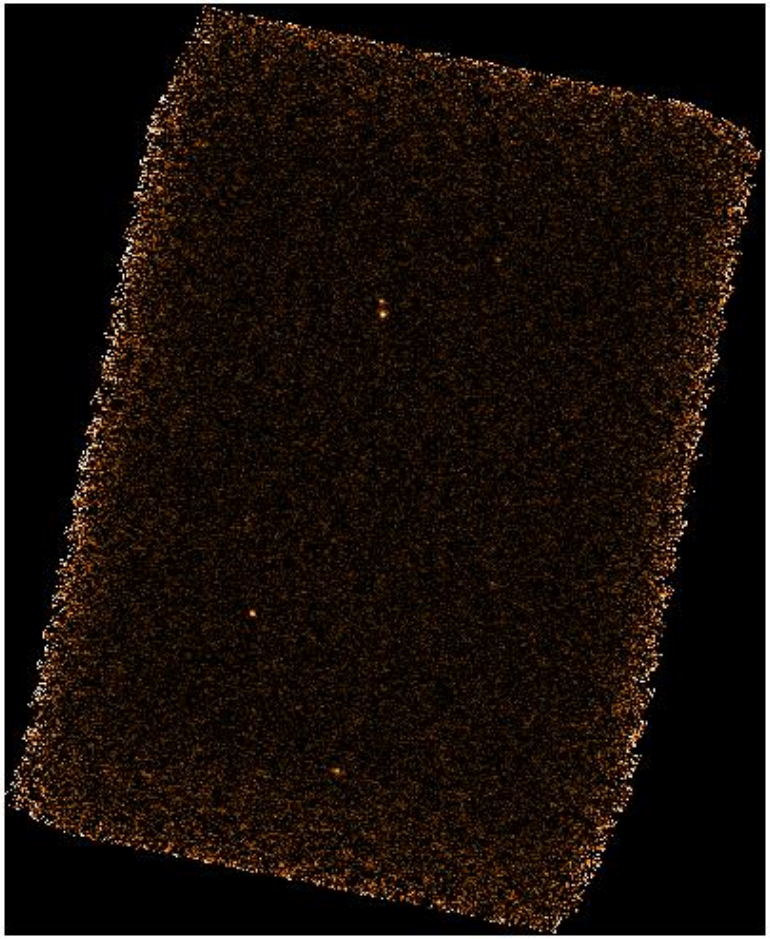
A new solution of the final coadding of Herschel images

Koryo Okumura
David Elbaz
DSM/IRFU/Sap CEA Saclay

One obsid data of GOODS south



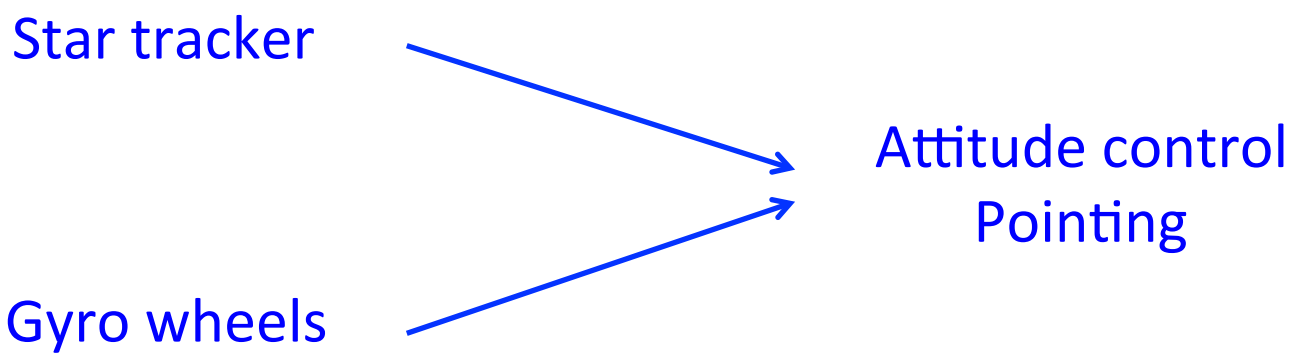
Various mappers have been proposed

- Main difficulty is a slowly varying noise (low frequency noise)
- PhotProject : simplde mosaicing with highpass filtering
  - -> extended sources are washed out
- Other mapping methods which try to deal better with signal from extended sources
- Madmap, Sanepix, Scan amorphus, etc…
- Unimap
- In order to reach a better combined map, the pointing uncertainty should be corrected beforehand

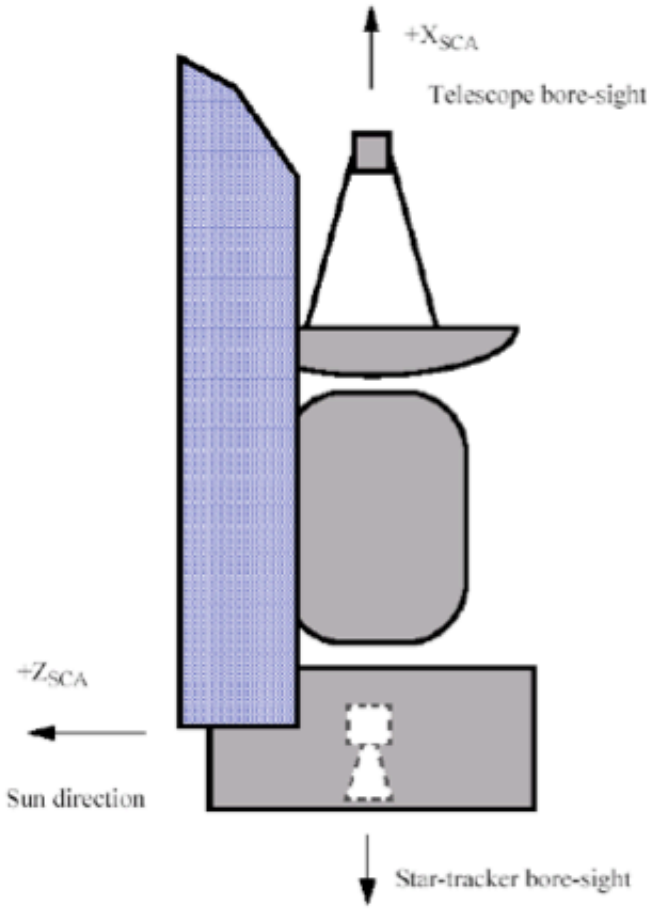
Pointing accuracy of Herschel telescope

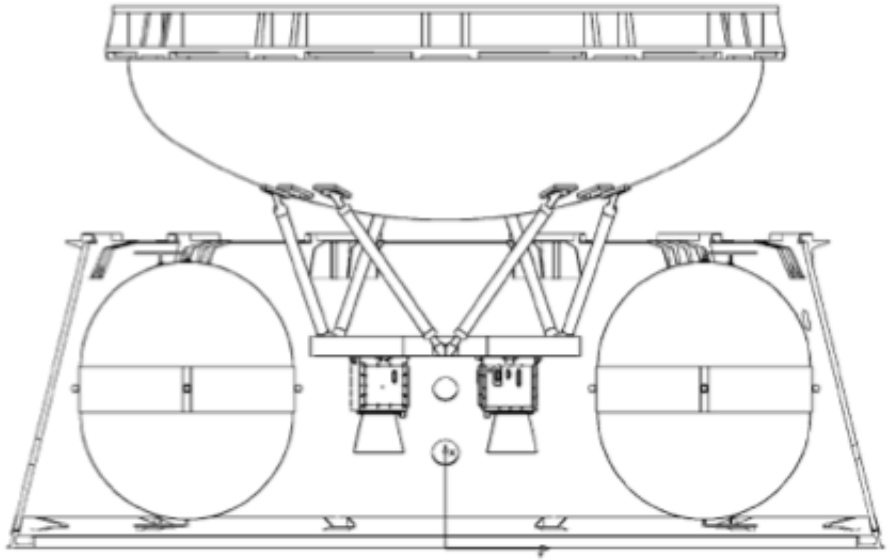
Item	Requirement for LOS [arcsec]	Goal for LOS [arcsec]
APE Pointing	≤ 3.7	≤ 1.5
RPE Pointing (1 min)	< 0.3	≤ 0.3
PDE Pointing (24 hours)	≤ 1.2	-
AME Pointing	≤ 3.1	≤ 1.2

Table 1. Herschel Pointing Modes requirements for pointing accuracy[9]



Main source of complications for Herschel pointing

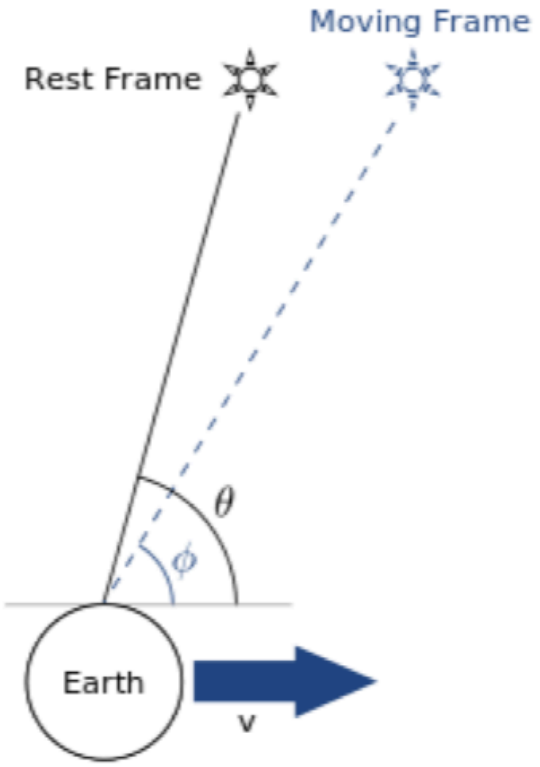




One examples of bug fix needed after launch



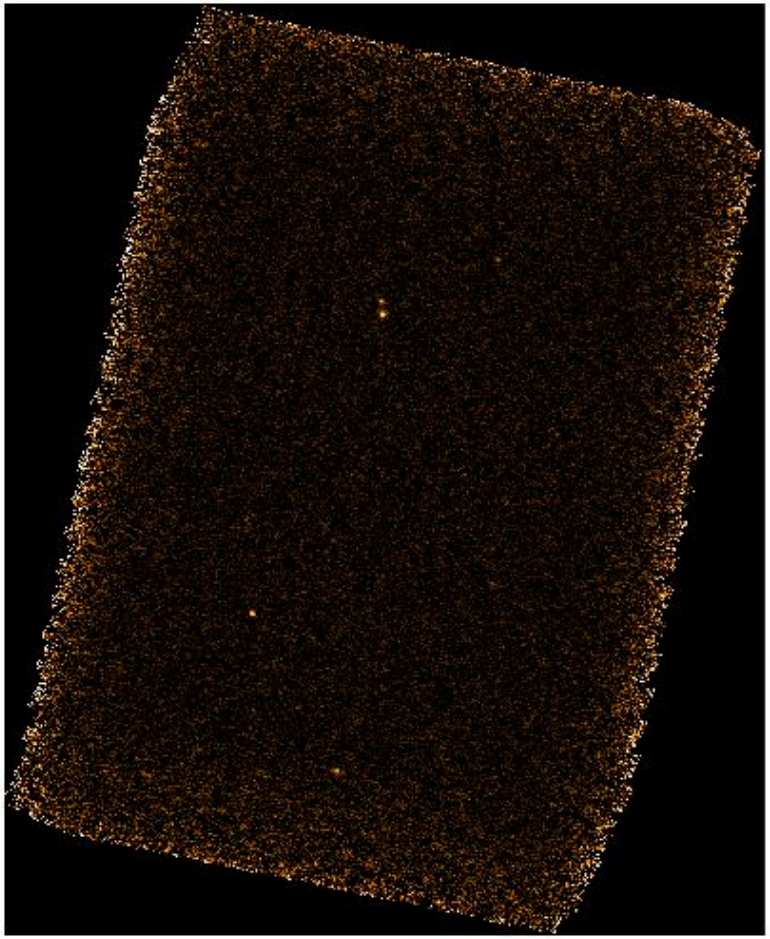
Aberration of light

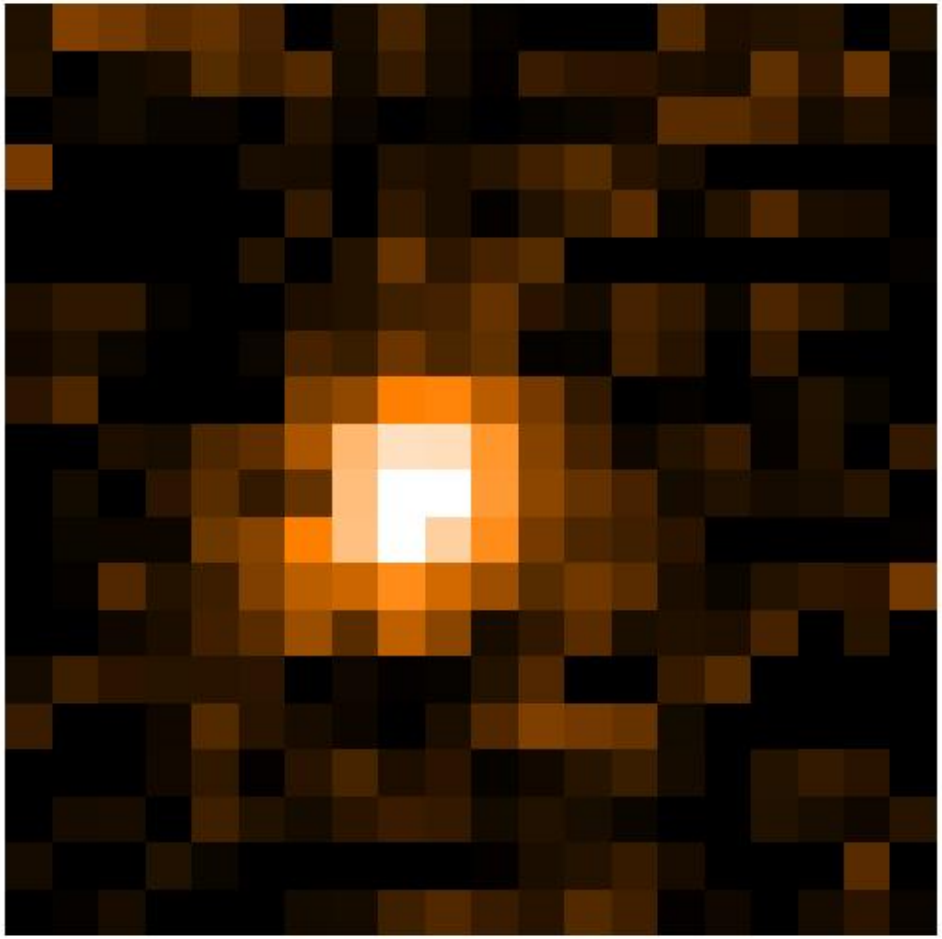


Important contribution of James Clark Maxwell from Edinburgh!



Stacked image of 60 brightest sources





Measured offset on stacked brightest sources

