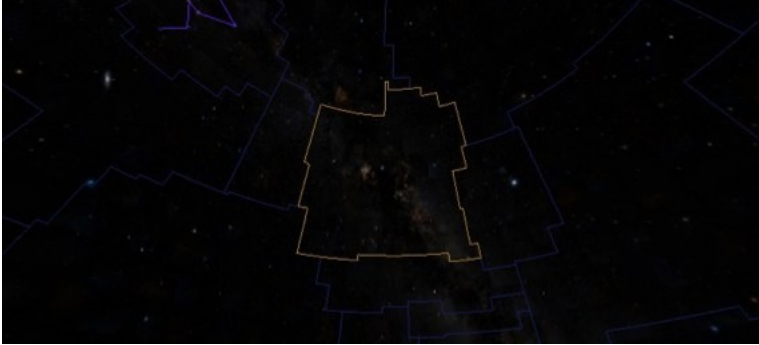




Imagery Data

Digitized Sky Survey (color) – default



Type: Sky survey

Published: 1994

Created by: Space Telescope Science Institute (STScI) Catalogs and Surveys Group

Imaged by: Northern sky taken by the National Geographic Palomar Observatory in California and Southern sky taken by the UK Schmidt telescope in Australia

Observation period: Northern sky from 1948-1958 and the Southern sky from 1973 to 1988.

Wavelength observed: Visible

Hipparcos Catalog

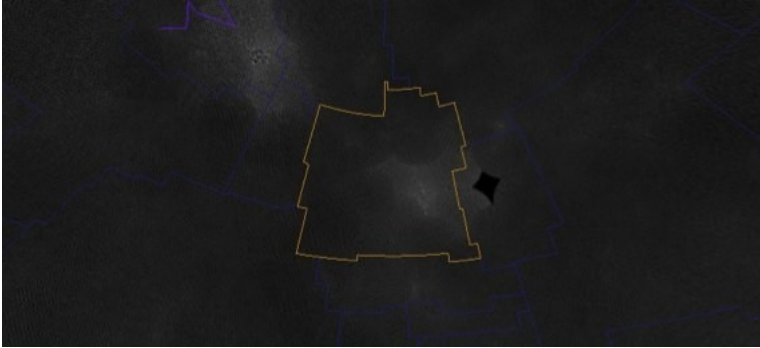


Name: Hipparcos is the name of a European Space Agency Mission and Satellite

Observation period: 1989 to 1993

Catalogued: 118,218 stars

VLSS: VLA Low-frequency Sky Survey (Radio)



Type: Sky survey

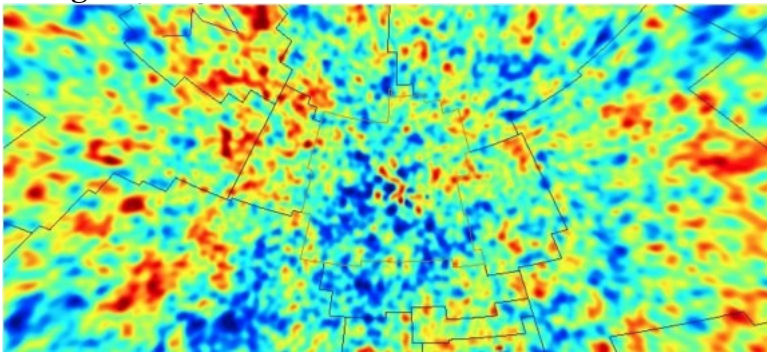
Observation period: Ongoing

Survey contains: 358 overlapping images covering the entire sky north of the -30° declination

Identified: Over 70,000 sources of radio waves

Wavelength observed: Radio

Wilkinson Microwave Anisotropy Probe (WMAP) ILC 5-year Cosmic Microwave Background

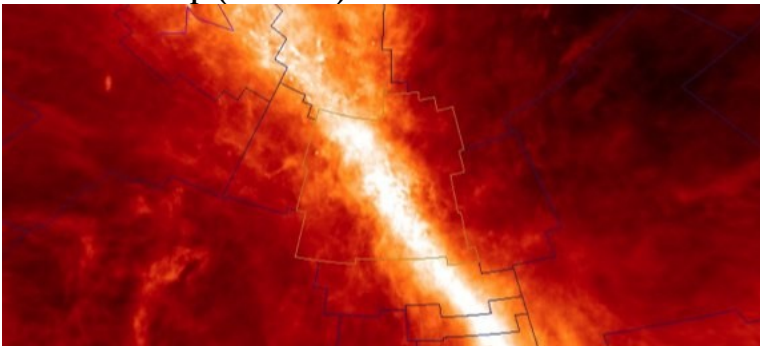


Type: All-sky survey

Observation period: 3 years, concluded in 2006

Wavelength observed: Microwave

SFD Dust Map (Infrared)

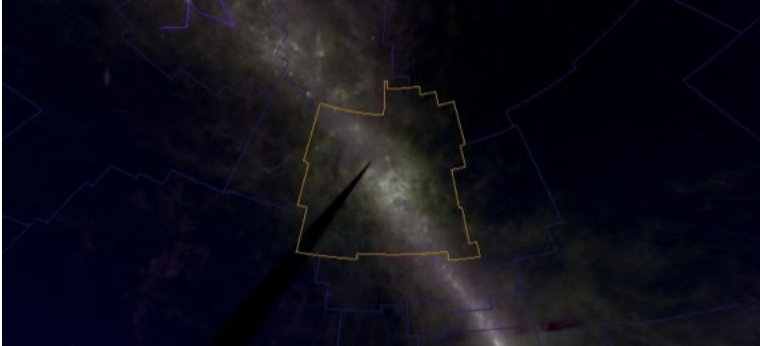


SFD: Schlegel, Finkbeiner, and Davis

Type: All-sky survey

Wavelength observed: Infrared

IRIS: Improved Reprocessing of IRAS



IRAS: Infrared Astronomical Satellite

Type: Sky survey (98% of the sky)

Started: 1983

Created by: Joint project of the US, UK, and the Netherlands

Wavelength observed: Infrared

2MASS: Catalog (Synthetic)



2MASS: Two Micron All Sky Survey

Catalogued: 470,992,970 sources

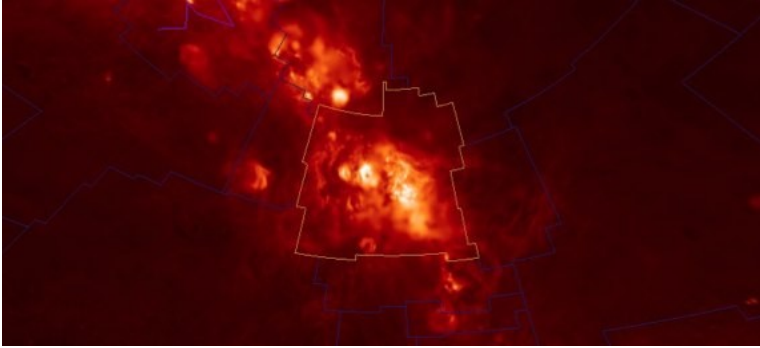
Created: 2MASS Point Source Catalog by the University of Massachusetts and the Infrared Processing and Analysis Center

Imaged by: Two 1.3-meter telescopes one at Mt. Hopkins, Arizona and one at Cerro Tololo Inter-American Observatory (CTIO), Chile

Begin: Northern facility in 1997 and the Southern facility in 1998

Wavelength observed: Infrared

Hydrogen Alpha Full Sky Map



Type: All-sky survey

Generated by: Princeton University

Images by: Northern sky from Virginia Tech Spectral line Survey (VTSS) and the Southern H-Alpha Sky Survey Atlas (SHASSA). SHASSA images were taken by the CTIO in Chile.

Light observed: Red end of the visible

SDSS: Sloan Digital Sky Survey (optical)



Type: Sky survey (more than a quarter of the sky)

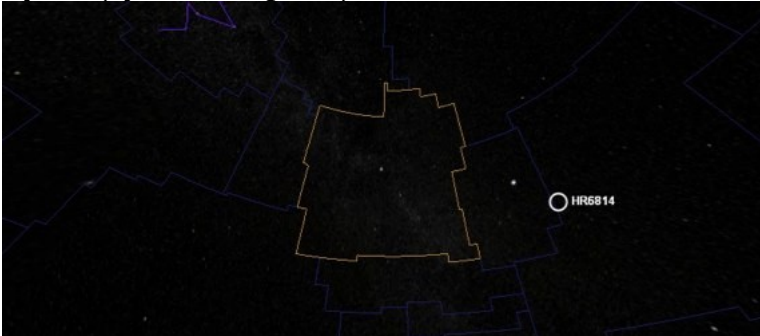
Started: 2000

Observation period: Ongoing

Telescope: 2.4-meter at Apache Point Observatory, New Mexico

Catalogue: 3-dimensional maps containing more than 930,000 galaxies and 120,000 quasars

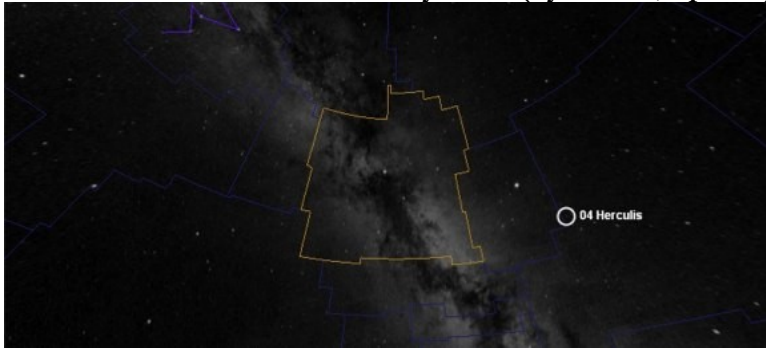
Tycho (Synthetic, optical)



Data: 1991 European Space Agency's Hipparcos satellite, Tycho 1 catalog, and over 140 other astrometric catalogs. Also the corrected data for the Tycho-1 stars.

Catalogue: 2,539,913 stars

USNOB: US Naval Observatory B 1.0 (Synthetic, optical)



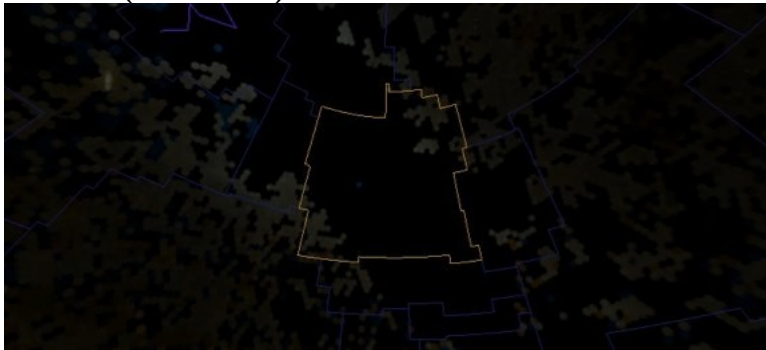
Catalogue: 1,042,618,261 objects

Data: 7,435 Schmidt plates

Observation by: Precision Measuring Machine (PMM) at the US Naval Observatory in Flagstaff, AZ.

Observation period: 50 years

GALEX (Ultraviolet)



GALEX: Galaxy Evolution Explorer

Launched: 2003

Light observed: Ultraviolet

Sky coverage: 2/3

Imaged: Over half-billion objects

RASS: ROSAT All Sky Survey (X-ray)



Released: March 2000

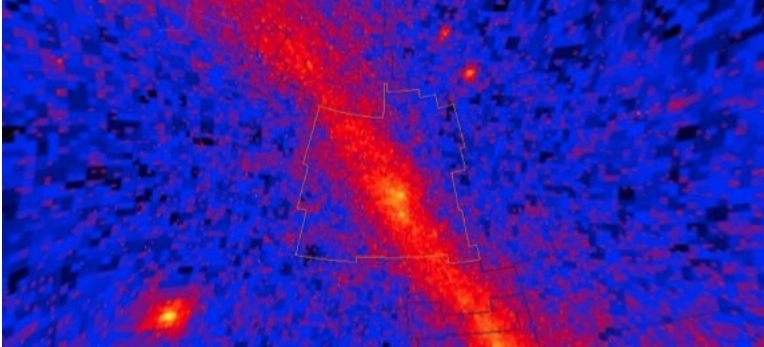
By: Max Planck Institut für extraterrestrische Physik

Type: All-sky survey

Light observed: X-ray

Catalogue: Faint source – 105,924 and the bright source – 18, 811

Fermi (Gamma)



Launched: 2008

Telescope: Fermi Gamma-ray Space Telescope

Light observed: Gamma-ray

Black Sky Background



Sets the entire background black

For more information go to “Sky Surveys” section in the WorldWide Telescope User guide: <http://www.worldwidetelescope.org/docs/worldwidetelescopeuserguide.html>

For more information on the Virtual Astronomical Observatory (VAO), visit: www.virtualobservatory.org

For more WWT education resources, visit the WWT education page: <http://www.worldwidetelescope.org/Experiencelt/Experiencelt.aspx?Page=Educators>

For more WWT Ambassadors education resources, visit the WWT Ambassadors page: <https://wwtambassadors.org>