

## INTEGRAL Operations Coordination Group Meeting 2 - Feb. 2009

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INTEGRAL Operations Coordination Group Meeting #02  
IASF, Rome  
11 February 2009

### Time Correlation Status

Presented by: R. Southworth (ESOC – OPS/OAI)



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02/2009 Page 1/4

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Revolutions 1 to 700 Regenerated and supplied to ISDC.

- Orbit determination problem has been eliminated – confirmed by SRON and ESOC FD.
- Revolutions 1 to 8 problematic, unstable station timing.

Additional Improvements made:

- Incorrect station Delay for ESA Stations removed (47us at high bit rate).
- Incorrect on-board delay (incorrect sign up to revolution 87)
- Use of measured orbit rather than predictions
- Removal of occasional problems, in particular Ground Station timing problems.



R. Southworth OPS-OFO  
02/2009 Page 2/4

## INTEGRAL Operations Coordination Group Meeting 2 - Feb. 2009

### Current activities:

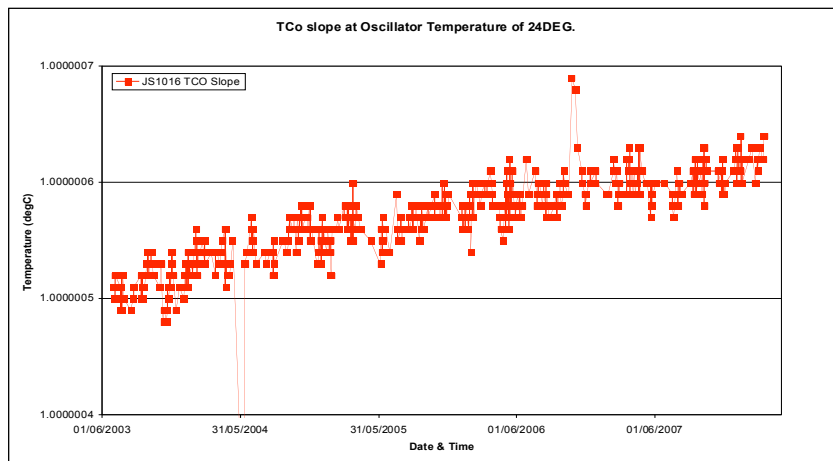
- Further checks on problematic time correlation points identified by ISDC
- Elimination of such points by changing the error criteria
- Elimination of Discontinuities caused by minor station timing problems (<50us)

### Future Activities:

- Regeneration of entire data set, using agreed error criteria and correction for known historical ground segment problems.
- Generation of revolution 701 onwards.
- Correction of station delay in NRT data.

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### Long Term Evolution of Time Correlation, probably due to ageing effects of Oscillator



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The Oscillator is not Temperature Controlled => TCO is only valid for short periods without update!

