ESA Update

Chris Evans – ESA HST Project Scientist

Space Telescope Users Committee: May 9, 2023
Multi-mission partnership with STScI

HST
- Over three decades of successful collaboration on Hubble
- ESA Science Programme Committee approved extension to 2026 (indicative to 2029)
- 13 ESA-funded personnel supporting all aspects of Hubble science operations at STScI

JWST
- ESA transition to science operations, handover of European contributions and responsibilities (Oct 2022)
- 15 ESA-funded personnel supporting Webb science operations 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
- Recruitment underway for ESA/AURA positions (deadline May 10)
The ESA Office 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

heic2301 — Science Release
For The First Time Hubble Directly Measures The Mass of a Lone White Dwarf
2 February 2023
Outreach in Europe – Hubble & Webb

Hubble’s 33rd launch anniversary celebrated shortly after ESA JUICE launch

- Released a new ESA/Hubble ‘Space Sparks’ highlighting Hubble’s studies of Jupiter

Hubble is used to observe the planet as it orbits and to create a global map of the winds, storms and colours on its surface. These will make it possible to track the subtle changes in the planet’s features over the years to come.
Long-running Picture of the Week series

- Reprocessed images from the archives
- Recent mini-series of ‘Jellyfish’ galaxies

Credits: ESA/Hubble & NASA, M. Gullieuszik and the GASP team

Galaxies from Gullieuszik et al. (2023) & Giunchi et al. (2023)
All outreach images included and easily accessible in ESASky

Coordinates
- Position (RA): 23 36 26.56
- Position (Dec): 21° 8' 43.50''
- Field of view: 3.70 x 2.36 arcminutes
- Orientation: North is 65.5° right of vertical

View in ESASky:

ESASky

Portrait of a galactic jellyfish

The galaxy JX150 features prominently in this image from the NASA/ESA Hubble Space Telescope, with streams of star-forming gas streaming from the disc of the galaxy like streaks of fresh paint. These regions of bright gas are formed by a process called ram pressure stripping, and their resemblance to dripping terracotta has led astronomers to refer to JX150 as a 'jellyfish' galaxy. It is located in the constellation Pegasus, over 800 million light-years away. Ram pressure stripping occurs when...
Community Engagement: Science Newsletters

Recent topics:

- General news & updates
- Retrospective of 2022 science highlights
- Release of 2023 Hubble & Webb Calendar
- Announcement of new eHST archive
- Plans for 2023 EAS meeting (Poland, July)
- Reflections from outgoing JSTUC member
New version of eHST science archive:
- New user interface & query tools to optimise searches
- Seamless integration with ESASky (ESA’s multi-mission visualisation interface)
- New viewer for quick-look inspection of FITS images
- Access to observing proposals and DOIs of publications from each programme
- Enhanced filtering of metadata and data products