

ESASky, all skies in your browser

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On behalf of Fabrizio Giordano, Elena Racero, Ricardo Vallés, Henrik Norman, Pilar de Teodoro, Bruno Merín, Belén López Martí, Jesús Salgado, Christophe Arviset & Guido de Marchi in the ESDC team

25th April 2018



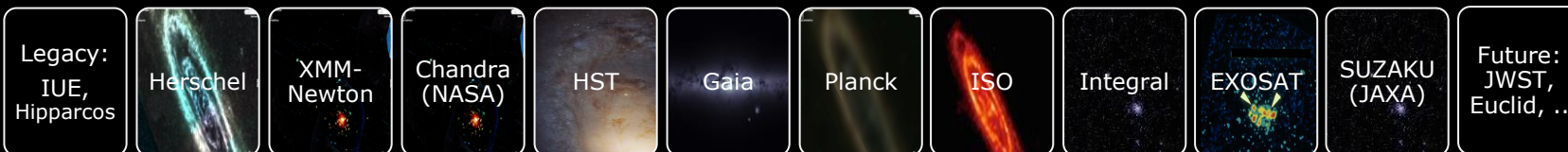
Goal: to facilitate data discovery and archival science for ALL users

- Multi-wavelength
- Project agnostic
- Exploration



Interface “on top of” all ESA astronomy archives

ESASky - sky.esa.int



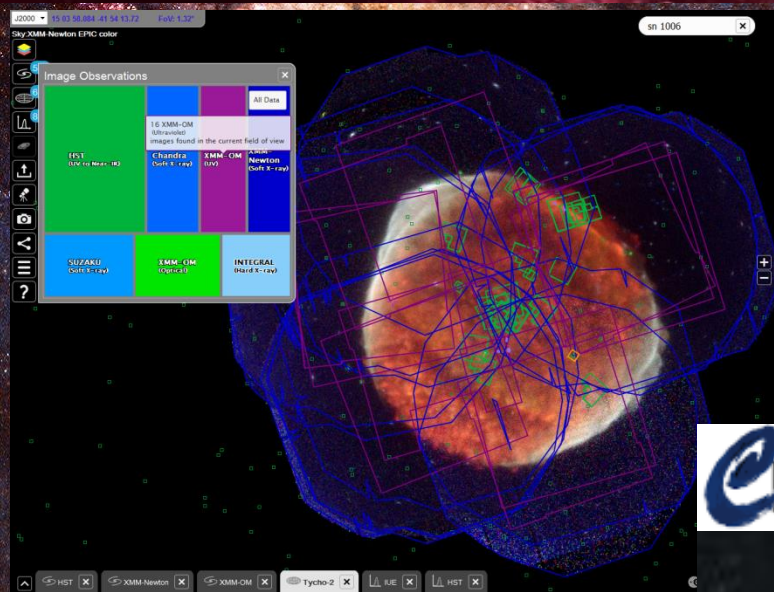
Demos

<https://youtu.be/yLVgyRo1s2U>

<https://youtu.be/dbVVMxA475A>

Collaboration is key

<http://sky.esa.int>



International Virtual Observatory Alliance



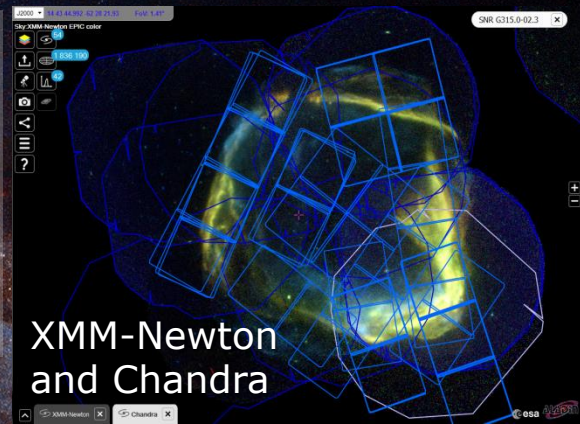
Standards: HiPS

SAMP



TAP

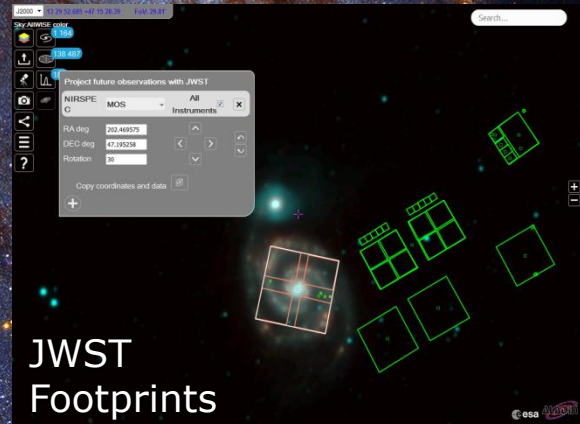
ObsCoreDM MOC



XMM-Newton and Chandra



Dedicated Python module to ESASky



JWST Footprints

A long and growing list of contributors!



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 Landaluce, 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
- **Smithsonian/NASA ADS:** Alberto Accomazzi, Michael J. Kurtz, Sergi Blanco-Cuaresma

Conclusions



- **ESASky v2.1 released Feb 2018, v2.2 to be released today with Gaia DR2 !**
- **Access to images, catalogues & spectra**
- **Access to publications and sources in publications**
- **Access to Solar System Objects as observed by astronomy missions**
- **Improved usability, now also on mobile devices !**
- **Currently working on faster access to users outside Europe**

Thanks!



GAL 1.1737996 +0.4216225 FoV: 180°

gal centre

Sky:Herschel PACS RGB 70, 160 micron



<http://sky.esa.int>

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

Come and see a demo at the ESA booth downstairs!

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 @parttimeastro



<http://sky.esa.int>

➤ **How to use ESASky and links to help pages:**

<https://www.cosmos.esa.int/web/esdc/esasky-how-to>

➤ **API: Astroquery python module information:**

<https://www.cosmos.esa.int/web/esdc/esasky-astroquery-module>

➤ **API: ESASky TAP:**

<http://sky.esa.int/esasky-tap/tap>

➤ **Observations Planning tool:**

<https://www.cosmos.esa.int/web/esdc/esasky-interface#planning>

➤ **How to contribute data to ESASky:**

<https://www.cosmos.esa.int/web/esdc/esasky-contributing>