

ESASky, simplifying the access to space astronomical data for all

Debbie Baines

ESAC Science Data Centre (ESDC) Scientist

On behalf of Bruno Merín, Fabrizio Giordano, Elena Racero, Henrik Norman, Belén López Martí, Jesús Salgado, Sara Alberola, Christophe Arviset & Guido de Marchi in the ESDC team.

#scidata17, 25th Oct 2017

Goal: to facilitate data discovery and archival science for ALL users

- Multi-wavelength
- Project agnostic
- Exploration



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Interface “on top of” all ESA astronomy archives

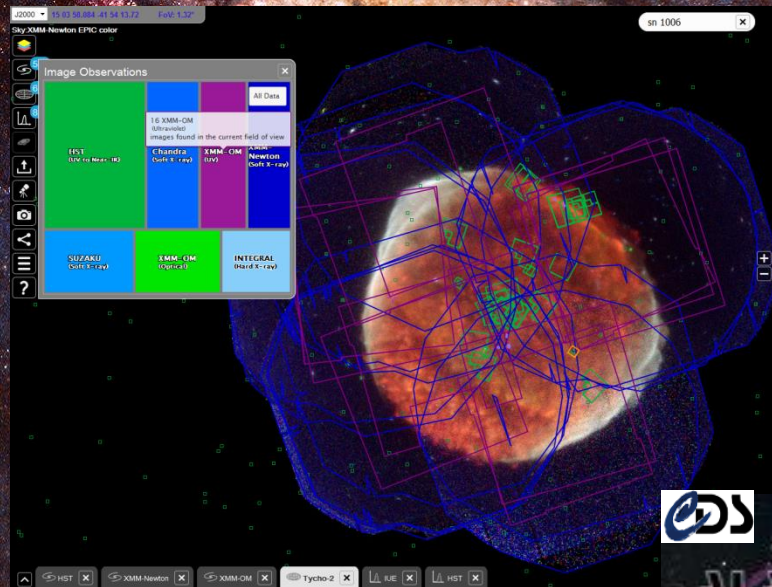
ESASky - sky.esa.int

A horizontal timeline of astronomical observatories. The timeline consists of 12 rectangular boxes, each containing a name or image. From left to right: 1. A box with the text 'Legacy: IUE, Hipparcos'. 2. A box with the image of the Helix Nebula and the text 'Herschel'. 3. A box with the image of the XMM-Newton satellite and the text 'XMM-Newton'. 4. A box with the image of the Chandra X-ray Observatory and the text 'Chandra (NASA)'. 5. A box with the image of the Hubble Space Telescope and the text 'HST'. 6. A box with the image of the Gaia spacecraft and the text 'Gaia'. 7. A box with the image of the Planck satellite and the text 'Planck'. 8. A box with the image of the ISO satellite and the text 'ISO'. 9. A box with the image of the Integral observatory and the text 'Integral'. 10. A box with the image of the EXOSAT satellite and the text 'EXOSAT'. 11. A box with the image of the SUZAKU satellite and the text 'SUZAKU (JAXA)'. 12. A box with the text 'Future: JWST, Euclid, ..'.

Demo

Collaboration is key

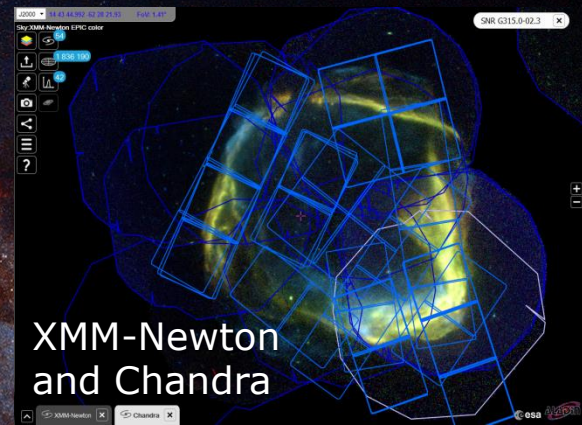
<http://sky.esa.int>



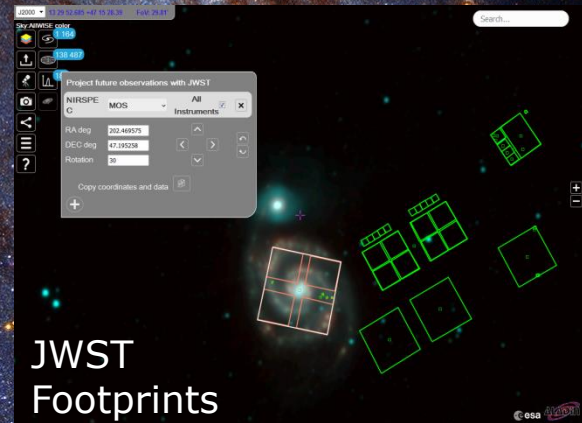
International Virtual Observatory Alliance



Standards



XMM-Newton and Chandra



JWST Footprints



Dedicated Python module to ESASky

Credits:

- **Current ESASky team members:** Fabrizio Giordano, Maria Henar Sarmiento, Elena Racero, Jesús Salgado, Belén López, Bruno Merín, Henrik Norman, Debbie Baines, Raul Gutierrez, Pilar de Teodoro, Juan Gonzalez, Juan Carlos Segovia and Sara Nieto.
- **Former ESASky team members:** Andy Pollock, Michael Rosa, Iñaki Ortiz de Landaluze, Ignacio Leon and Javier Castellanos.
- **CDS:** Pierre Fernique, Thomas Boch and Mark Allen.
- **XMM-Newton Science Operations Centre:** Pedro Rodríguez, Nora Loiseau, Maria Santos-Lleo, Matthias Ehle and Norbert Schartel
- **INTEGRAL Science Operations Centre:** Guillaume Belanger, Erik Kuulkers and Peter Kretschmar.
- **Planck Science Office:** Marcos López-Caniego, Xavier Dupac and Jan Tauber.
- **Herschel Science Centre:** Pedro García Lario, Eva Verdugo, Ivan Valtchanov, Miguel Sánchez-Portal, Pilar Esquej and Göran Pilbratt
- **ESAC Computer Support Group:** Alejandro Lorca, Roberto Prieto and Ruben Álvarez.
- **Euclid Science Centre:** Bruno Altieri, John Hoar and René Laureijs.
- **HST/ESO:** Jonas Haase and Antonella Nota.
- **JWST:** Anthony Marston, Marco Sirianni, Macarena García-Marín
- **Canadian Astronomy Data Centre (CADC):** Daniel Durand
- **Johns Hopkins University:** Tamás Budavári
- **Jet Propulsion Laboratory, Caltech:** Krzysztof Górski
- **ISAS, JAXA:** Ken Ebisawa
- **Chandra, NASA:** Janet Evans, Raffaele D'Abrusco, Yulie Zografou, Arnold Rots
- **Institute of celestial mechanics and ephemeris calculations (IMCCE), Paris:** Jérôme Berthier, Benoit Carry

Thanks!



J2000 00 42 44.330 +41 16 7.50 FoV: 27.18'



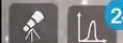
Survey tour started



Search...

Sky-DSS2 color

3 074



Upload Target List

Target list file:

SpiralGalaxies_withDescriptions.txt

M31

M33

M51

M83

M91

M95

M99

M100



The Andromeda Galaxy, M31, is a spiral galaxy approximately 2.5 million light-years (780 kiloparsecs) away in the constellation Andromeda. Being approximately 220,000 light years across, it is the largest galaxy of the Local Group, which includes the Milky Way, the Triangulum Galaxy and about 44 other smaller galaxies.

<http://sky.esa.int>

Feedback: <http://esasky.userecho.com>

Debbie Baines

Quasar Science Resources



@parttimeastro

Thanks!



GAL 1.1737996 +0.4216225 FoV: 180°

Sky-Herschel PACS RGB 70, 160 micron



304 272

924 235 771

132 068

gal centre

<http://sky.esa.int>

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Herschel X HST X XMM-Newton X ISO X XMM-OM X XMM-OM X Chandra X SUZAKU X

