

Dust and Gas in the Small Magellanic Cloud

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High resolution IRAS images of the SMC

Here we present four IRAS high resolution images of the Small Magellanic Cloud, as reconstructed by the HIRAS program using the Pyramid Maximum Entropy method (Bontekoe et al. 1994). (HIRAS is not to be confused with HiRes (Aumann et al. 1990).) The images show much more detail than in Schwering & Israel (1990). Dust temperatures range from 25 – 41 K (Stanimirović et al. in prep).

References

- Aumann, H.H., Fowler, J.W., & Melnyk, M. 1990, *AJ*, 99, 1674
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Schwering, P.B.W. & Israel, F.P. 1990, *Atlas and catalogue of infrared sources in the Magellanic clouds*, Kluwer Academic Publishers.

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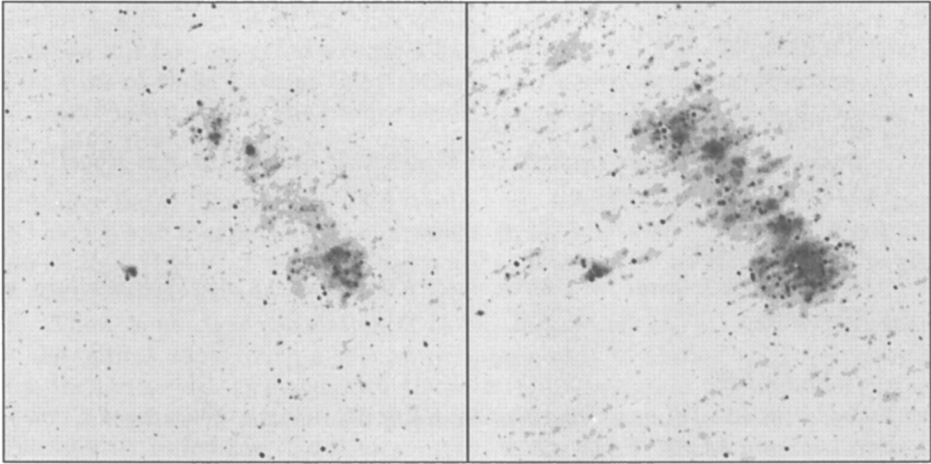


Figure 1. IRAS high resolution images of SMC, $12\mu\text{m}$ (left) and $25\mu\text{m}$. Spatial resolution of both images is about $1'$. Grey scale is identical for both images (0.3 0.4 0.5 0.6 0.8 1 2 5 10 15 20 MJy/Sr).

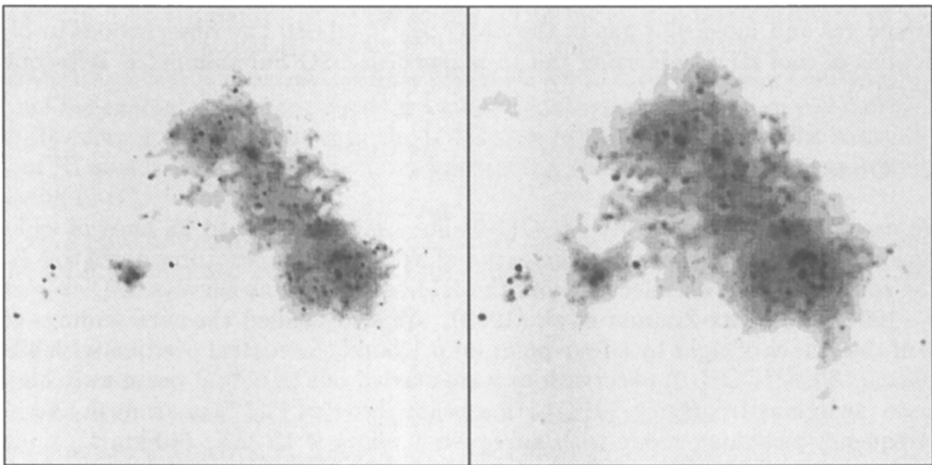


Figure 2. IRAS high resolution images of SMC, $60\mu\text{m}$ (left) and $100\mu\text{m}$. Spatial resolutions are about $1'$ and $1.7'$ resp. Grey scale is identical for both images (2 3 4 5 7.5 10 15 20 30 40 50 75 100 150 200 MJy/Sr).