

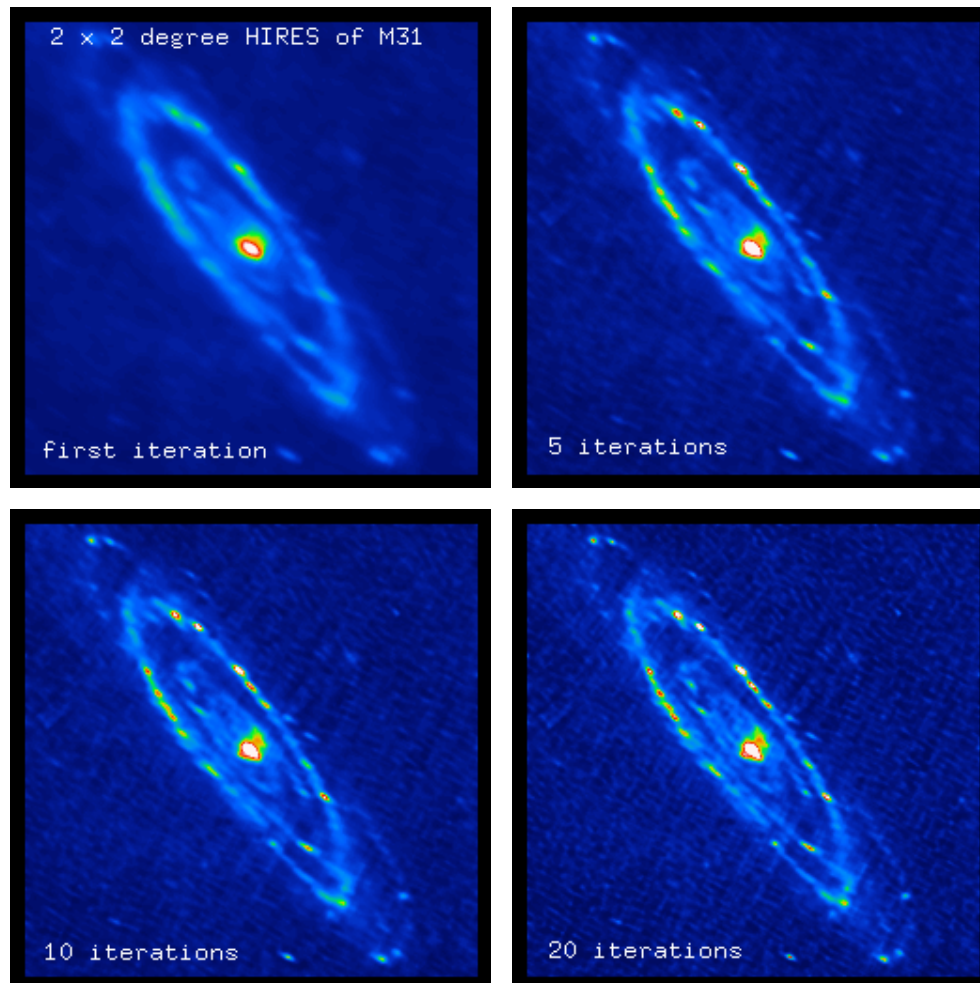


# HIRES Overview



HIRES request forms are available by sending a dummy e-mail message (which must contain at least one blank line) to:

[hires-req@ipac.caltech.edu](mailto:hires-req@ipac.caltech.edu)



HIRES uses the Maximum Correlation Method (MCM, H.H. Aumann, J.W. Fowler and M. Melnyk, (1990), *AJ*, **99**, 1674) to produce images with better than the nominal resolution of the Infrared Astronomical Satellite ([IRAS](#)) data.

HIRES is a powerful tool for studying morphology and for separating confused sources. HIRES **can** produce resolution of **better than an arcminute**, roughly a five-fold increase over the unenhanced resolution. However, the **actual resolution achieved for a given source varies in a complicated fashion**.

HIRES is suitable for studying morphology, or doing aperture photometry. HIRES fluxes are accurate to about 20%, similar to the unenhanced full-resolution survey coadds ([FRESCO](#)s). Most of the uncertainty is due to background estimation uncertainties.

Like FRESCO, HIRES images are available as 1 degree by 1 degree or 2 degree by 2 degree images, with either 15" or 30" pixels. The user also has control over what data goes into the image and what de-stripping technique is used.

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