Comparing IRAS and DIRBE 100μm data

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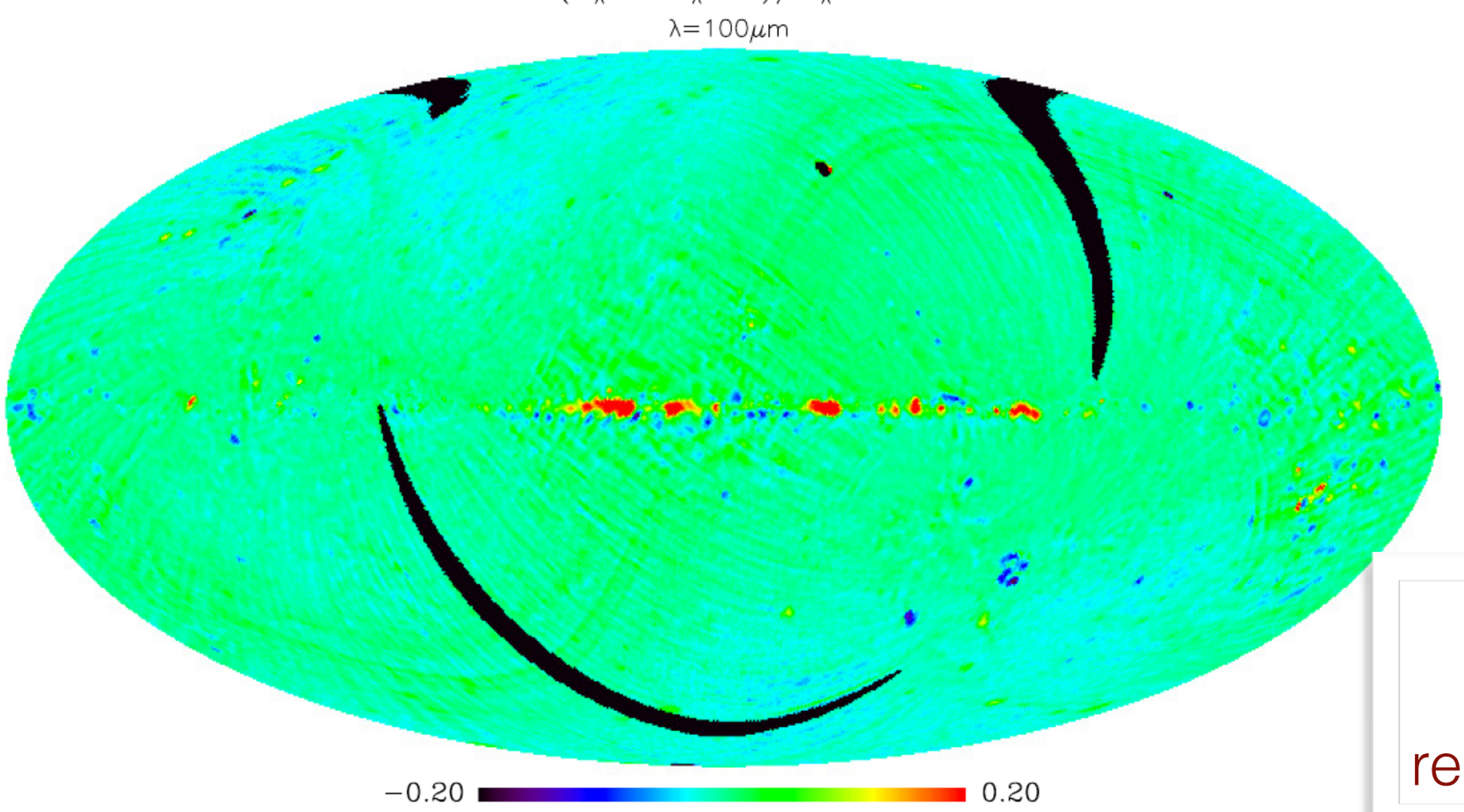
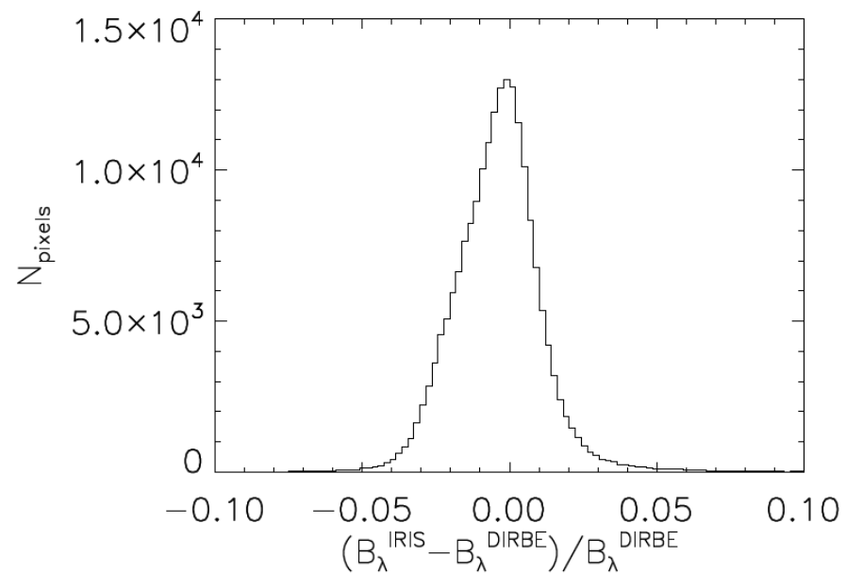
IRAS/IRIS

- First InfraRed Astronomy Satellite (**IRAS**)
  - 12, 25, 60, 100μm resolution~4’
- **IRIS**: latest reprocessing (Miville-Deschênes & Lagache 2005)
  - tied to DIRBE photometry on large scales
  - widely used, in particular at 100μm
- Large scale comparison of IRIS and DIRBE:

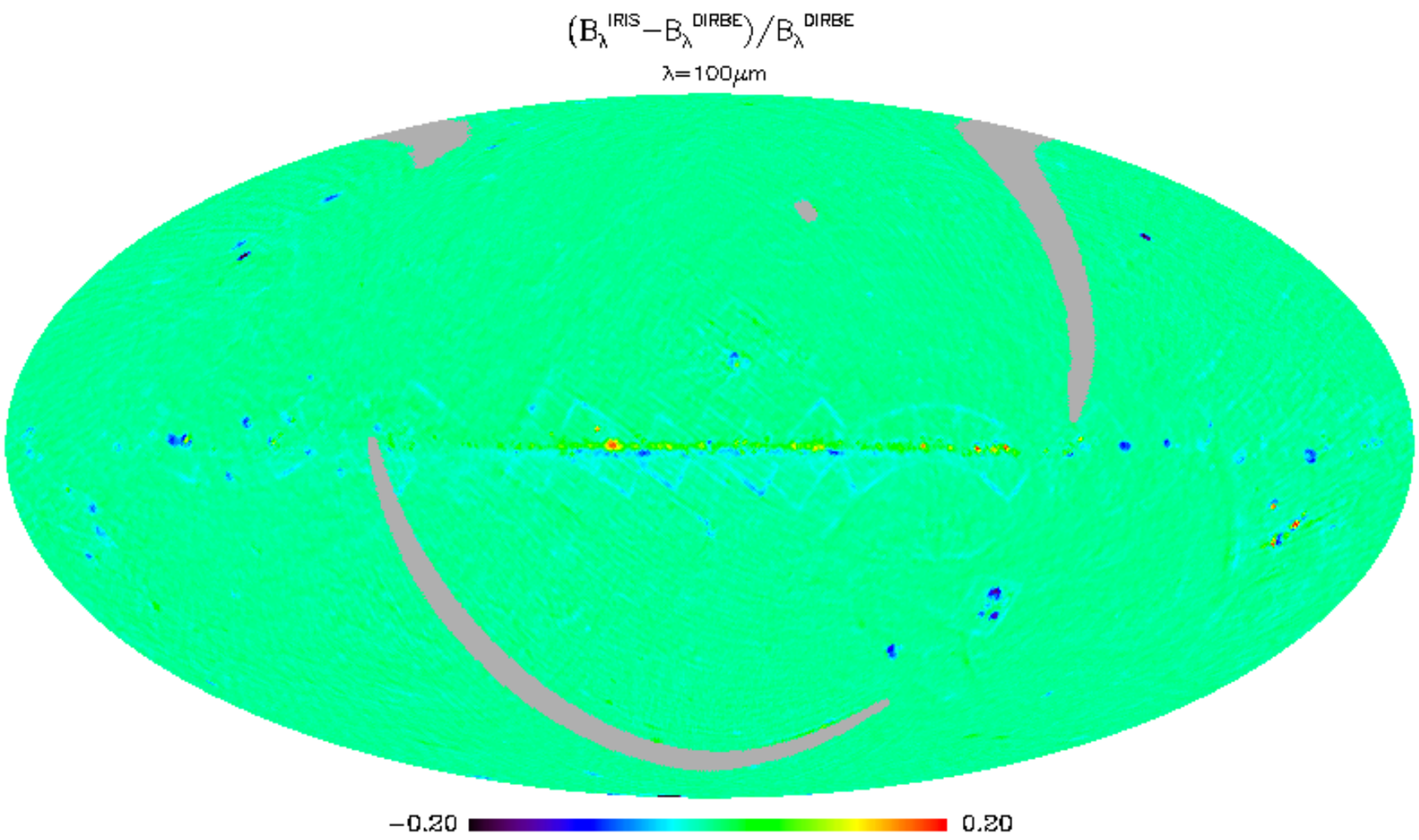


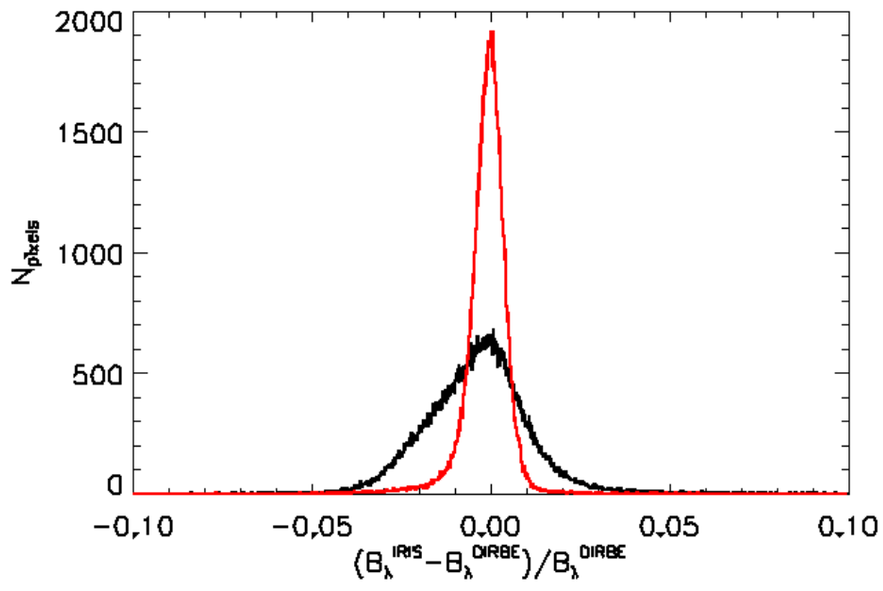


good general photometric agreement, but specific regions with significant biases

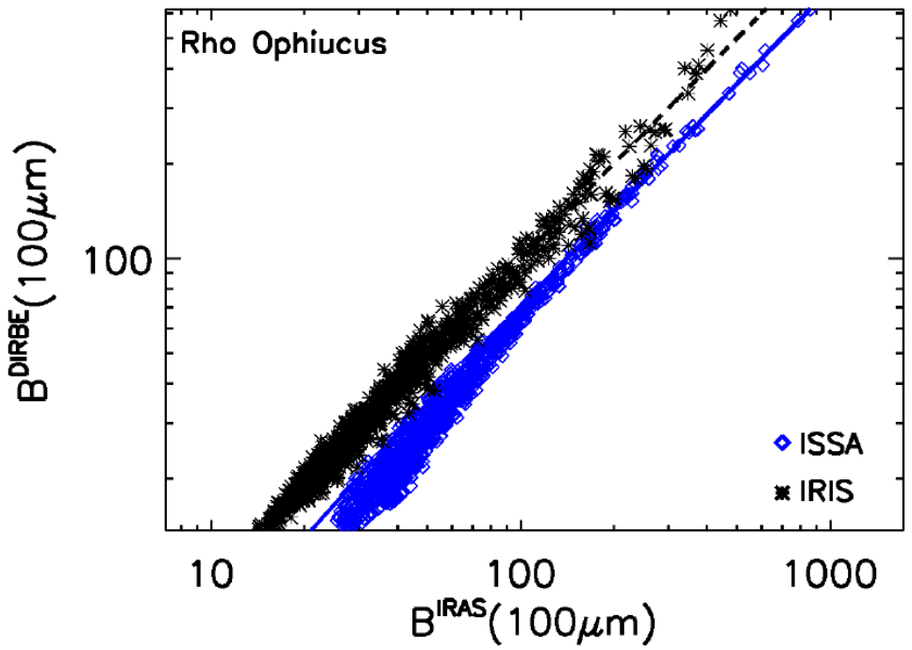
Reprocessing of IRIS data

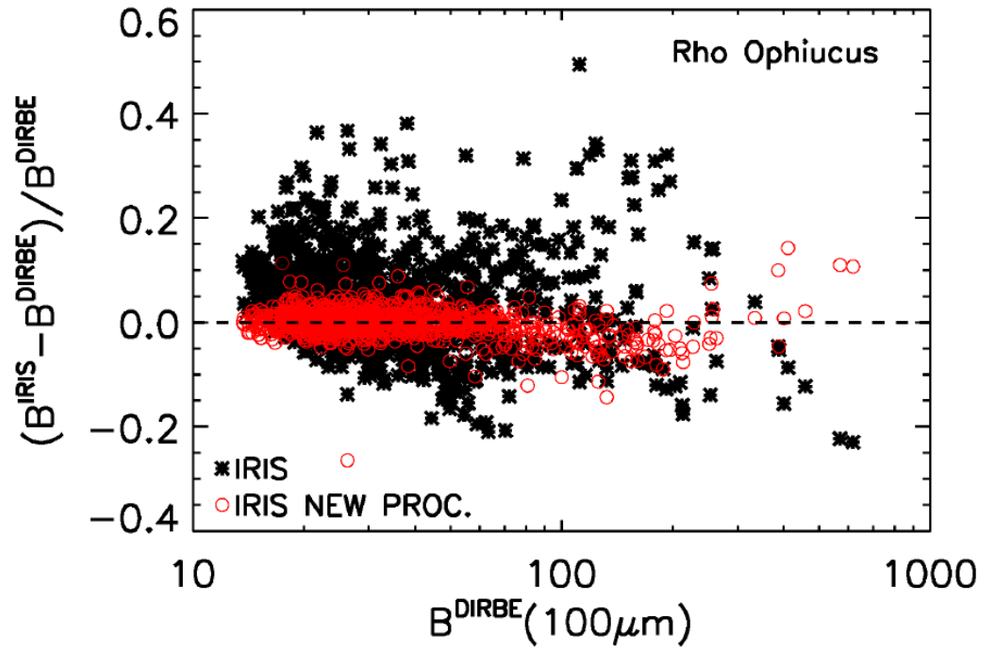
- correct DIRBE beam, data release gain differences
- improve convolution steps, heavy use of allsky Healpix and HiPS formats
- Result: **better photometric agreement between IRIS and DIRBE**

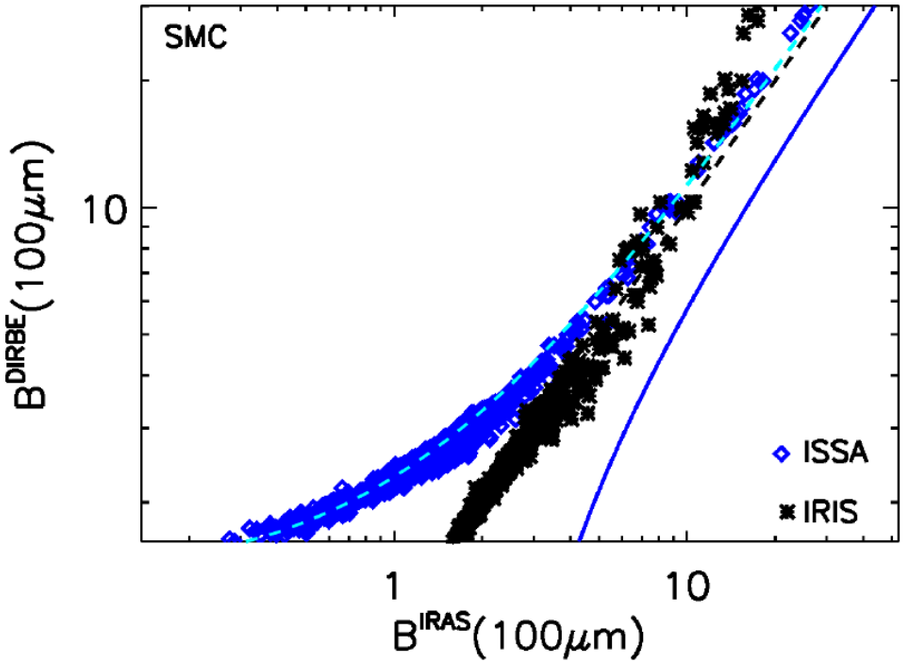


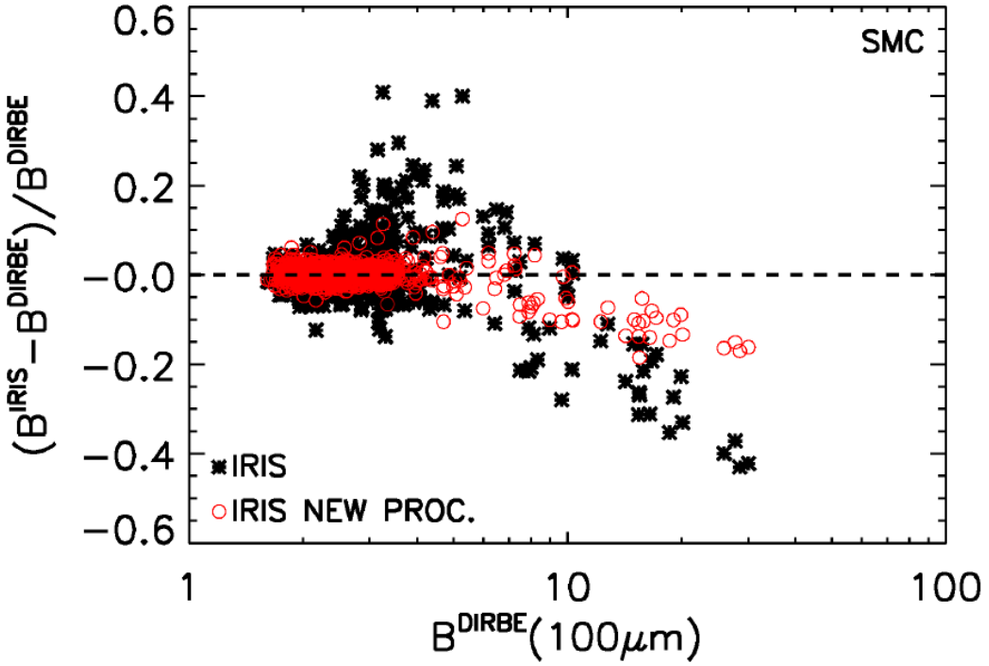


Reprocessing of IRIS data









- Still some specific biased regions, but photometry improved there too

- **Data release to come soon !**