



ESA JWST update

JWST Users Committee

September 18, 2023

Chris Evans

ESA JWST Proj. Scientist & Head of ESA Office @STScI



Credit: ESA/Webb, NASA, CSA, M. Barlow (UCL), N. Cox (ACRI-ST), R. Wesson (Cardiff)

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ESA Office at STScI



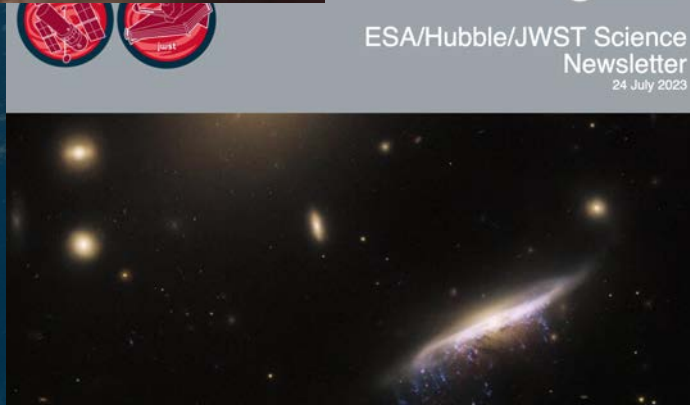
The ESA Office at STScI includes:

- ESA staff at STScI assigned to HST & JWST (& future ESA-NASA missions operated @STScI)
- ESA/AURA personnel and admins contracted for ESA through AURA
- ESA Research Fellows (call currently open for 2024 cohort, deadline Sept. 18)
- ESA Office Leadership:
 - Chris Evans (HST & JWST Proj. Scientist) & Paule Sonnentrucker (HST & JWST Mission Manager)
- Leads the JWST and HST outreach in Europe

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Community Engagement: Science Newsletters



sci23002 — Announcement

Reflections from the JWST Users Committee

2 May 2023



-Stephane Charlot (Institut d'astrophysique de Paris)-

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Community Engagement: EAS Meeting 2023

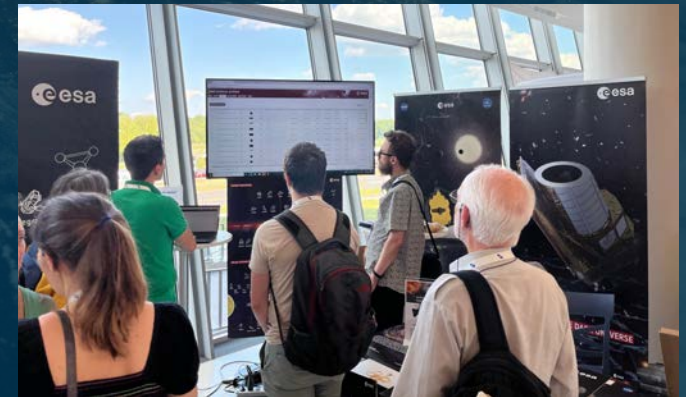


EUROPEAN ASTRONOMICAL SOCIETY ANNUAL MEETING

JULY 10TH – 14TH, 2023
ICE KRAKÓW, POLAND



- Lunch sessions: JWST community session; ESA archives (incl. eJWST)
- JWST science sessions on active galaxies, galaxy assembly, gravitational lensing, protostars/planets
- Anniversary image released on July 12
Lots of excitement & engagement (incl. media)



JWST Public Engagement

<https://esawebb.org>



The ESA Office at STScI leads the HST and JWST outreach in Europe

- Activities and material planned in close coordination with STScI's OPO and NASA
- Range of social media to amplify releases and engage the public
- Working with ESA Comms to highlight connections to other ESA missions

Picture of the Month

Subscribe to receive news from ESAWebb!



potm2308 — Picture of the Month
A FEAST For The Eyes

29 August 2023
The graceful winding arms of the grand-design spiral galaxy M51 stretch across this image from the NASA/ESA/CSA James Webb Space Telescope. Unlike the menagerie of weird and wonderful spiral galaxies...

Read more



potm2307 — Picture of the Month
The Life And Times Of Dust

31 July 2023
This image shows the irregular galaxy NGC 6822, which was observed by the Near-Infrared Camera (NIRCam) and Mid-Infrared Instrument (MIRI) mounted on the NASA/ESA/CSA James Webb Space Telescope. As th...

Read more



potm2306 — Picture of the Month
Clash Of The Titans

3 July 2023
The peculiar galaxy NGC 3256 dominates this image from the NASA/ESA/CSA James Webb Space Telescope. This Milky Way-sized galaxy lies about 120 million light-years away in the constellation Vela...

Read more



<https://esawebb.org/videos/weic2316b/>

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August's Picture of the Month: M51 MIRI + NIRCam from FEAST program (PI: A. Adamo, Stockholm)

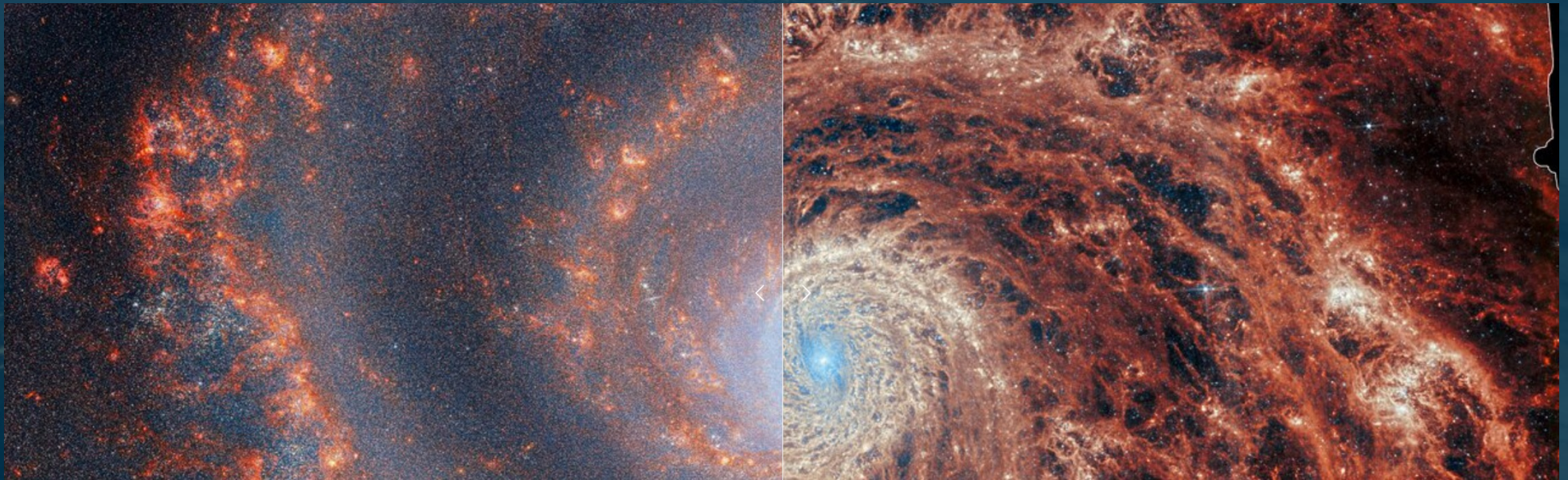


Credit: ESA/Webb, NASA & CSA, A. Adamo (Stockholm) & the FEAST JWST team

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August's Picture of the Month: M51 MIRI & NIRCam from FEAST program (PI: A. Adamo, Stockholm)



Credit: ESA/Webb, NASA & CSA, A. Adamo (Stockholm) & the FEAST JWST team

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jwtst science archive

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WELCOME TO THE ESA JWST SCIENCE ARCHIVE

The James Webb Space Telescope (JWST) is the largest optical or infrared observatory ever launched to space. Developed in a collaboration between NASA, ESA, and CSA, Webb observes the Universe in infrared light from its orbit at the Lagrangian point L2, 1.5 million km away from Earth.

The ESA JWST archive user interface allows users to perform simple and advanced searches based on multiple observation parameters such as coordinates, target name, proposal Id, etc., quick explorations of the data products and metadata including use of ESASky, and searches based on ADQL and the astroquery language.

Quick search by target name or coordinates [J2000] Search by Proposal Id

[Click on labels for help.](#)

M31, 5 34 31.45 +22 01 02.40, 83.63104 +22.01733, ...

JWST LATEST NEWS

Put a ring on it

Webb has observed the Ring Nebula with unprecedented detail. The images show the intricate details of the filament structure of the inner ring, and the particular details in the concentric features in the outer regions.

[2 weeks ago - JWST Archive Latest News](#)

<https://jwst.esac.esa.int/archive/>

ESA/JWST Archive & ESA Sky



J2000 16 27 44.596 -24 14 26.99 FoV: 36' X 20' 2MASS color JHK

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Search...

Image Observations

Gamma-ray Optical Radio

	Go to	Archive	Download	Preview	Observation ID	Target name	RA (J2000)	Dec (J2000)	Instrument	Observing Mode	Proposal Id	Calibration Level	Start Time	Duration (s)	Filter
<input type="checkbox"/>					filter column...	filter column...			filter column...	filter column...	filter column...				
<input type="checkbox"/>					ju02739009006_02101_00004_nrca4	OPH-CORE	16h 26m 30.563s	-24° 23' 04.16"	NIRCAM/IMAGE	NRC_IMAGE	2739	2	2023-03-08 02:53:29.97	236.209	F187N
<input type="checkbox"/>					ju02739013001_02101_00002_nrca2	OPH-CORE-Tile-2	16h 26m 22.559s	-24° 21' 45.78"	NIRCAM/IMAGE	NRC_IMAGE	2739	2	2023-04-06 10:17:26.41	236.209	F187N
<input type="checkbox"/>					ju02739009003_02105_00001_nrca3	OPH-CORE	16h 26m 30.563s	-24° 23' 04.16"	NIRCAM/IMAGE	NRC_IMAGE	2739	2	2023-03-07 23:57:26.3	118.104	F200W
<input type="checkbox"/>					ju02739013001_02101_00005_nrcb2	OPH-CORE-Tile-2	16h 26m 22.559s	-24° 21' 45.78"	NIRCAM/IMAGE	NRC_IMAGE	2739	2	2023-04-06 10:33:54.0	236.209	F187N
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ESA/JWST Archive & ESA Sky



J2000 16 26 50.652 -24 24 35.39 FoV: 24' X 13' ZMASS color JHK

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ESA/Webb Outreach Images Hide Footprints

Object Name	Title
filter column...	filter column...
Outside Field of View (89 Images)	
In Field of View (1 Images)	
Rho Ophiuchi cloud complex	

Rows: 90

Rho Ophiuchi cloud complex

The first anniversary image from the NASA/ESA/CSA James Webb Space Telescope displays star birth like it's never been seen before, full of detailed, impressionistic texture. The subject is the Rho Ophiuchi cloud complex, the closest star-forming region to Earth. It is a relatively small, quiet stellar nursery, but you'd never know it from Webb's chaotic close-up. Jets bursting from young stars crisscross the image, impacting the surrounding interstellar gas and lighting up molecular hydrogen, sh...

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Rho Ophiuchi cloud complex

About the Object

Distance: 390 light years

Constellation: Ophiuchus

Category: Stars

Coordinates

Position (RA): 16 26 30.55

Position (Dec): -24° 23' 7.40"

Field of view: 6.65 x 6.23 arcminutes

Orientation: North is 80.8° left of vertical

View in ESASky:

View in WorldWide Telescope:



Sci. Mode En Feedback

Search...

Rho Ophiuchi cloud complex

The first anniversary image from the NASA/ESA/CSA James Webb Space Telescope displays star birth like it's never been seen before, full of detailed, impressionistic texture. The subject is the Rho Ophiuchi cloud complex, the closest star-forming region to Earth. It is a relatively small, quiet stellar nursery, but you'd never know it from Webb's chaotic close-up. Jets bursting from young stars crisscross the image, impacting the surrounding interstellar gas and lighting up molecular hydrogen, sh...

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ESA/JWST Data Masterclass: Dec 12-14



jwst data masterclass 2023



[Home](#) [Timeline](#) [Registration](#) [Local information](#)

JWST DATA MASTERCLASS: 12-14 DECEMBER 2023

The JWST Masterclass is primarily intended for researchers from across the ESA Member States who have yet to work with JWST data or have had limited experience so far, and want to build their expertise and confidence. The aims are: to provide a solid foundation in the basics of the calibration pipeline, to walk participants through examples of science-case-driven data from several of JWST's observing modes, and to illustrate specific workarounds that can be used to optimise the outcome of particular datasets. Our goal is that participants will be better prepared to embark on analysis of data from Cycles 1 (or coming soon in Cycle 2), and ready for science exploitation of new data in future cycles, while also becoming European ambassadors for best practices of science exploitation from JWST.



Being held at ESA's European Space Astronomy Centre (ESAC):

Main topics:

- Pipeline & archives
- Imaging data
- Time-series
- Slit & IFU spectroscopy

Registrations closed on Aug 31

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