



## ASP - Archive Science Portal V2.0 - Main features

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The full list of improvement present in Version 2.0 has been announced to the scientific community [here](#).

Following users feedback, the updated Archive Science Portal provides (among others) the following improvements:

- **A single interface allows users to access data from La Silla Paranal, APEX ,and -now- from ALMA as well:**

The screenshot displays the ASP interface. On the left, there are several filter panels: Observatory (ALMA), Data Type (CUBE), Spectral Range (mm), Filter/Band (Band 3, Band 8), Spectral Resolution (1000, 100, 100k, 100k), and Signal-to-Noise Ratio. The main area shows a galaxy image with yellow outlines representing the ALMA footprint. Below the image is a table with columns: Actions, Data Type, Spec. Range, Filtr., Spec. Res., Sens. (AB mag), Obs. Date, FWHM, Collection, Instrum., and T. Exp. T.

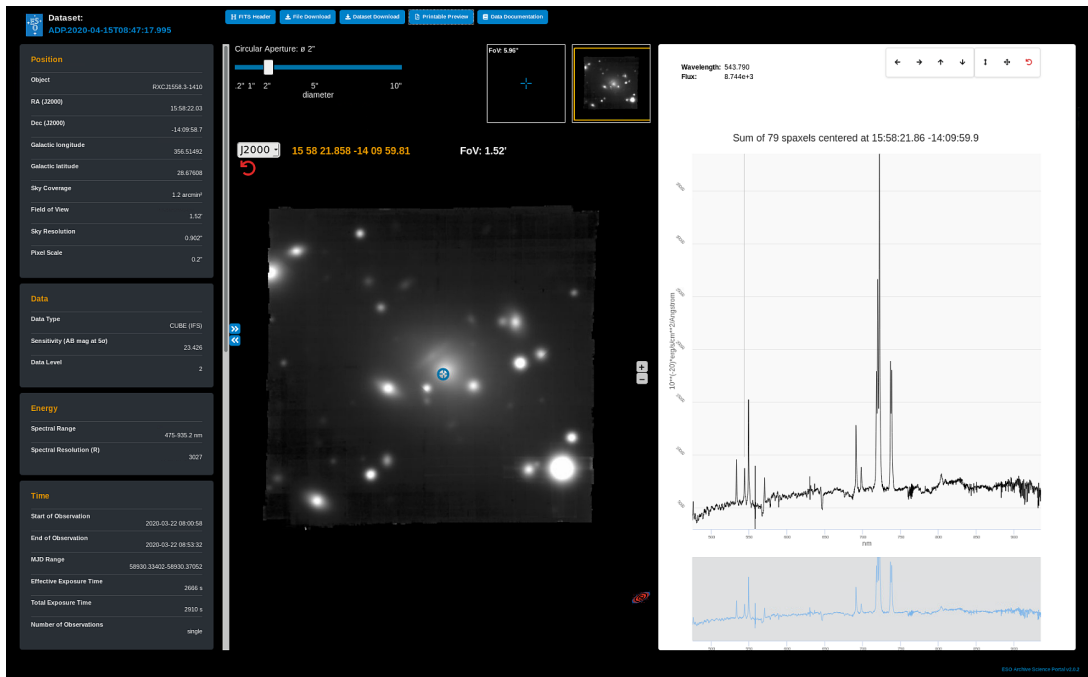
Actions	Data Type	Spec. Range	Filtr.	Spec. Res.	Sens. (AB mag)	Obs. Date	FWHM	Collection	Instrum.	T. Exp. T.
<input type="checkbox"/>	CUBE	3054-3068 µm	Band 3	100334	19.24025519238355	2016-07-19 08:37:36	56.2"	ALMA	ALMA	6804 s
<input type="checkbox"/>	CUBE	3093-3108 µm	Band 3	99265	19.24025519238355	201.1207-19 08:37:36	56.2"	ALMA	ALMA	6804 s
<input type="checkbox"/>	CUBE	3006-3023 µm	Band 3	102124	19.24025519238355	2016-07-19 08:37:36	56.2"	ALMA	ALMA	6804 s
<input type="checkbox"/>	CUBE	2736-2758 µm	Band 3	112614	19.24025519238355	2016-07-19 08:37:36	56.2"	ALMA	ALMA	6804 s
<input type="checkbox"/>	CUBE	2750-2793 µm	Band 3	112614	19.24025519238355	2016-07-19 08:37:36	56.2"	ALMA	ALMA	6804 s
<input type="checkbox"/>	CUBE	3423-3444 µm	Band 3	89638	18.8016314456020375	2016-07-24 04:41:07	1.00"	ALMA	ALMA	1230 s
<input type="checkbox"/>	CUBE	3366-3402 µm	Band 3	91204	18.8016314456020375	2016-07-24 04:41:07	1.00"	ALMA	ALMA	1230 s
<input type="checkbox"/>	CUBE	3299-3317 µm	Band 3	93044	18.8016314456020375	2016-07-24 04:41:07	1.00"	ALMA	ALMA	1230 s
<input type="checkbox"/>	CUBE	3345-3380 µm	Band 3	91716	18.8016314456020375	2016-07-24 04:41:07	1.00"	ALMA	ALMA	1230 s

See for instance [here](#) the ALMA footprint over the WHALE galaxy.

These ALMA data can be retrieved also with this [programmatic query](#):

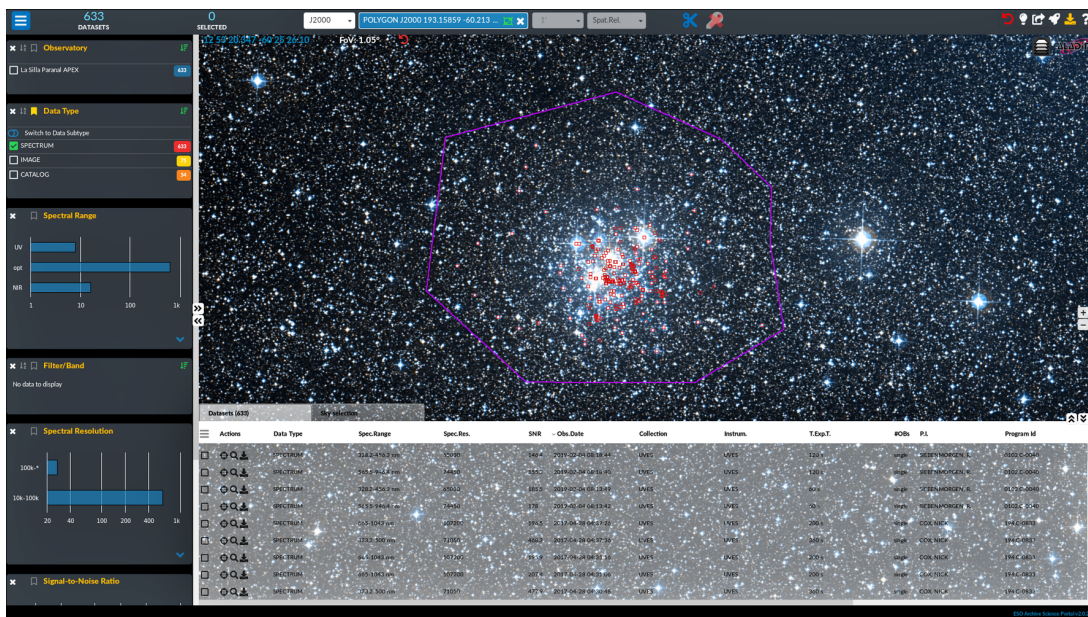
```
SELECT
    s_ra, s_dec, dp_id, instrument_name, obstech, proposal_id,
    obs_release_date
FROM
    ivoa.obsCore
WHERE
    intersects(s_region, circle('', 3.72333, -39.19667, 0.3))=1 AND
    instrument_name='ALMA'
```

- We now provide previews for datacubes, including interactive spectrum extraction:



Users can now extract a quick look MUSE spectrum directly from the [Archive Interface](#).

- Search within user defined polygons:



For instance an user can [download all the spectra of the stars in the Jewel Box cluster](#) within a customized region. Naturally this is possible also [programmatically](#):

```
SELECT
    s_ra, s_dec, dp_id, instrument_name, obstech, proposal_id,
    obs_release_date
FROM
```

ivoa.ObsCore

WHERE

```
intersects(s_region, POLYGON( 'J2000', 193.15859, -60.21354,
193.40507, -60.15885, 193.80660, -60.21094, 193.85447, -60.38943,
193.61956, -60.49661, 193.21774, -60.49711, 193.00831, -60.43487,
193.04188, -60.33450, 193.03932, -60.26952) )=1 AND obstech NOT LIKE
'IMAGE%'
```

Tags

Archive

Data Access

reduced data