

Getting Wallaby images from CANFAR:

Step 1: Go to site: <https://www.cadc-ccda.hia-ihp.nrc-cnrc.gc.ca/en/search/>

The screenshot shows the Canadian Astronomy Data Centre search interface. The header includes the site name and a navigation menu. The main search area has a search bar and a 'Search' button. Below the search bar are four panels for constraints: Observation Constraints, Spatial Constraints, Temporal Constraints, and Spectral Constraints. Each panel has a list of options with expand/collapse icons. At the bottom, there is an 'Additional Constraints' section with seven dropdown menus: Band, Collection, Instrument, Filter, Cal. Lev., Data Type, and Obs. Type. The 'Collection' dropdown is currently open, showing a list of collections including WALLABY.

There are many ways to get the data.

Step 2: You can use the panel at the bottom and choose Wallaby from the options in 'Collection'. You could choose Radio the options in 'Band'. That filters what is available. Then click search from the button at the bottom. You fine tune your search by choosing Spatial, Temporal or Spectral constraints.

This screenshot shows the same search interface as the previous one, but with filters applied. In the 'Additional Constraints' section, the 'Band' dropdown is set to 'Radio' and the 'Collection' dropdown is set to 'WALLABY'. The 'Instrument' dropdown is set to 'ASKAP', 'Filter' to 'L-band', 'Cal. Lev.' to '(2) Calibrated', 'Data Type' to 'cube', and 'Obs. Type' to 'OBJECT'. The 'Search' button is visible at the bottom left. The footer contains links for 'About us', 'News', and 'Contact us', along with a date modified: 2022-07-07.

The results are:

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Search Results Error ADQL Help

Download complete query results: VOTable CSV TSV

Download Showing 835 rows (835 before filtering) Change Columns View in sky

Mark	Preview	Collection	Obs. ID	Product ID	RA (J2000.0)	Dec. (J2000.0)	*Start Date	Instrument	Int. Time	Target Name	Filter	Cal. Lev.	Obs. Type
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100321-291708	source_data_Hydra_TR2	10:03:21.06	-29:17:12.1		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100336-262923	source_data_Hydra_TR2	10:03:37.67	-26:29:25.0		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100342-270137	kinematic_model_Hydra_TR2	10:03:42.56	-27:01:18.3		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100342-270137	source_data_Hydra_TR2	10:03:42.56	-27:01:18.3		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100351-263707	source_data_Hydra_TR2	10:03:52.47	-26:37:42.0		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100351-273417	kinematic_model_Hydra_TR2	10:03:52.02	-27:34:39.9		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100351-273417	source_data_Hydra_TR2	10:03:52.02	-27:34:39.9		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100426-282638	kinematic_model_Hydra_TR2	10:04:25.66	-28:26:21.4		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100426-282638	source_data_Hydra_TR2	10:04:25.66	-28:26:21.4		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100539-282633	kinematic_model_Hydra_TR2	10:05:38.68	-28:27:09.2		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100539-282633	source_data_Hydra_TR2	10:05:38.68	-28:27:09.2		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100555-291840	source_data_Hydra_TR2	10:05:55.66	-29:18:42.4		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100634-295615	source_data_Hydra_TR2	10:06:33.32	-29:56:12.0		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100640-273917	source_data_Hydra_TR2	10:06:39.00	-27:39:20.9		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100656-251731	source_data_Hydra_TR2	10:06:57.05	-25:17:19.2		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100700-273944	source_data_Hydra_TR2	10:07:00.89	-27:39:47.1		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100707-262300	source_data_Hydra_TR2	10:07:07.53	-26:22:59.8		ASKAP		WALLABY J100 L-band		2	OBJECT
<input type="checkbox"/>	<a href="#">Preview</a>	WALLABY	WALLABY_J100713-262336	source_data_Hydra_TR2	10:07:13.97	-26:23:31.3		ASKAP		WALLABY J100 L-band		2	OBJECT

Date modified: 2022-07-07

Step 3: If you know the Observation ID, then click on 'Observation ID' in 'Observation Constraints' panel at top left. Click on Search at top left. The constraints can be used here as well.

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Search Results Error ADQL Help

Search Reset

Click on ⓘ for explanations

**Observation Constraints**

Observation ID (WALLABY\_J100...)

WALLABY\_J100342-270137 ⓘ

P.I. Name ⓘ

Proposal ID ⓘ

Proposal Title ⓘ

Proposal Keywords ⓘ

Data Release Date ⓘ

Science and Calibration data ⓘ

**Spatial Constraints**

Target ⓘ

Pixel Scale ⓘ

☐ Do Spatial Cutout ⓘ

**Temporal Constraints**

Observation Date ⓘ

Integration Time ⓘ

Time Span ⓘ

**Spectral Constraints**

Spectral Coverage ⓘ

Spectral Sampling ⓘ

Resolving Power ⓘ

Bandpass Width ⓘ

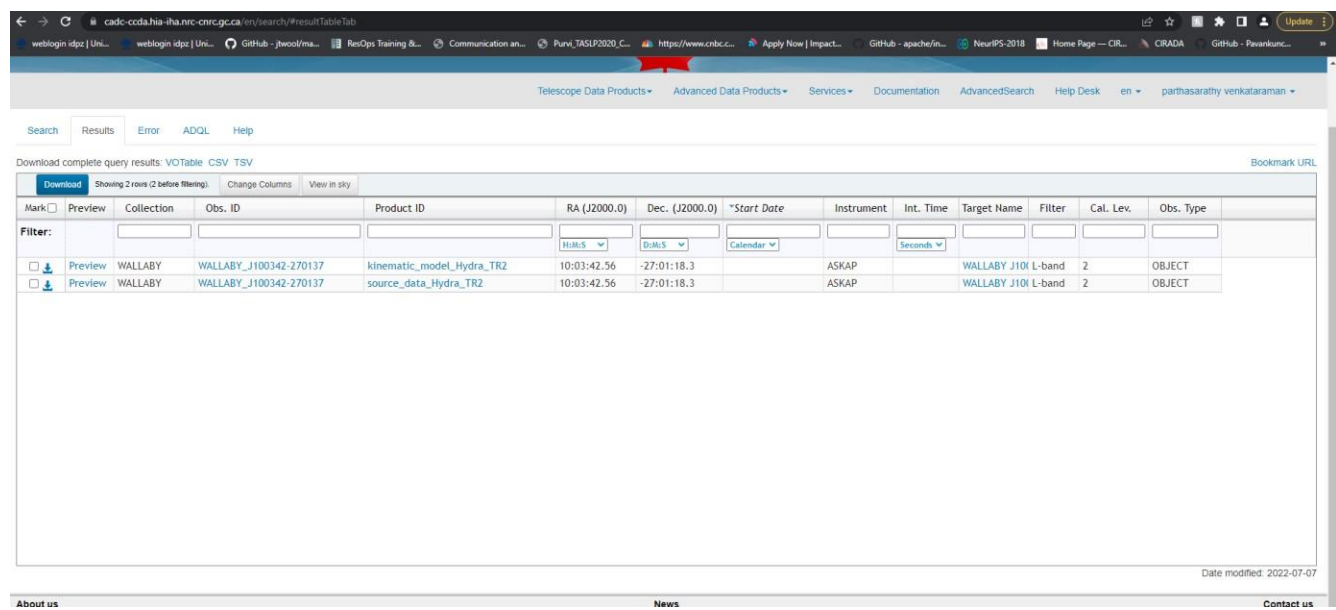
Rest-frame Energy ⓘ

☐ Do Spectral Cutout ⓘ

Additional Constraints

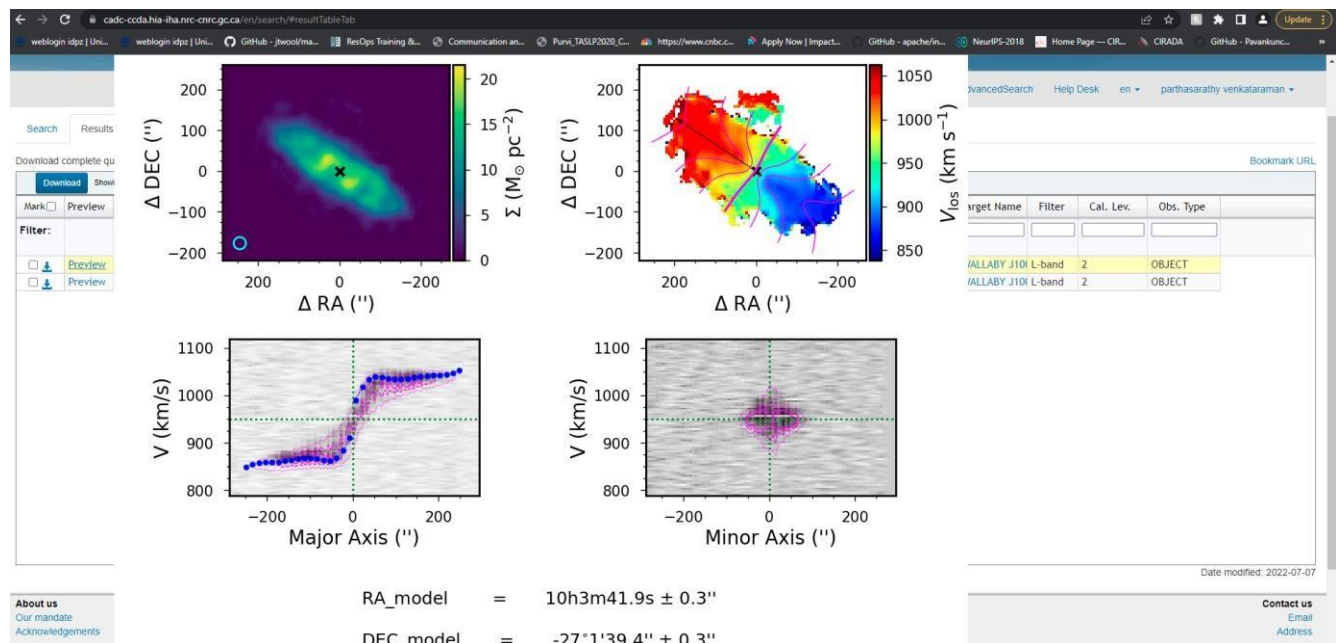
Band ⓘ	Collection ⓘ	Instrument ⓘ	Filter ⓘ	Cal. Lev. ⓘ	Data Type ⓘ	Obs. Type ⓘ
All (13)	GEMINI	All (242)	All (4391)	All (7)	All (9)	All (99)
Infrared	GEMINICADC	90prime	-1.800	(4) Analysis Product	cube	ACQUIRE
InfraredOptical	JCMT	ACIS-I	-1.900	(3) Product	eventlist	ACQUISITION
InfraredOpticalUV	DAO	ACIS-S	-35.000	(2) Calibrated	catalog	ALIGN
InfraredOpticalUV-EUVX-rayGamma	DAOCADC	ACS/SBC	0	(1) Raw Standard	image	ARC
Millimeter	DAOPLATON	ACS/WFC	0.35uB	(0) Raw Instrumental	measurements	ASTAR
MillimeterInfrared	---	ALMA/ALMA-S	0.35uB	(0) Instrumental	other	RAIR

The results are:



A few helpful notes.

Once you have the results. You can download the data by clicking on the download icon at extreme left. You can click on the preview to view the image. The preview shows 2 images, the whole image on left and a zoomed out image on the right.



If you click on a row in Obs. Id column in the results page, you get a page as follows showing the data in planes, artifacts etc.

← → cadc-coda.hia-thu.nrc-cnrc.gc.ca/caom2ui/view?ID=ivo%3A%2F%2F-cadc.nrc.ca%2FWALLABY%3FWALLABY\_1100342-270137 weblogin dpz | Uni... weblogin dpz | Uni... GitHub - jtwoc/ma... ResOps Training &... Communication an... Puri,TASLP2020\_C... https://www.cibc... Apply Now | Impact... GitHub - apache/in... NeurIPS-2018 Home Page — CIR... CIRADA GitHub - Pavankunc...

Common Archive Observation Model (CAOM2)

SimpleObservation

ID	3afe05d3-f0f2-4a5d-ab64-7123c6acf417 aka -0096623597081791465
collection	WALLABY
observationID	WALLABY_1100342-270137
metaRelease	2023-01-01 00:00:00.000
metaReadGroups	ivo://cadc.nrc.ca/gms?CADC ivo://cadc.nrc.ca/gms?WALLABY-RW
sequenceNumber	
type	OBJECT
intent	science
members	
algorithm	name: exposure
telescope	
instrument	name: ASKAP
environment	keywords:
proposal	ID: WALLABY_1100342-270137_hydra_Kin_TR2_ProcData.fits project: WALLABY PI: null title: WALLABY keywords:
target	name: WALLABY_1100342-270137 type: redshift: null standard: null moving: null keywords: targetID:
targetPosition	
requirements	
lastModified	Tue May 24 00:43:43 UTC 2022
nextModified	Tue May 24 00:43:43 UTC 2022
metaChecksum	md5:b403051d66a4b413ea56587d6da2d2d5
acclMetaChecksum	md5:dfceff593e4fb9cce3fd6116552db91a
metaProducer	null

Plane

ID	061b97ca-1803-451d-8579-b0c75afb8ec8 aka -8828831224211730744
productID	kinematic_model_hydra_TR2
creatorID	null
metaRelease	2023-01-01 00:00:00.000
metaReadGroups	ivo://cadc.nrc.ca/gms?CADC ivo://cadc.nrc.ca/gms?WALLABY-RW
dataRelease	2023-01-01 00:00:00.000
dataReadGroups	ivo://cadc.nrc.ca/gms?CADC ivo://cadc.nrc.ca/gms?WALLABY-RW
dataProductType	cube
calibrationLevel	2 (CALIBRATED)
observable	
quality	