Finding Associated Data Products

On this page...

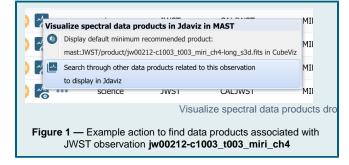
- Viewing Related Data Products
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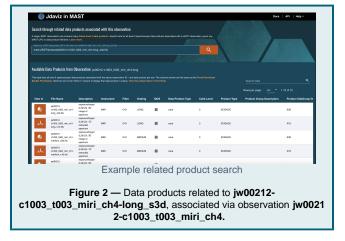
Viewing Related Data Products

There may be more than one available data product associated with an observation. This page will give a quick guide to searching for related "scienceready" (fully calibrated and processed) data products. For information about associated, uncalibrated, auxiliary data, see the Supplemental Products page.

Navigation from the Portal

Clicking on the "Search through other data products" action from the **Visualize Spectra (Jda)** dropdown (**Figure 1**) will bring you to a new page displaying all other level 3 spectroscopic data products associated with the selected Portal observation. An example of what this page will look like can be found in **Figure 2**.

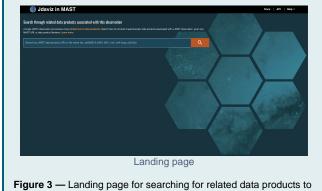


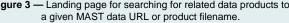


Navigation By Direct URL

You can navigate to this page manually by going to https://mast.stsci.edu /viz/jwst/, where you'll see **Figure 3**. If you already know the MAST data URI of the product you wish to search for, you can also navigate there directly using the syntax "https://mast.stsci.edu/viz/jwst/?uri= [MAST_DATA_URI]", e.g. https://mast.stsci.edu/viz/jwst/?uri=jw01039-0005_t001_miri_ch3-shortlongmedium-.

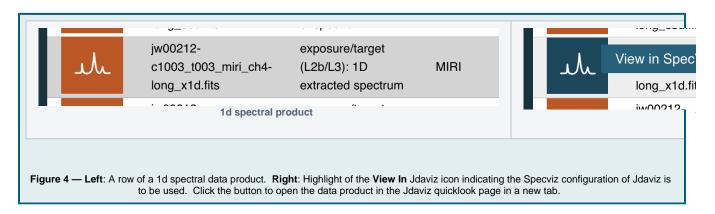
Displayed on the page is a Search bar where you can input a MAST data URI or Product Filename to search on. For example, inputing the URI mast:JWST/product/jw00212-c1003_t003_miri_ch4-long_s3d. fits or product filename jw00212-c1003_t003_miri_ch4-long_s3d.fits will perform a search and return the results in Figure 2.





The Data Product Table

The table displayed in **Figure 2** shows all data products associated with the observation for the URI or product you searched on. Each row contains some basic metadata information about the data product, such as **Description**, **Filter**, **Grating**, **Calibration Level**, etc. The information shown is a subset of the information displayed in the Portal Download Basket File Details. The table also contains a **View In** column, containing a button icon indicating which Jdaviz helper configuration is used to load the data product in a given row. See Icon Nomenclature for their meanings. **Figure 4** sho ws an example of a Specviz data product. Clicking any of the icons displayed in the **View In** column will lead you to the Jdaviz quick look page. See V iewing Spectra and Images for more.



Viewing Multi-Object Spectra (MOS)

Some JWST observations of multi-object spectra produced by the NIRSPEC instrument have associated 2d and 1d spectral data products. You can view these products together using Jdaviz's **Specviz2d** configuration. **Figure 5** shows an example search for related data products to NIRSPEC observation **jw00643-c1007_s00021_nirspec_f170lp-g235m**. The **MOS** table column indicates via a checkmark whether the product is a NIRSPEC Multi-Object Spectrum.

	Jdaviz in MAST									Docs API	Help ∨
Search thr	ough related data products	associated wit	n this observati	on							
	observation can produce many linked data product filename. Learn more.	l level 3 data produc	ts. Search here for a	I level 3 spectr	oscopic data pro	ducts associat	ted with a JWST observation, g	jiven any			
	ST data product URI or file name (ex: jw0006)		ong_s2d.fits)				468536				
mast:JWST	7/product/jw00643-c1007_s00021	_nirspec_f170lp-g2	235m_s2d.fits					۹			
							AL-SUSSE				
AVAIIADIE L	Data Products from Observa	СІОП: jw00643-c1	1007_s00021_nir	spec_f170l	p-g235m						
	all level 3 spectroscopic data products						wn are the same as the Portal	Download	Se	arch table	с
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Basket File De View in	statis. Click the icon in the "View in" co File Name	Description	Instrument	Filter	Grating	MOS	Data Product Type	Calib Level	Rc Product Type	ws per page: 500 ▼ 1-2 of 4 Product Group Description	
View in	File Name jw00643-	Description exposure(L2c): 2D image of	Instrument	Filter	Grating				Product Type	Product Group Description	Product S
	File Name	Description exposure(L2c):					Data Product Type	Calib Level			Product S
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View in	File Name jw00643- c1007_s00021_nirspec_f170lp- g235m_s2d.fits jw00643- c1007_s00021_nirspec_f170lp-	Description exposure(L2c): 2D image of spectrum avg integrations exposure(L2c): 1D extracted	Instrument	Filter F170LP	Grating G235M		cube	3	Product Type SCIENCE SCIENCE	Product Group Description Minimum Recommended Products	Product S
View in	File Name jw00643- c1007_s00021_nirspec_f170lp- g235m_s2d.fits jw00643- c1007_s00021_nirspec_f170lp-	Description exposure(L2c): 2D image of spectrum avg integrations exposure(L2c): 1D extracted	Instrument	Filter F170LP	Grating G235M		cube	3	Product Type SCIENCE SCIENCE	Product Group Description Minimum Recommended Products Minimum Recommended Products	Product S
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Figure 6 Left shows a zoom-in of the related s2d and x1d spectral data products in the first two rows, with their respective Specviz2d and Specviz icons. Clicking the **Specviz2d** button (middle) brings up a pop-window (right) displaying two user options for loading the data:

- Option 1: View only this file loads only the 2d spectral data product into Specviz2d. A simplified 1d spectral extraction is performed and loaded into the Specviz2d 1d spectrum viewer.
- Option 2: View this file with its paired x1d file loads both the 2d and 1d spectral data products into Specviz2d.

In the example shown in **Figure 6**, clicking **View only this File** loads the data product from the first row, while clicking **View this file with its paired x1d file** loads both data products. Clicking either option will lead you to the Jdaviz quick look page. See <u>Viewing Spectra and Images</u> for more details.

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	g235m_s2d.fits	,_)(L	g235m_s2d.fits
علد	jw00643- c1003_s00001_nirspec_f170lp- g235m_x1d.fits	سالد	jw00643- c1003_s00001_nirspec_f170lp- g235m_x1d.fits
Related	2d and 1d spectral data products		The View In option

For Further Reading...

- NIRSpec MOS and NIRSpec Fixed Slit (JDox)
 Minimum Recommended Products