

Astrophysics: Deep Sky Science Gateway

Objective: Create a richer set of compute- and data-resource interfaces for next-generation astrophysics image data, making it easier for scientists to use NERSC and creating world-wide collaborative opportunities.

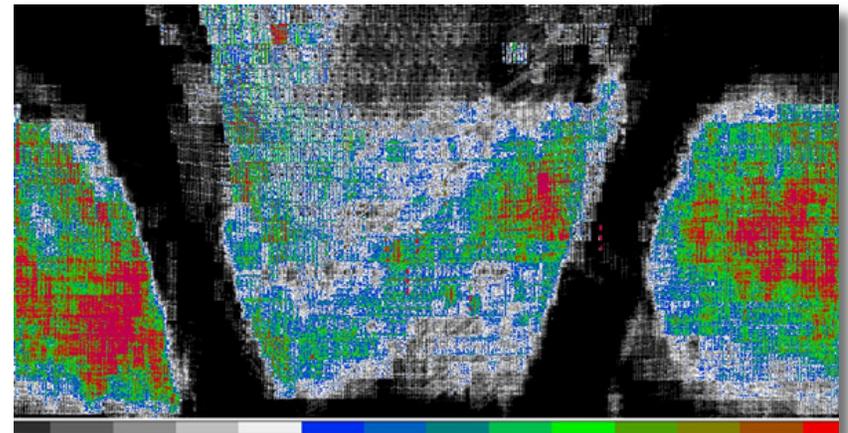
Implications: Efficient, streamlined access to massive amounts of data for broad user communities.

Accomplishments: Open-source software customized to create Deep Sky database system and interface:

www.deepskyproject.org

- ~ 11M 6-Mb images stored in HPSS/NGF
- DeepSky is like “Google Earth” for astronomers.
- Other NERSC gateways: GCRM (climate), Planck (Astro), Gauge Connection (QCD), VASP (chemistry/materials science).

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Map of the sky as viewed from Palomar Observatory; color shows the number of times an area was observed

<http://www.nersc.gov/nusers/services/Grid/SG/>