

24-160 μm images of nearby galaxies from the Spitzer archive

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Abstract

We have reprocessed Spitzer Space Telescope 24, 70, and 160 μm images of galaxies covered in several Herschel Space Observatory surveys. Although high-quality versions of some of these Spitzer images have been published before, most Spitzer data have only been available in the form of lower-quality images from the Spitzer archive. We are currently in the process of publishing global photometric for these data, and we will also be distributing our reprocessed images to the general public.

Data overview

- Data available for the following numbers of galaxies :
 - 12 galaxies from the Very Nearby Galaxies Survey
 - 47 galaxies from the Dwarf Galaxies Survey
 - 168 galaxies from the Herschel Reference Survey
 - 13 additional galaxies from the Herschel Virgo Cluster Survey
- Publicly-released data include the following:
 - Fully-processed background-subtracted images.
 - Global photometry in machine-readable tables.
- Images created using raw data from the Spitzer archive. Data were reprocessed using the MIPS Data Analysis Tools (Gordon K. et al., 2005, PASP, 117, 503) and additional data processing steps. Data processing was customized when necessary to produce optimal images, and each image has been visually inspected.

Data distribution

Work is currently underway to distribute the images and global photometry tables through the following websites:

- Herschel Database in Marseille (HeDaM)
<http://hedam.oamp.fr/>
- Infrared Science Archive
<http://irsa.ipac.caltech.edu/index.html>
- Jodrell Bank Centre for Astrophysics
<http://www.jb.man.ac.uk>
- NASA/IPAC Extragalactic Database
<http://ned.ipac.caltech.edu/>
- VizieR Catalogue Service
<http://vizier.u-strasbg.fr/>

Papers using these data

Published papers or preprints of papers featuring these data include the following papers:

- Auld R. et al. 2012, MNRAS, 420, 1882
- Bendo G. J. et al. 2010, MNRAS, 402, 1409
- Bendo G. J. et al. 2012, MNRAS, 419, 1833
- Cortese L. et al. 2010, A&A, 518, L63
- Cortese L. et al. 2010, MNRAS, 503, L26
- Davies J. I. et al. 2012, MNRAS, 419, 3505
- de Looze I. et al. 2010, A&A, 518, L48
- De Looze I. et al. 2011, MNRAS, 416, 2712
- Eales S. et al. 2010, A&A, 518, L62
- Eales S. et al., 2012, preprint (astro-ph/1202.0547)
- Foyle K. et al. 2012, preprint (astro-ph/1201.2405)
- Galametz M. et al. 2009, A&A, 508, 645
- Galametz M. et al. 2010, A&A, 518, L55
- Gomez H. L. et al. 2010, A&A, 518, L45
- O'Halloran B. et al. 2010, A&A, 518, L58
- Pohlen M. et al. 2010, A&A, 518, L72
- Sauvage M. et al. 2010, A&A, 518, L64
- Smith M. W. L. et al. 2010, A&A, 518, L51
- Smith M. W. L. et al. 2023, ApJ, 748, 123
- Whaley C. H. et al. 2009, ApJ, 693, 1736
- Wilson C. D. et al. 2009, ApJ, 693, 1736
- Young L. M. et al. 2009, AJ, 137, 3053

Images in this poster

The images in this poster are reprocessed 24 μm images of a subset of the galaxies from the combined datasets. These galaxies have previously not been included in any publicly-released dataset of custom reprocessed MIPS data. The image scale is 1.5 cm = 1 arcmin, and each image is oriented with north up and east to the left.

