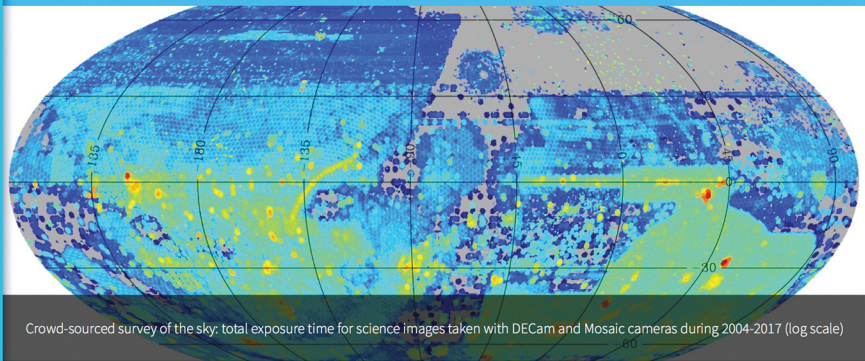
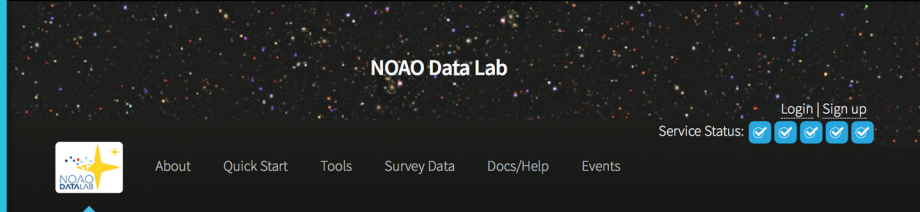




NOAO Data Lab

National Optical Astronomy Observatory
www.noao.edu



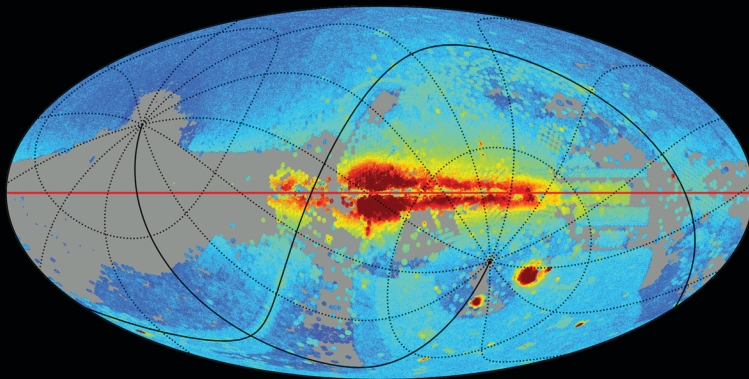
Crowd-sourced survey of the sky: total exposure time for science images taken with DECam and Mosaic cameras during 2004-2017 (log scale)



The NOAO Data Lab is operated by the National Optical Astronomy Observatory, the national center for ground-based nighttime astronomy in the United States operated by the Association of Universities for Research in Astronomy (AURA) under cooperative agreement with the National Science Foundation.

For further information, contact datalab@noao.edu.



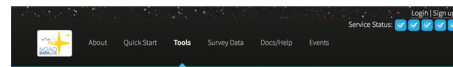


Data Lab

The overall goal of the NOAO Data Lab is to enable efficient exploration and analysis of the large datasets now being generated by instruments on NOAO and other wide-field telescopes. The Data Lab aims to:

- Connect users to high-value catalogs from NOAO and external sources (e.g. SDSS, GAIA) and NOAO-based images linked to catalog objects
- Enable users to discover the data that they need for their science
- Allow users to develop intuition through interaction with selected catalog and image sets
- Allow users to automate their analysis to aid discovery in large datasets

The Data Lab provides services to enable as much work as possible close to the data, while allowing transfer of data and results to local hardware anytime during the process. These pages contain information on the services that the Data Lab provides and the clients available to access them.



Data Lab Features:

- Large catalogs: 100+ billion total rows in DES DR1, Legacy Survey DR3-DR7, NOAO Source Catalog, DECaPS, Gaia DR2 and more
- Analysis: run Python workflows on our Jupyter notebook server
- Pixel Data: get image cutouts from the Petascale NOAO Archive
- Visualization: explore data interactively
- Virtual Storage: store data and results!

