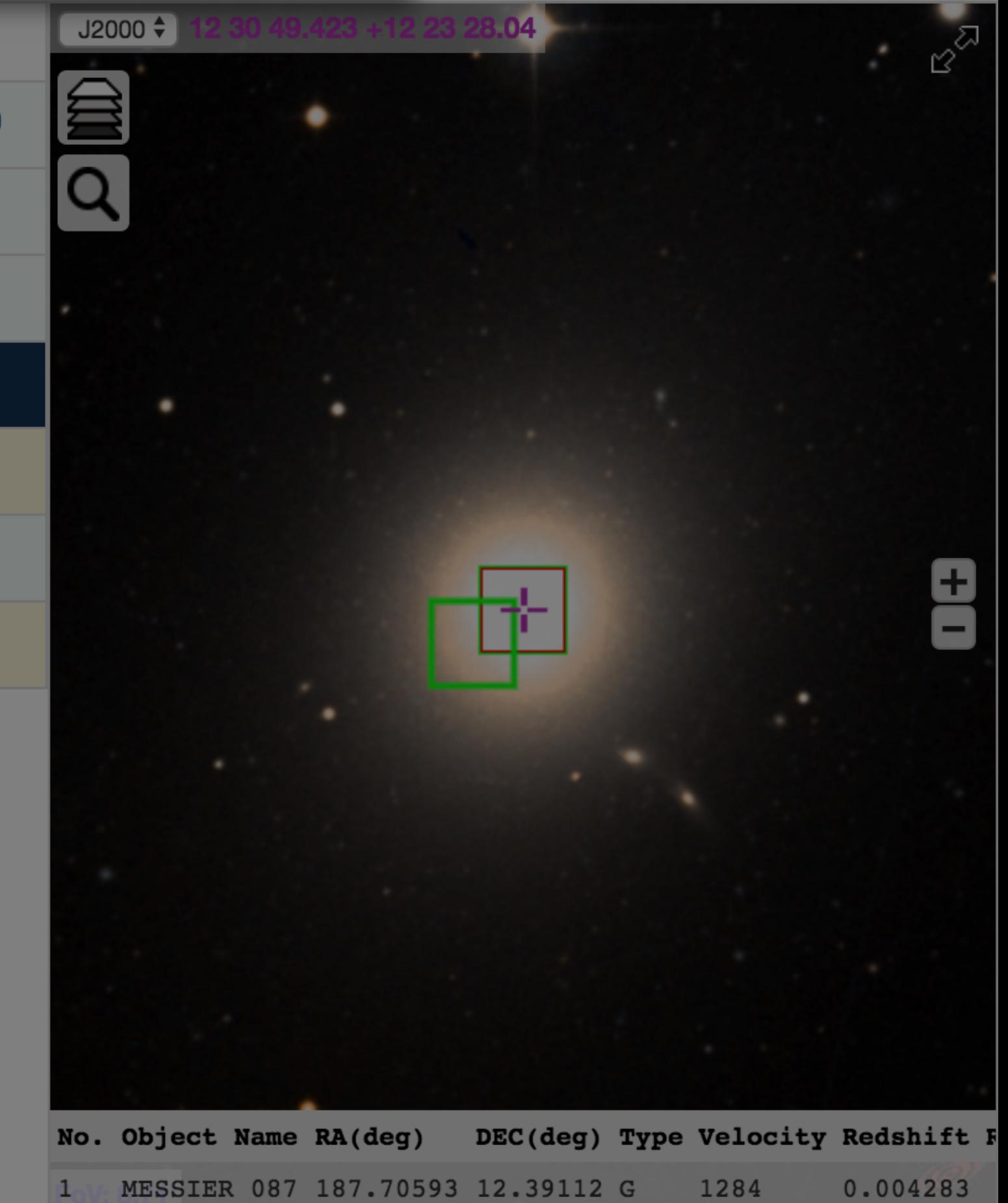
0.004283 Velocity (km/s)

Close

Show all data. Initially shown are the data

#	Fits file	Target	RA	DEC	Cube size	Freq. range	Proj. code	uid
1	Info ▾	M87	12:30:49.42	12:23:28.04	512x512x159	115.723 --- 113.86	2012.1.00661.S	uid://A002/X6444ba/X1b0
2	Info ▾	M87_SE	12:30:51.46	12:23:7.69	250x250x15	230.585 --- 231.164	2013.1.00862.S	uid://A001/X145/X2d7
3	Info ▾	M87_SE	12:30:51.46	12:23:7.69	250x250x15	230.585 --- 231.164	2013.1.00862.S	uid://A001/X145/X2d7
4	Info ▾	M87_SE	12:30:51.46	12:23:7.69	250x250x24	228.999 --- 229.921	2013.1.00862.S	uid://A001/X145/X2d7
5	Info ▾	M87_SE	12:30:51.46	12:23:7.69	250x250x1	212.092 --- 216.089	2013.1.00862.S	uid://A001/X145/X2d7
6	Info ▾	M87_SE	12:30:51.46	12:23:7.69	250x250x24	228.999 --- 229.921	2013.1.00862.S	uid://A001/X145/X2d7
7	Info ▾	M87_SE	12:30:51.46	12:23:7.69	250x250x1	212.092 --- 216.089	2013.1.00862.S	uid://A001/X145/X2d7

- Clic on the info button : gives you the full path of this dataset (project code, mous_id) and the original name given to this fits file. In general this names may contain the name of the line or contsub if the continuum was subtracted, clean if it is already cleaned, pbcorr if it was primary beam corrected
- External link to ADS to search for the ALMA code for this dataset (may not work for the very first ALMA cycles)
- External link to the ESO/NRAO archive to download the raw data and redo your own calibration and imaging



0.004283 Velocity (km/s) All Info Show

Show all data. Initially shown are the data of which the filename

#	Fits file	Target	RA	DEC			
1	Info ▾	M87	12:30:49.42	12:23:28.04	512x512x159	115.723 --- 113.86	2012.1.00661.S uid://A002/X6444ba/X1b0
2	Info ▾	M87_SE	12:30:51.46	12:23:7.69	250x250x15	230.585 --- 231.164	2013.1.00862.S uid://A001/X145/X2d7
3	Info ▾	M87_SE	12:30:51.46	12:23:7.69	250x250x15	230.585 --- 231.164	2013.1.00862.S uid://A001/X145/X2d7
4	Info ▾	M87_SE	12:30:51.46	12:23:7.69	250x250x24	228.999 --- 229.921	2013.1.00862.S uid://A001/X145/X2d7
5	Info ▾	M87_SE	12:30:51.46	12:23:7.69	250x250x1	212.092 --- 216.089	2013.1.00862.S uid://A001/X145/X2d7
6	Info ▾	M87_SE	12:30:51.46	12:23:7.69	250x250x24	228.999 --- 229.921	2013.1.00862.S uid://A001/X145/X2d7
7	Info ▾	M87_SE	12:30:51.46	12:23:7.69	250x250x1	212.092 --- 216.089	2013.1.00862.S uid://A001/X145/X2d7

Close

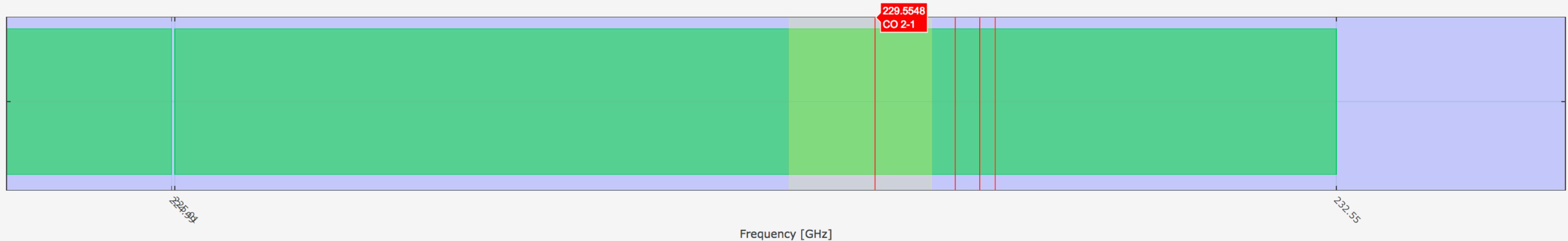
2012.1.00661.S ADS publications ESO Archive
 2013.1.00862.S ADS publications ESO Archive
 2013.1.00073.S ADS publications ESO Archive
 2015.1.01352.S ADS publications ESO Archive
 2015.1.01170.S ADS publications ESO Archive
 2013.1.01022.S ADS publications ESO Archive
 2015.1.00030.S ADS publications ESO Archive
 2016.1.00021.S ADS publications ESO Archive
 2016.1.01154.V ADS publications ESO Archive
 2016.1.00415.S ADS publications ESO Archive

Band 6

J2000 12 30 49.423 +12 23 28.04

MESSIER 087 187.70593 12.39112 G 1284 0.004283

- opens a pop-up window that displays the list of all the project codes that contains the region of interest you have selected (source coordinates and inside a given radius of 10 arcmin by default)
 - Note that some of these data are not public yet. The corresponding fits files thus cannot be previewed, so they will not appear in the table. However, it is possible to display the metadata (click on 'Show MetaData')



- Show all data.
- Show filename ending with ".pbcor.fits" and ".pbcorr.fits"
- Show filename ending with ".image.fits"
- Show filename ending with ".clean.fits"
- Show filename ending with ".cont.fits", ".line.fits"

Spectroscopic data source : Local JPL CDMS

Line intensity

Redshift

Atoms in species between and

Energy up max (cm⁻¹) :

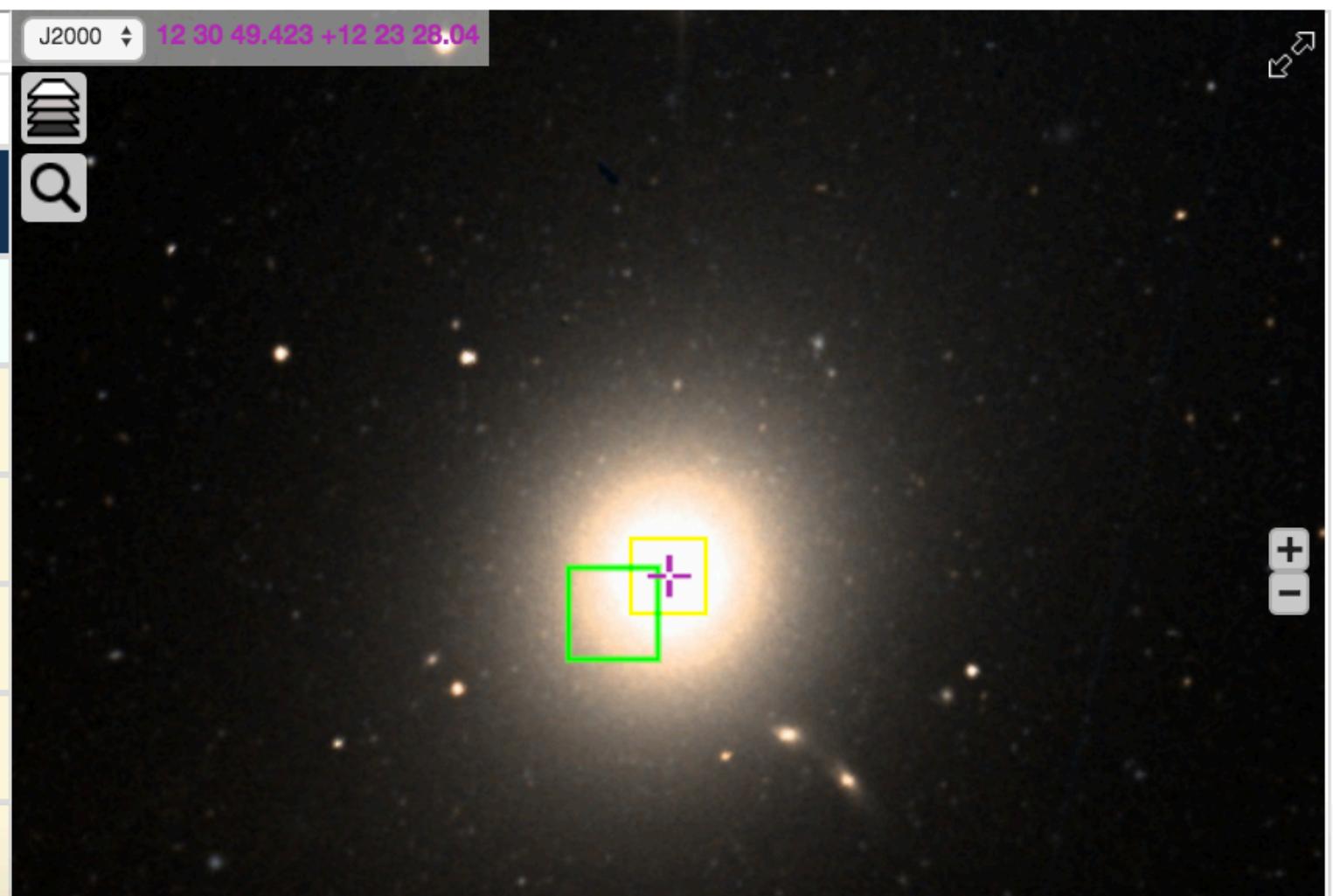
All Info

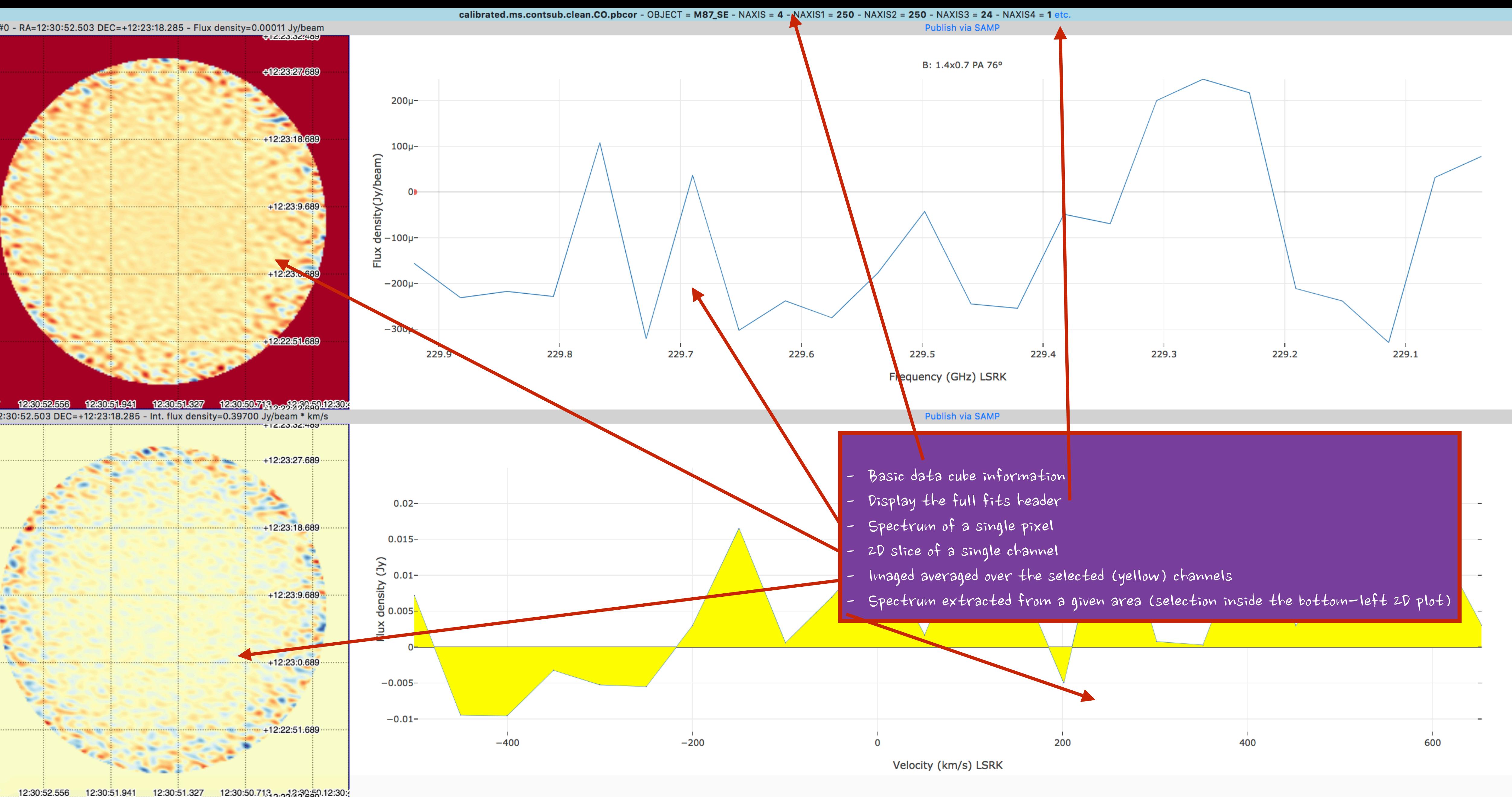
Show 10 entries

Search: J2000

#	Fits file	Target	RA	DEC	Cube size	Freq. range	Proj. code	uid
11	<input type="button" value="Info"/>	M87_SE	12:30:51.46	12:23:7.69	250x250x24	228.999 --- 229.921	2013.1.00862.S	uid://A001/X145/X2d7
12		M87	12:30:49.42	12:23:28.04	432x432x25	228.616 --- 230.538	2013.1.00073.S	uid://A001/X12f/X20f
13		M87	12:30:49.42	12:23:28.04	432x432x25	228.616 --- 230.538	2013.1.00073.S	uid://A001/X12f/X20f
14	<input type="button" value="Info"/>	M87	12:30:49.42	12:23:28.04	432x432x25	228.616 --- 230.538	2013.1.00073.S	uid://A001/X12f/X20f
15	<input type="button" value="Info"/>	M87	12:30:49.42	12:23:28.04	432x432x25	228.616 --- 230.538	2013.1.00073.S	uid://A001/X12f/X20f
16	<input type="button" value="Info"/>	M87	12:30:49.42	12:23:28.04	432x432x1	212.98 --- 232.548	2013.1.00073.S	uid://A001/X12f/X20f
17	<input type="button" value="Info"/>	M87	12:30:49.42	12:23:28.04	800x800x1	212.988 --- 232.557	2013.1.00073.S	uid://A001/X12f/X20d

- Clic on the arrow : select / unselect all the rows
- Open the fits file in a quick look remote viewer

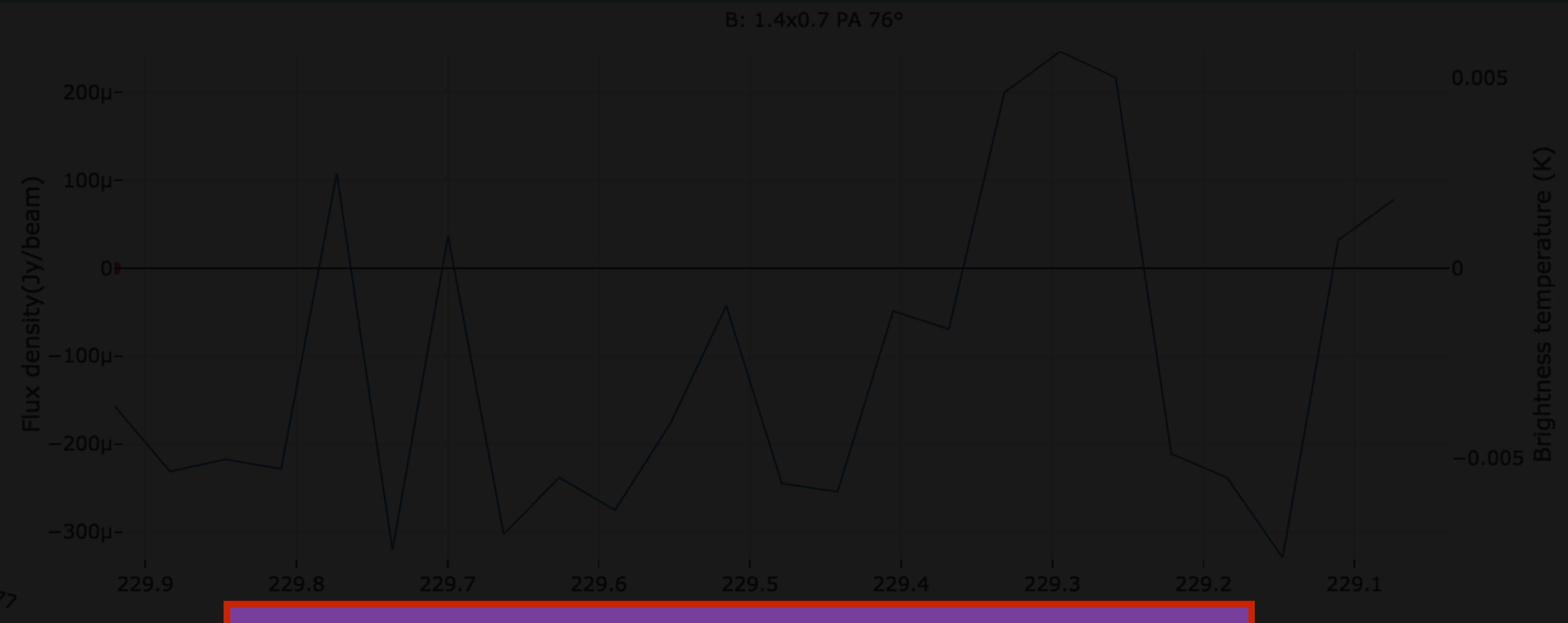




OBJECT: M87_SE

calibrated.ms.contsub.clean.CO.image.fits - OBJECT = M87_SE - NAXIS = 4 - NAXIS1 = 250 - NAXIS2 = 250 - NAXIS3 = 24 - NAXIS4 = 1 etc.

DATE	2015-08-20T04:55:43.625000
ORIGIN	CASA 4.3.1-REL (r32491)
DATE-OBS	2014-12-11T09:06:27.455999
TELESCOP	ALMA
OBSERVER	aurora
EQUINOX	2000
RESTFRQ	229537000000
SIMPLE	true
BITPIX	-32
NAXIS	4
NAXIS1	250
NAXIS2	250
NAXIS3	24
NAXIS4	12h30m53.1703s



BMIN

0.0002057837777668

BMAJ

0.0003764896260367

BPA

76.44624328613

BSCALE

1

BZERO

0

BUNIT

Jy/beam

CTYPE1

RA---SIN

CTYPE2

DEC--SIN

CTYPE3

FREQ

CTYPE4

STOKES

CRPIX1

126

CRPIX2

126

CRPIX3

1

CRPIX4

1

CRVAL1

187.7144333333

CRVAL2

12.38546944444

CRVAL3

229920469281

CRVAL4

12h30m53.1703s

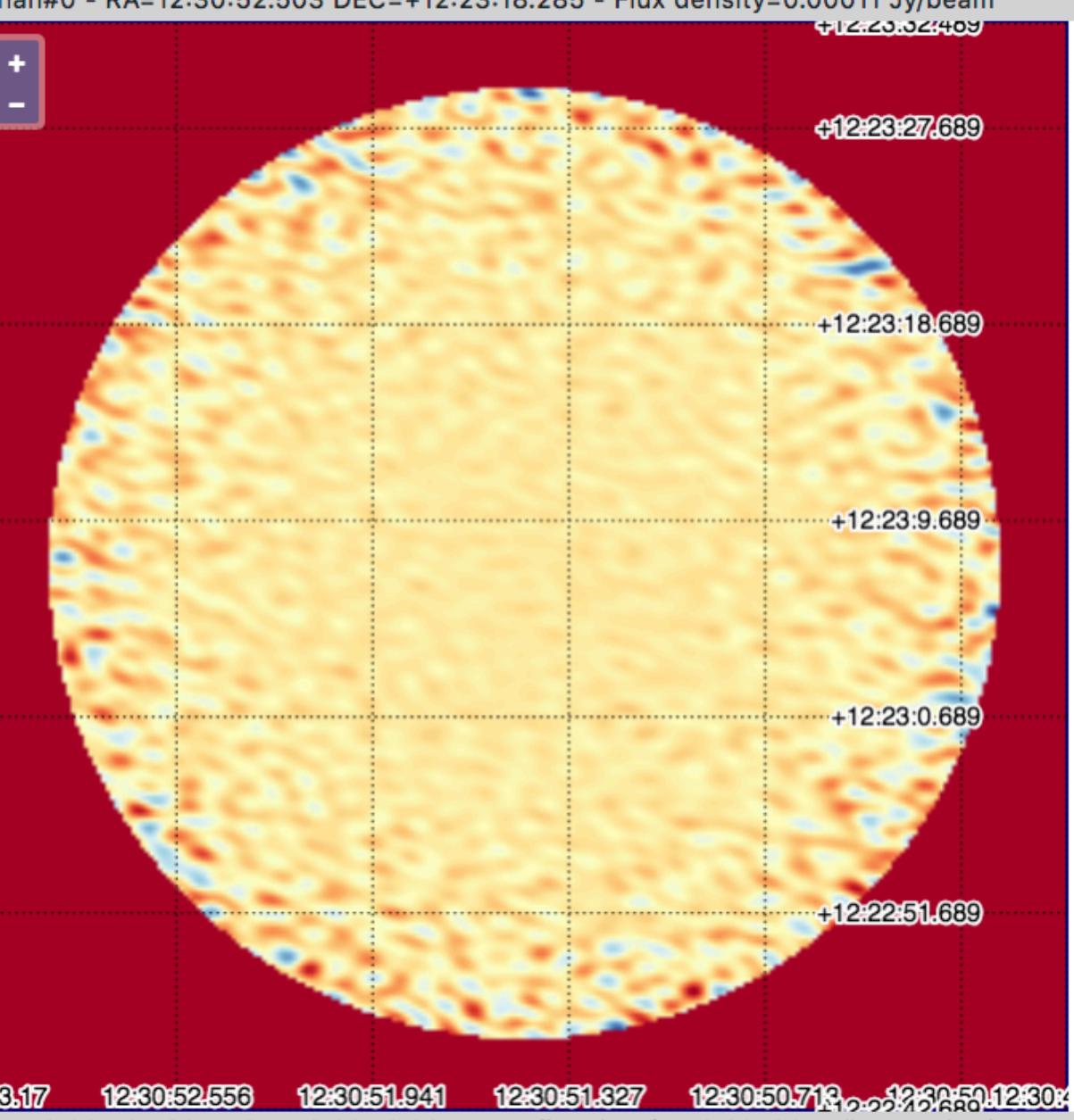
CDELT1

-0.0000555555555556

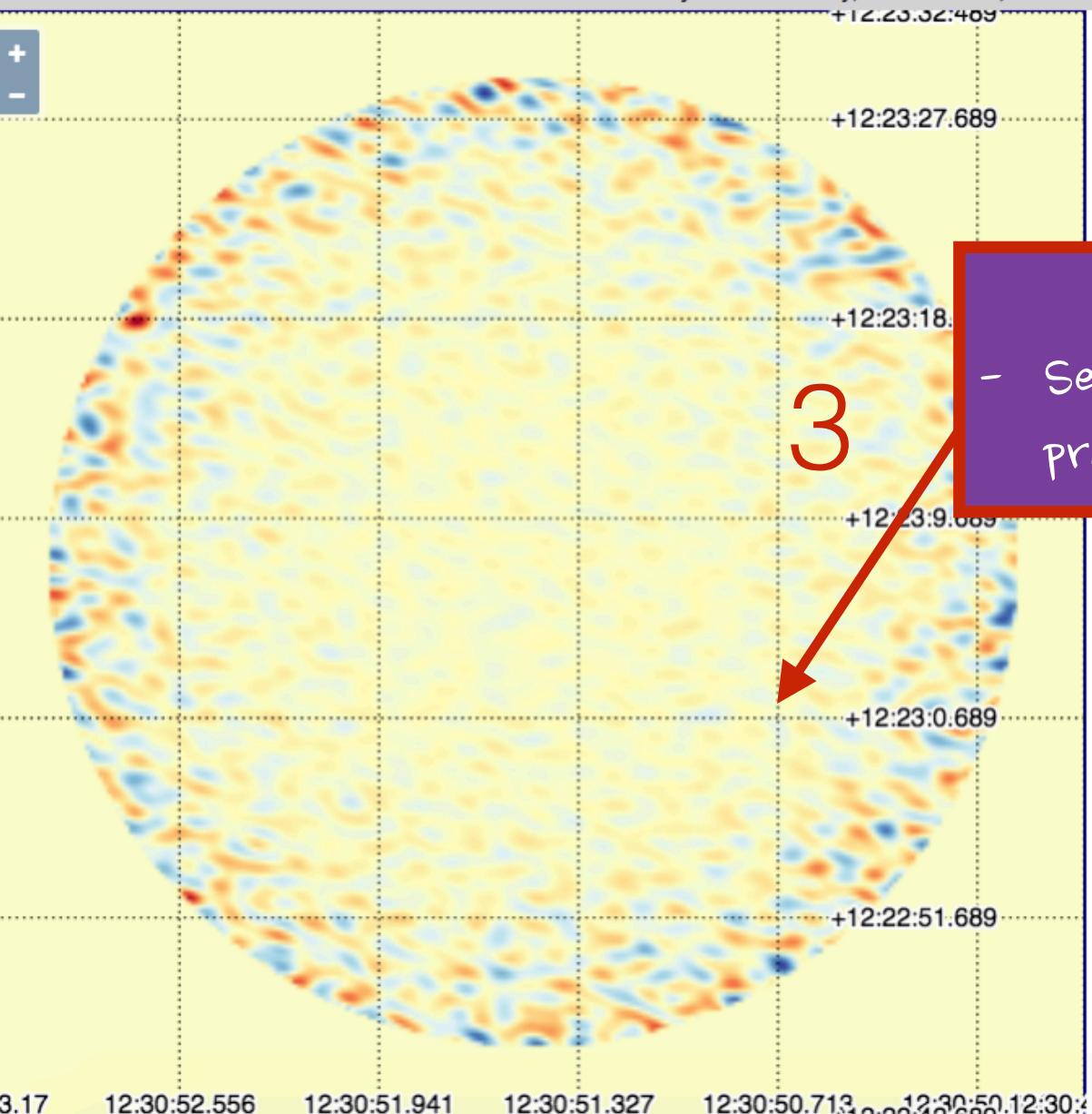
CDELT2

-0.0005555555555556

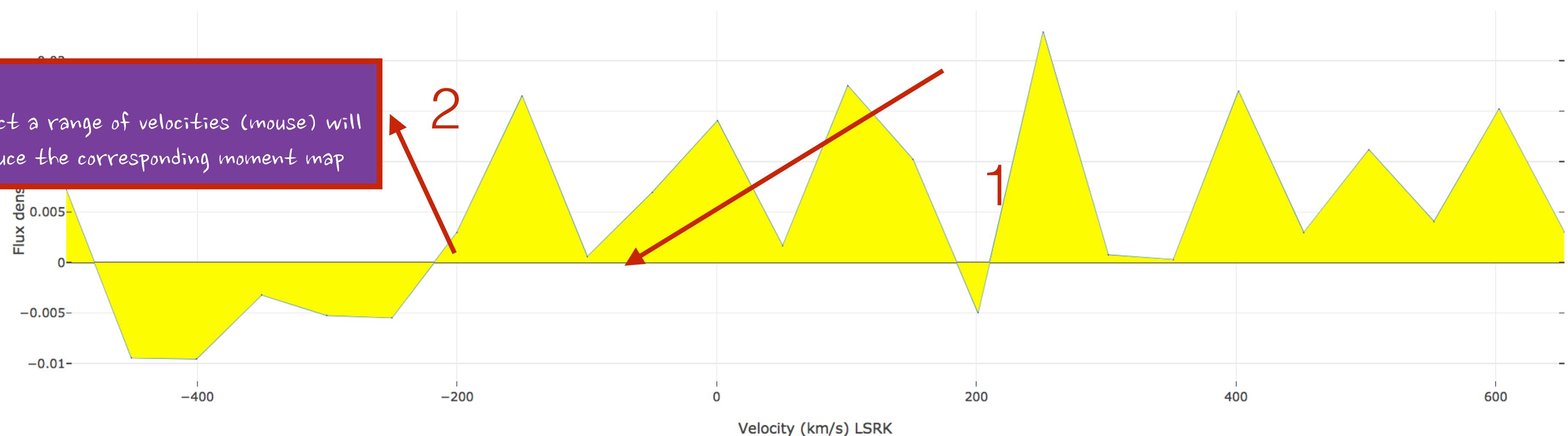
- Fits header (scroll up and down). Click on the top-right cross to close this window

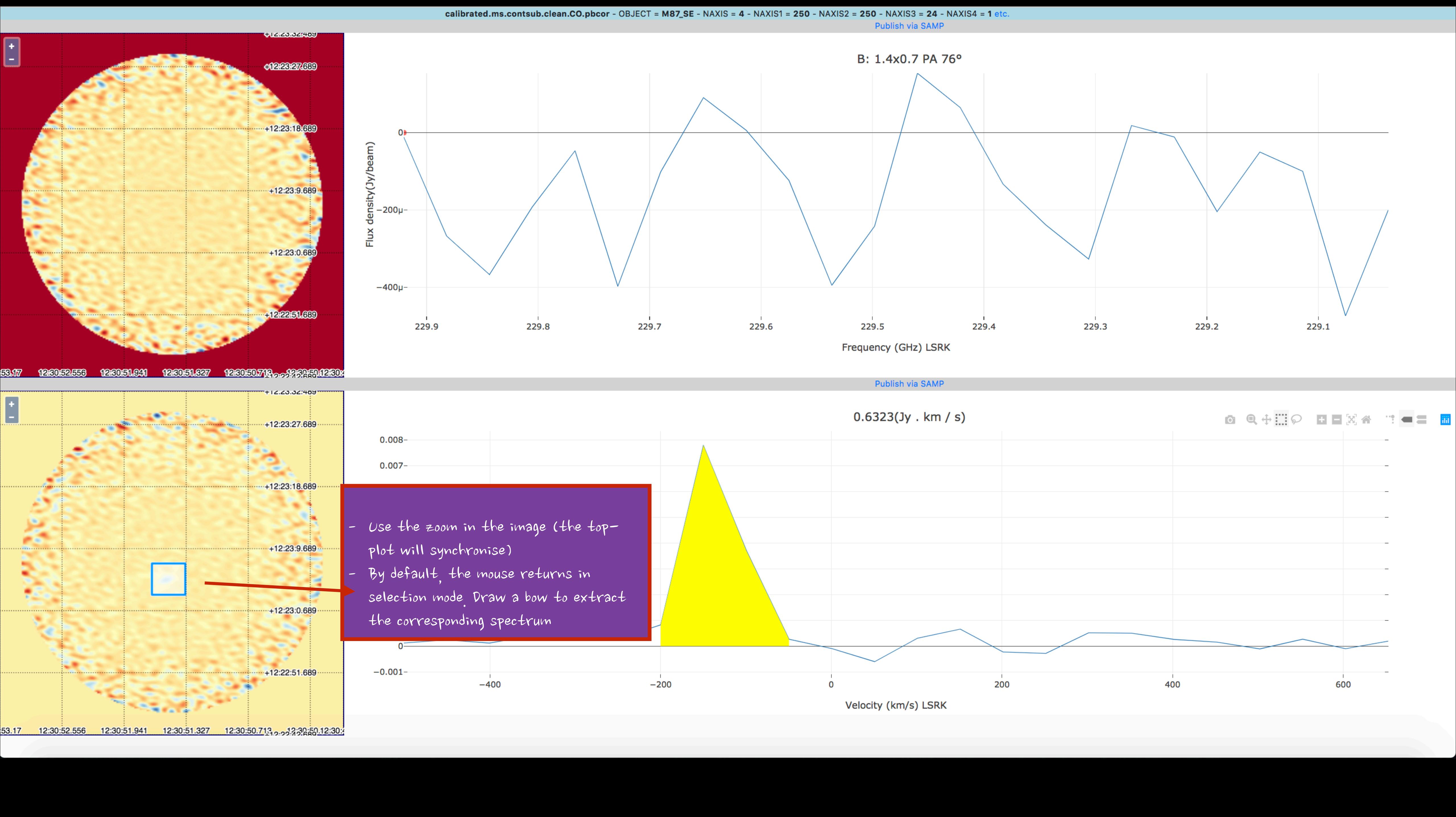


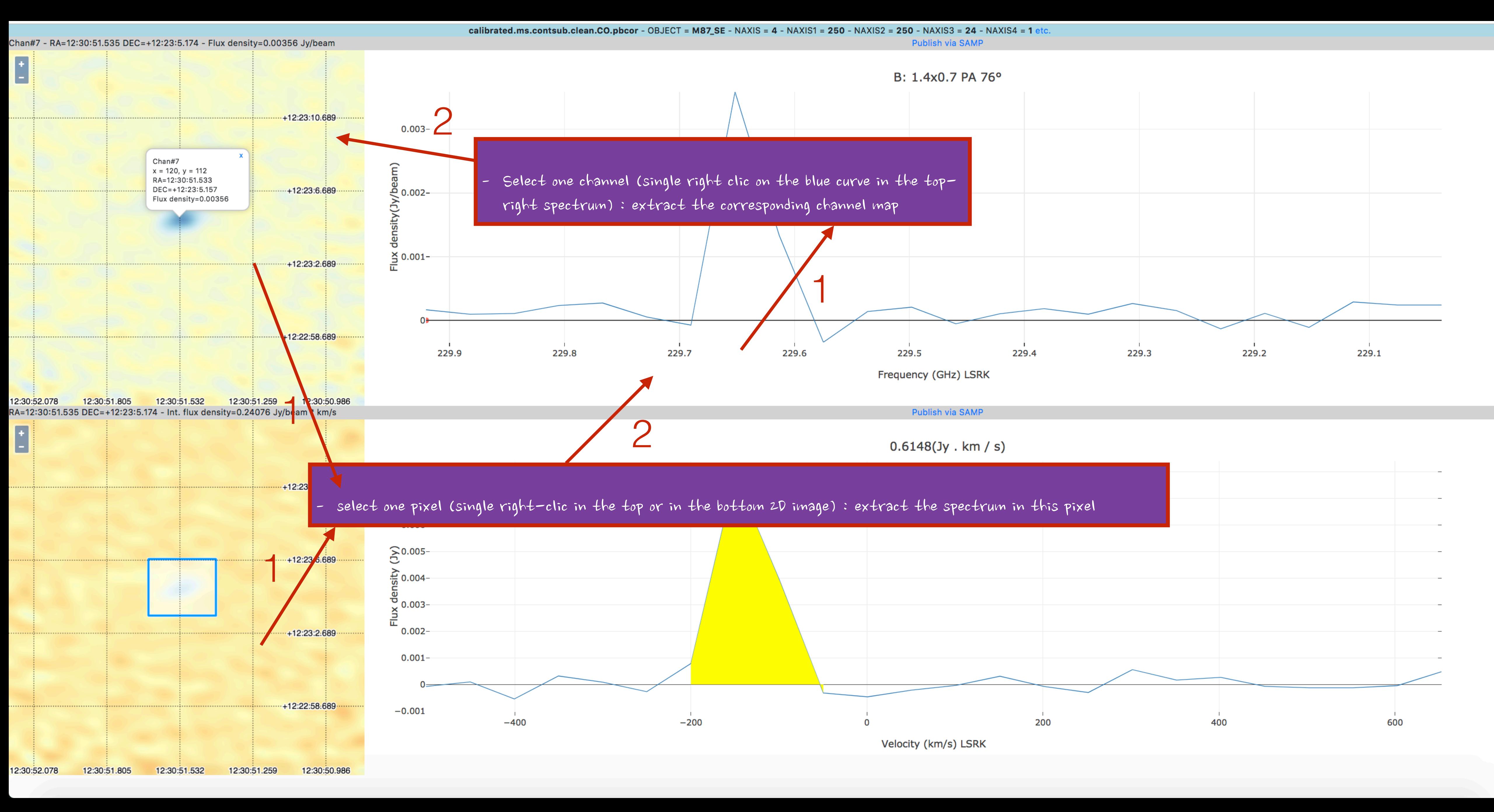
A=12:30:52.503 DEC=+12:23:18.285 - Int. flux density=0.39700 Jy/beam * km/s

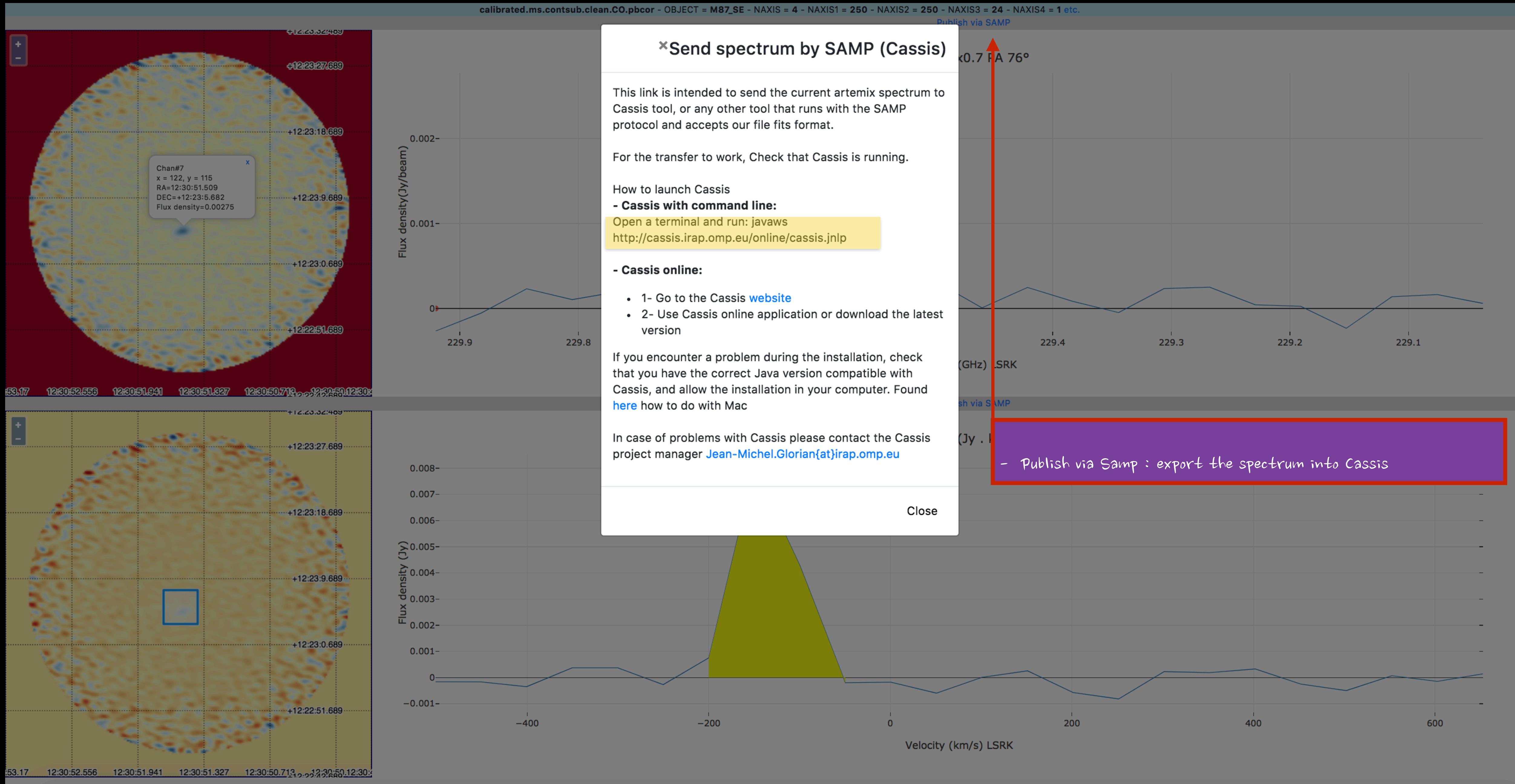


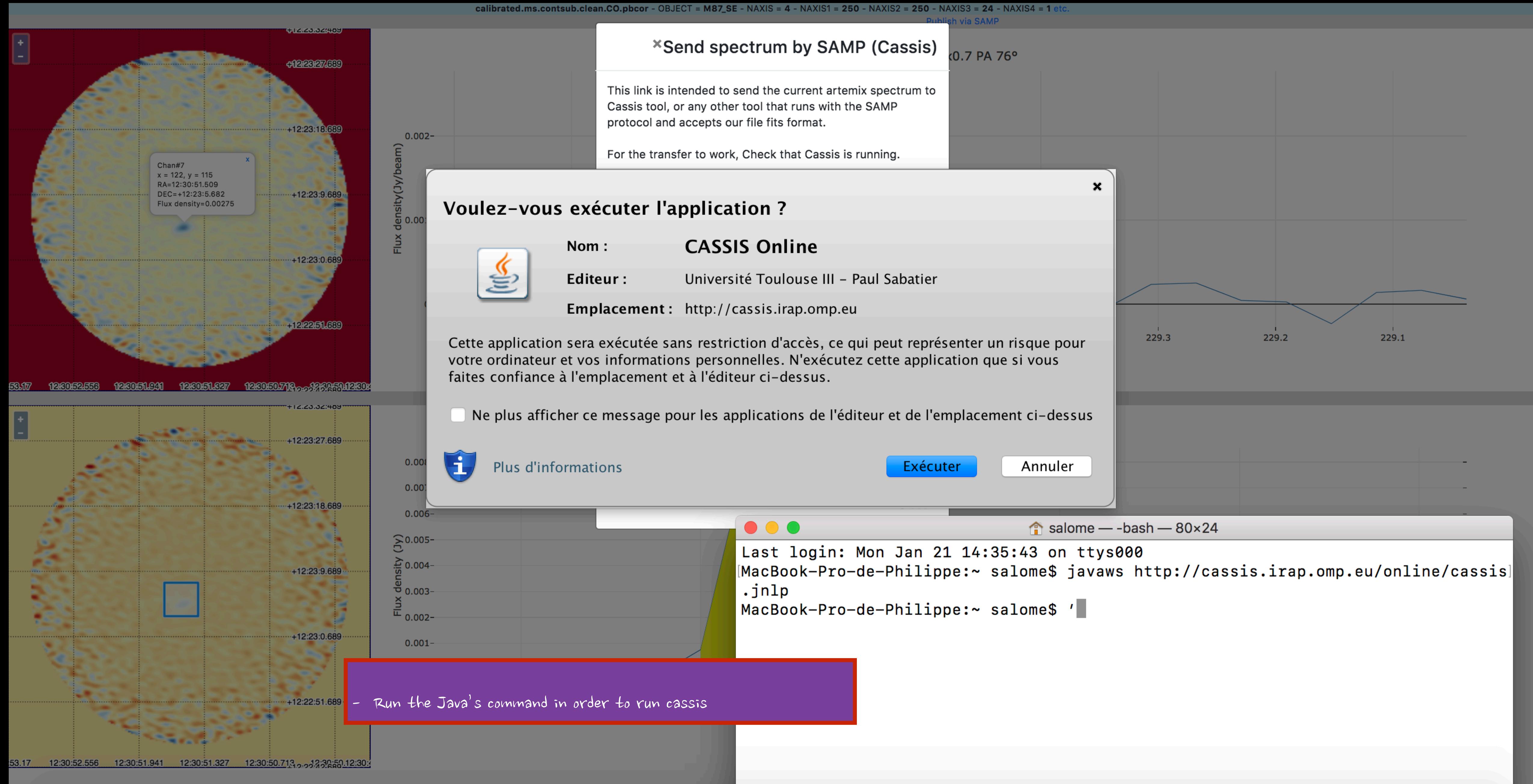
- Select a range of velocities (mouse) will produce the corresponding moment map

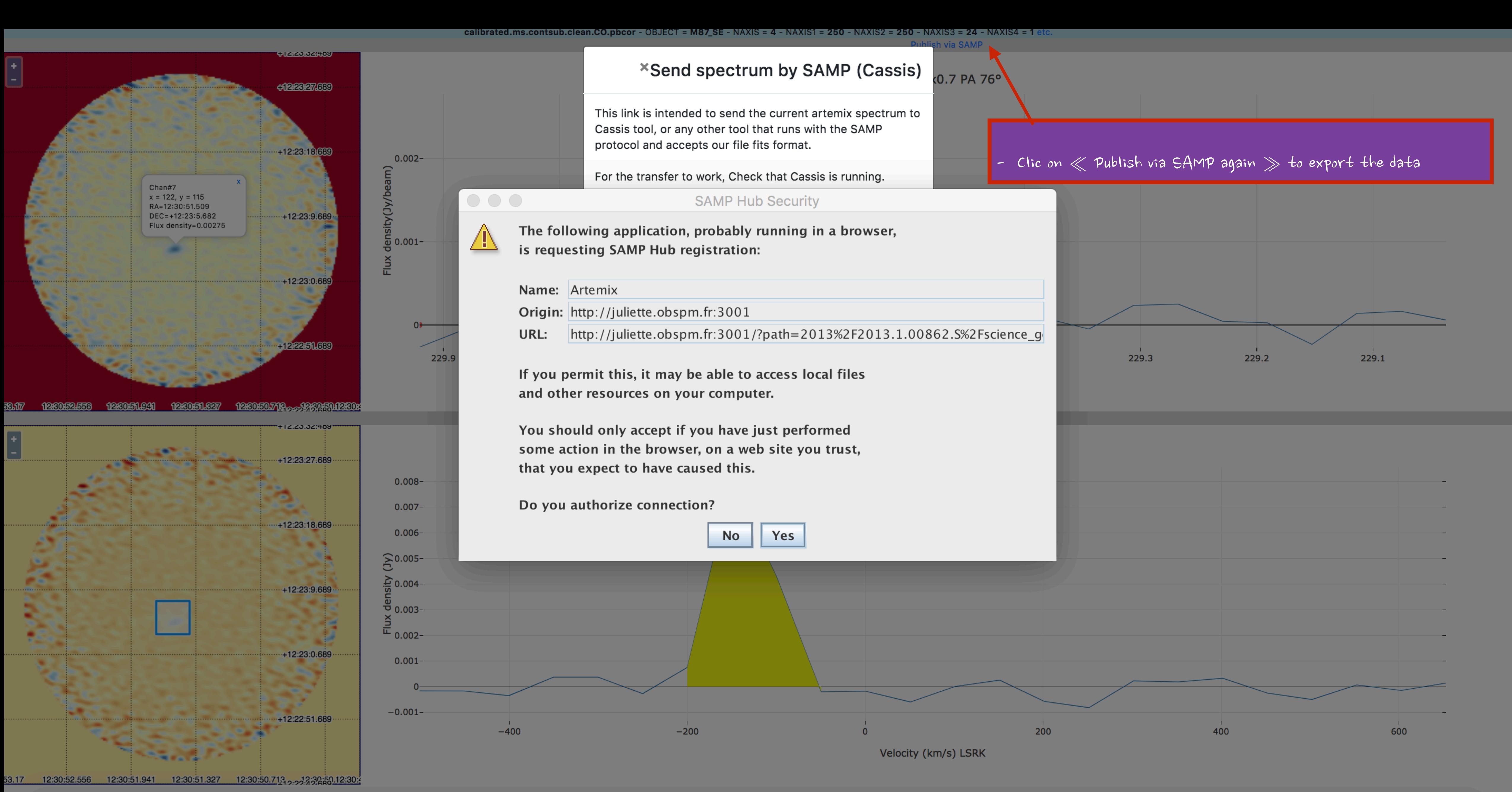


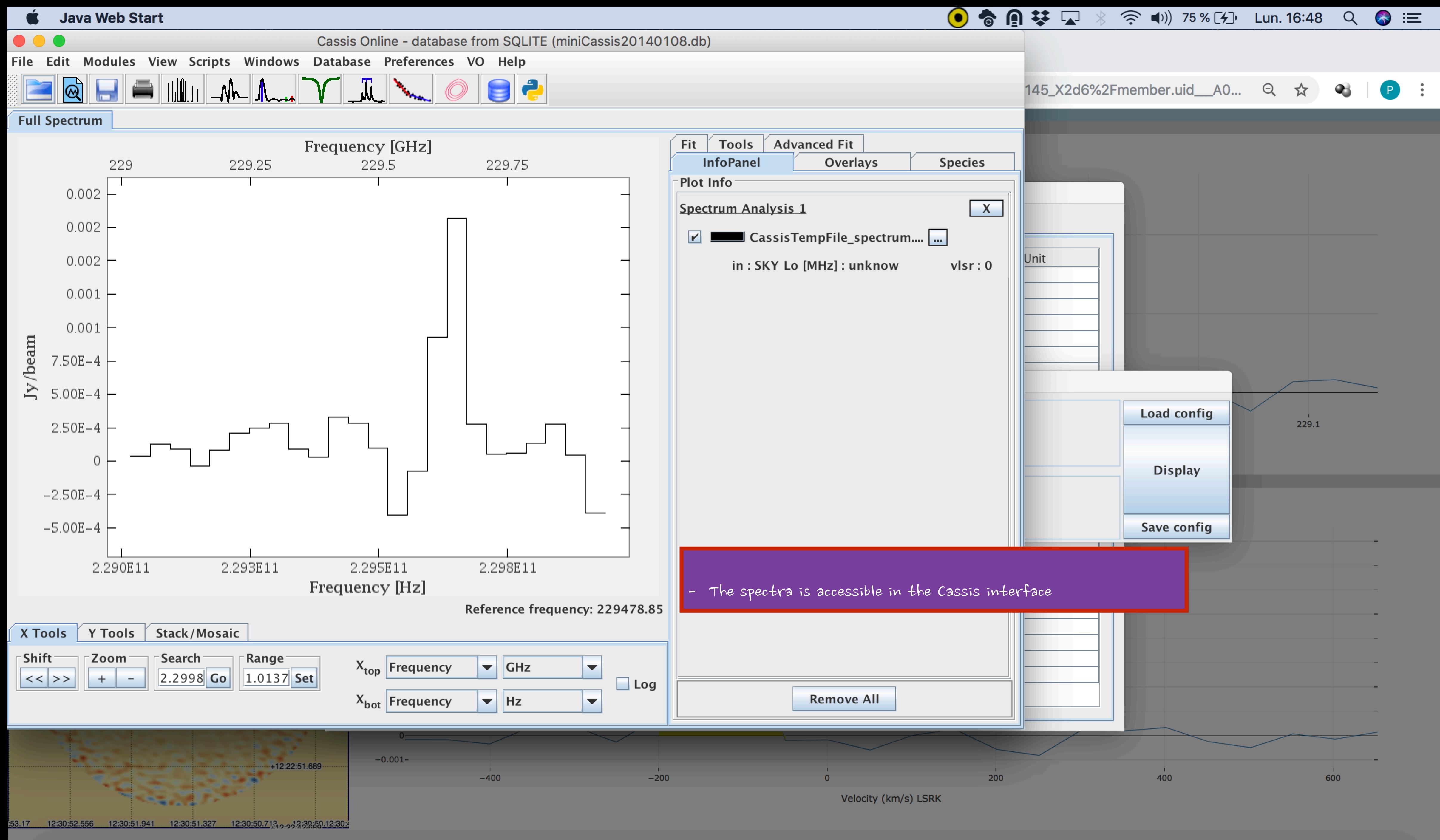












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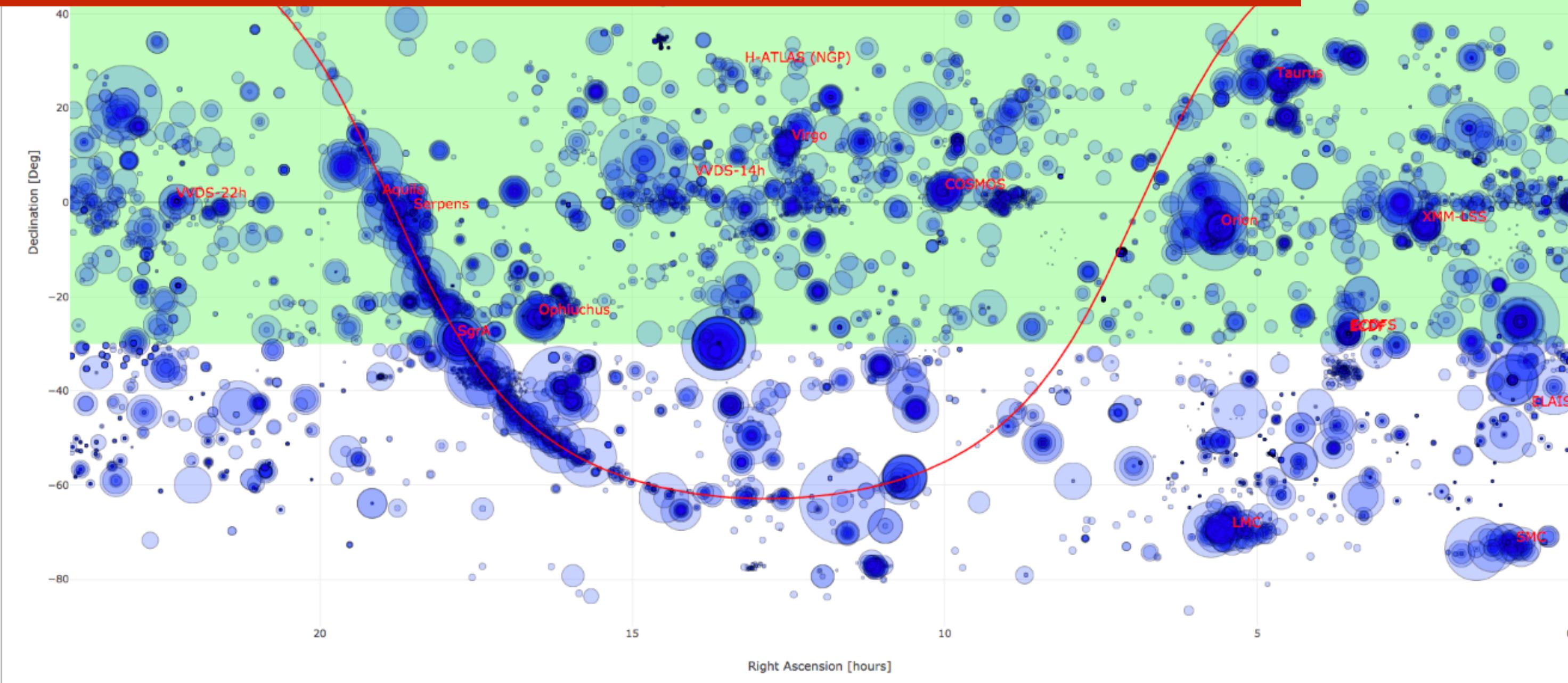
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Artemix is an ALMA data mining experiment prototype under development. Supported by the LERMA and the Paris Observatory, its aim is to provide astronomers with a webservice that enables to quickly explore the ALMA scientific Archive content.

FITS file browser

The screenshot shows a file browser interface for FITS files. The left pane displays a hierarchical file structure:

- /
- 2012
- 2015
- log
- 2011
- 2016
 - 2016.1.00033.S
 - science_goal.uid__A001_X87d_Xa06
 - group.uid__A001_X87d_Xa07
 - member.uid__A001_X87d_Xa08
 - product
 - uid_A001_X87d_Xa08.CIT_6_sci.spw29(cube.I.pb.fits 4.8 GB)
 - uid_A001_X87d_Xa08.CIT_6_sci.spw27(cube.I.pbcor.fits 9.61 GB)
 - uid_A001_X87d_Xa08.J0956+2515_ph.spw29.mfs.I.pbcor.fits 360.0 KB
 - uid_A001_X87d_Xa08.J0956+2515_ph.spw29.mfs.I.pb.fits 360.0 KB
 - uid_A001_X87d_Xa08.CIT_6_sci.spw27(cube.I.pb.fits 9.61 GB)
 - uid_A001_X87d_Xa08.CIT_6_sci.spw27.mfs.I.pb.fits 2.57 MB
 - uid_A001_X87d_Xa08.J0854+2006_bp.spw29.mfs.I.pbcor.fits 360.0 KB
 - uid_A001_X87d_Xa08.CIT_6_sci.spw25.mfs.I.pb.fits 2.57 MB
 - uid_A001_X87d_Xa08.CIT_6_sci.spw31.mfs.I.pb.fits 2.57 MB
 - uid_A001_X87d_Xa08.CIT_6_sci.spw29.mfs.I.pbcor.fits 2.57 MB
 - uid_A001_X87d_Xa08.CIT_6_sci.spw25(cube.I.pb.fits 4.8 GB)
 - uid_A001_X87d_Xa08.J0854+2006_bp.spw29.mfs.I.pb.fits 360.0 KB
 - uid_A001_X87d_Xa08.CIT_6_sci.spw27.mfs.I.pbcor.fits 2.57 MB
 - uid_A001_X87d_Xa08.CIT_6_sci.spw25.mfs.I.pbcor.fits 4.8 GB
 - uid_A001_X87d_Xa08.J0956+2515_ph.spw31.mfs.I.pb.fits 360.0 KB
 - uid_A001_X87d_Xa08.CIT_6_sci.spw25_27_29_31.cont.I.pbcor.fits 2.57 MB
 - uid_A001_X87d_Xa08.J0956+2515_ph.spw25.mfs.I.pb.fits 360.0 KB
 - uid_A001_X87d_Xa08.CIT_6_sci.spw25.mfs.I.pbcor.fits 2.57 MB
 - uid_A001_X87d_Xa08.J0854+2006_bp.spw27.mfs.I.pb.fits 360.0 KB
 - uid_A001_X87d_Xa08.CIT_6_sci.spw31.mfs.I.pbcor.fits 2.57 MB
 - uid_A001_X87d_Xa08.J0854+2006_bp.spw25.mfs.I.pbcor.fits 360.0 KB
 - uid_A001_X87d_Xa08.J0854+2006_bp.spw31.mfs.I.pb.fits 360.0 KB
 - uid_A001_X87d_Xa08.CIT_6_sci.spw25_27_29_31.cont.I.pb.fits 2.57 MB
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 - uid_A001_X87d_Xa08.J0854+2006_bp.spw31.mfs.I.pbcor.fits 360.0 KB
 - uid_A001_X87d_Xa08.CIT_6_sci.spw31(cube.I.pbcor.fits 9.61 GB)
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 - uid_A001_X87d_Xa08.CIT_6_sci.spw31(cube.I.pb.fits 9.61 GB)
 - uid_A001_X87d_Xa08.J0956+2515_ph.spw31.mfs.I.pbcor.fits 360.0 KB
 - uid_A001_X87d_Xa08.CIT_6_sci.spw29.mfs.I.pb.fits 2.57 MB
 - member.uid__A001_X87d_Xa0a

- Open the fits file in the Viewer

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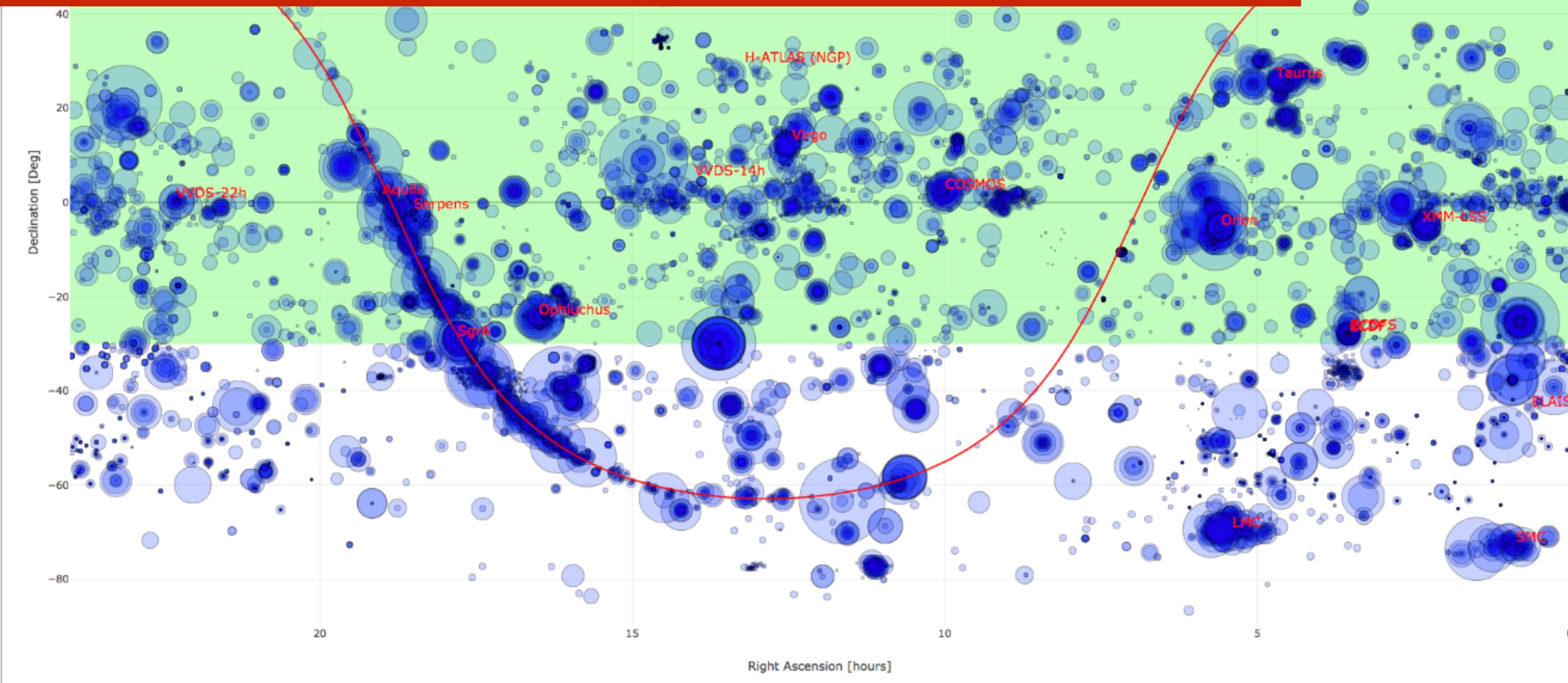
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[Upload file](#)

See the result below

RA	DEC	RADIUS	REDSHIFT	FITS FILE	NUMBER OF FITS	SPECIES
13:37:00.9	-29:51:56	0.0144	file access	282	C3H+, HCC-13-CN-15, HC-13-N, Si-29-O, Si-30-O, SiO-17, SiO-18, LiOH, C2H-, HB-10-O, HCN, HBO, DNC, HNC-13, HCN-15, HC-13-N-15, DCN-15, DC-13-N, HOC+, HCO+, N2H+, DC-13-N-15, DCO+, HCO-17+, HC-13-O+, DOC+, DN2+, N-15-NH+, DC-13-O+, HCO-18+, N-15-ND+, N-15-N-15-H+, LiCCH, DCO-18+, N-15-N-15-D+, NaC, NaF, HCNO, HC15N-15-O, DCNO, HC-13-NO, SiO, PN, PN-15, Si-29-O-17, Si-30-O-17, Si-29-O-18, NaCCH, Si-30-O-18, C4H-, C4D-, HCCCN, HNC3, HMgNC, HCCC-13-N, HCC-13-CN, HCCCN-15, DCCCN, HC-13-C-CN, AICN, AINC, NCCNH+, HC-13-C-13-CN, HC-13-CC-13-N, HCC-13-C-13-N, DCCC-13-N, DCC-13-CN, NCC-13-NH+, NC-13-CN+, NCCND+, NaS, CaO, NaSH, NaCl, KF, K-41-OH, HCNS, NaCl-37, ScO, KCCH, Cr-52-C, NCNSI, KS, CaS, KCl-35, Ni-58-O, K-41-Cl, KCl-37, Ti-46-S, Ti-48-S, Ti-50-S	
05:34:32.0	+22:00:52	10	file access	16		
05:35:14.16	-05:22:21.5	5	file access	394		

CSV file example

RA, DEC, RADIUS, REDSHIFT
13:37:00.9, -29:51:56, 0.0144
05:34:32.0, +22:00:52, 10
05:35:14.16, -05:22:21.5, 5

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- Will return the list of FITS available and the possibly observed species (in dev)

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See the result below

RA	DEC	RADIUS	REDSHIFT	FITS FILE	NUMBER OF FITS	SPECIES
13:37:00.9	-29:51:56	0.0144	file access	282	C3H+, HCC-13-CN-15, HC-13-N, Si-29-O, Si-30-O, SiO-17, SiO-18, LiOH, C2H-, HB-10-O, HCN, HBO, DNC, HNC-13, HCN-15, HC-13-N-15, DCN-15, DC-13-N, HOC+, HCO+, N2H+, DC-13-N-15, DCO+, HCO-17+, HC-13-O+, DOC+, DN2+, N-15-NH+, DC-13-O+, HCO-18+, N-15-ND+, N-15-N-15-H+, LiCCH, DCO-18+, N-15-N-15-D+, NaC, NaF, HCNO, HC15N-15-O, DCNO, HC-13-NO, SiO, PN, PN-15, Si-29-O-17, Si-30-O-17, Si-29-O-18, NaCCH, Si-30-O-18, C4H-, C4D-, HCCCN, HNC3, HMgNC, HCCC-13-N, HCC-13-CN, HCCCN-15, DCCCN, HC-13-C-CN, AICN, AINC, NCCNH+, HC-13-C-13-CN, HC-13-CC-13-N, HCC-13-C-13-N, DCCC-13-N, DCC-13-CN, NCC-13-NH+, NC-13-CN+, NCCND+, NaS, CaO, NaSH, NaCl, KF, K-41-OH, HCNS, NaCl-37, ScO, KCCH, Cr-52-C, NCNSI, KS, CaS, KCl-35, Ni-58-O, K-41-Cl, KCl-37, Ti-46-S, Ti-48-S, Ti-50-S	
05:34:32.0	+22:00:52	10	file access	16		
05:35:14.16	-05:22:21.5	5	file access	394		

- Link to the table of FITS files for visualisation