

OMC Calibration and Operations status

OMC calibration team INTEGRAL Calibration Group Meeting ESTEC, 1-3-2017





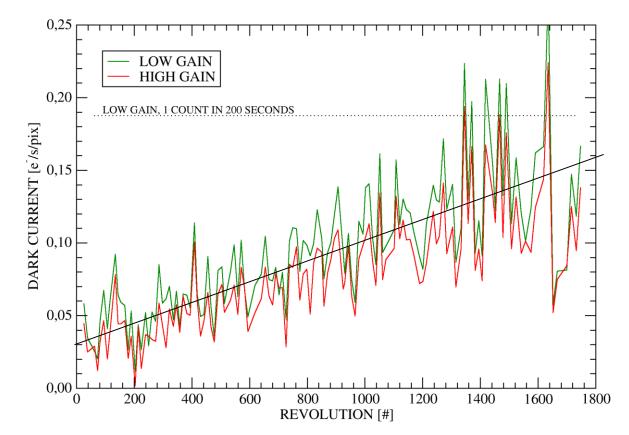
- No anomalies
- System in good health
- New Flat Field calibration strategy implemented with the helpof ISOC





DARK CURRENT

- The dark current increases slowly, but remains still within acceptable limits.
- No temperature correction done on the plot.
 - It seems the temperature of the S/C has been lower in average in the last months.

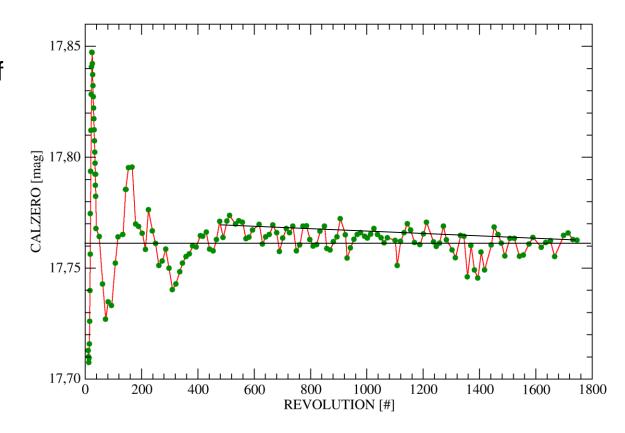






CALIBRATION ZERO POINT

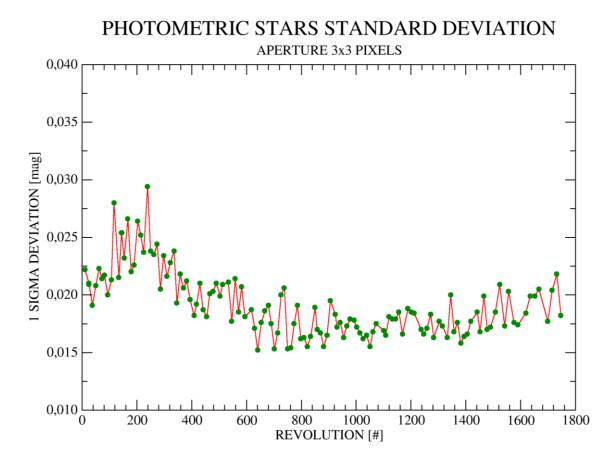
- The zero point of the calibration (a measure of the overall sensitivity) is very stable, with a small trend to decrease.
 - The darkening of the lenses is still not significant, but may be increasing very slowly





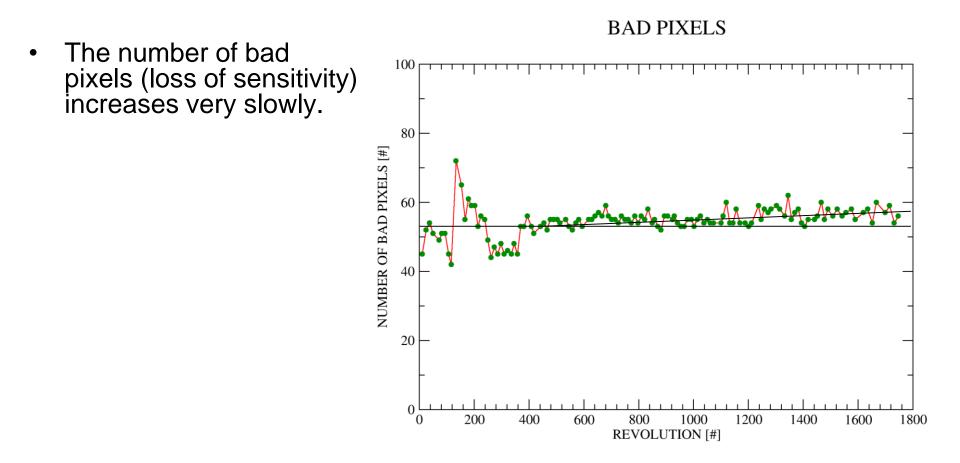


- The accuracy of the calibration remains stable, with a slow trend to worsen
 - Will be improved with the new calibration strategy.













1400 The number of hot • pixels (increased 1300 dark current or 1200 flickering pixels) 1100 increases Number of hot pixels 1000 continuously with time 900 Still < 0.1% of the 800 pixels. 700 600 500 400 300 🗄 200 400 600 800 1200 1400 1600 1000

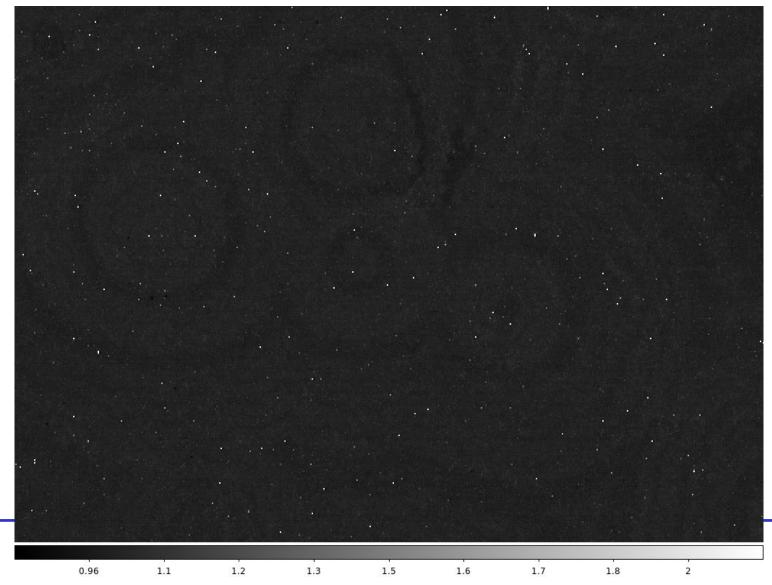
REVOLUTION [#]





8

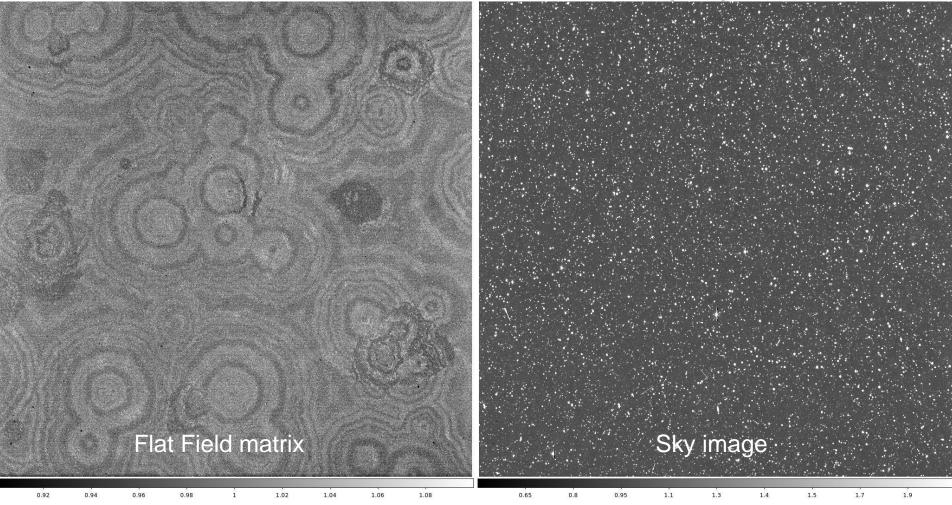
• Section of the CCD with the cuts set to identify the hot pixels.







- A new flat-field calibration strategy has just been started.
- It consists on a narrow 3x3 dither (off-pointings in steps of 2 arcminutes) to facilitate the removal of sky objects in the long exposure sky images.
- Analysis and optimization of the Flat Field matrix ongoing.







- OMC operations continue to be funded by the Spanish funding agency.
- The compromise is to fund at least up to T_{end} + ~2 years, to guarantee the final processing and archival of data.