

## OMC Calibration and Operations status

Albert Domingo INTEGRAL User's Group meeting ESOC, June 11-12, 2019





- Nothing new since last IUG in November
- No anomalies
- System in good health
  - CCD surviving well, though with some ageing effects
  - Sensitivity stable
- New Flat Field calibration strategy allows to improve the photometric calibration.

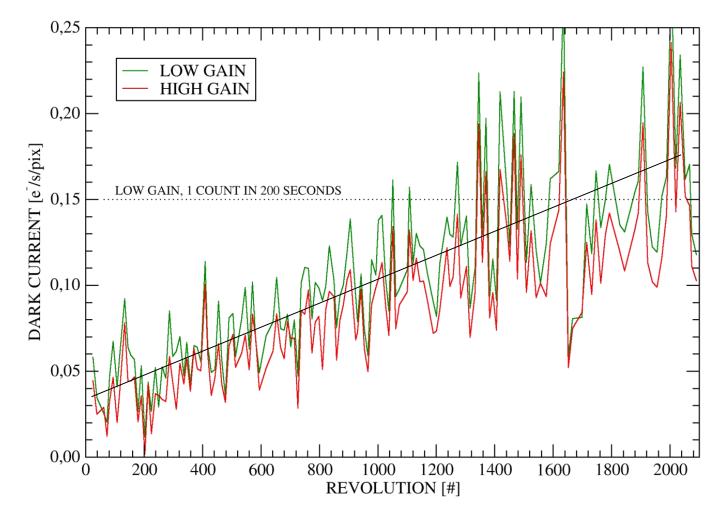






## DARK CURRENT

- The dark current increases slowly, no correction yet needed
  - But correction procedure already in place.
- No temperature correction done on the plot.

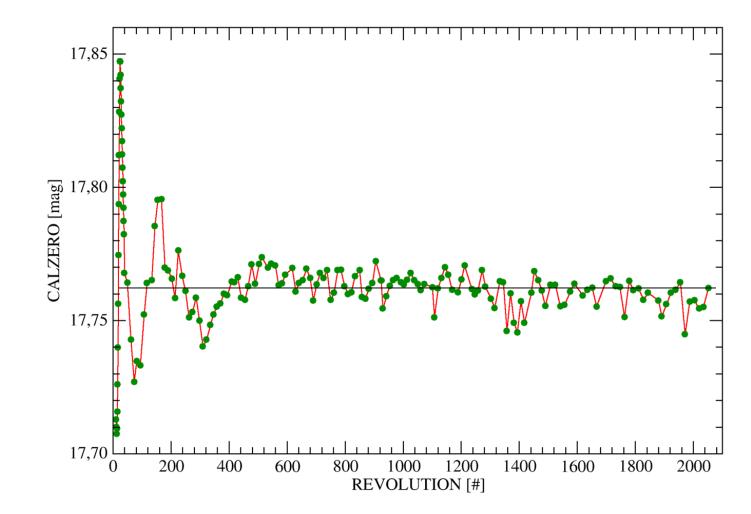






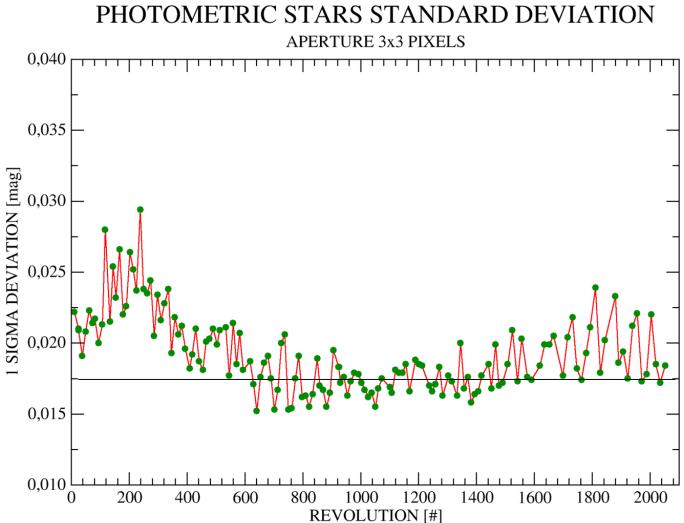
## CALIBRATION ZERO POINT

- The zero point of the calibration (a measure of the overall sensitivity) is very stable, but 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
  - Since the new calibration strategy is in place, the trend is to improve slightly.





BAD PIXELS

The number of bad pixels (loss of sensitivity) increases very slowly. NUMBER OF BAD PIXELS [#] man M. M. Mary M. 

**REVOLUTION** [#]







- Optics + CCD + thermal control hardware performing excellently after more than16 years of operation.
  - No CCD columns lost
  - CCD temperature range within predictions (-85 C to -70 C)
  - Optics still clear
  - Effect of radiation still moderate





- OMC operations continue to be funded by the Spanish agency.
- The compromise is to fund at least up to T<sub>end</sub> + ~2 years, to guarantee the final processing and archival of data.