Centre Status update reports - ISOC

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11/05/2023

INTEGRAL Science Operations Centre (ISOC)
The Team

- **Scientists** – doing mission (long + short-term + ToO) (re-)planning, organise AO calls and TAC review, manage documentation, answering Helpdesk tickets, preparing legacy archive, screen publications for data usage, outreach (conference organisation, newsletter, science highlights, social media etc)
  - Celia Sanchez
  - Jacobo Ebrero
  - Jari Kajava
  - Pablo Marcos Arenal
  - Pedro (Pere) Blay
  - Isabel Caballero
  - Peter Kretschmar (temporary)
- **Software Engineers** – developing and maintaining software for: mission (re-)planning, AO+TAC tools, web page
  - Emilio Salazar
  - Cristina Hernandez de la Torre
  - Elena Colomo Gomez
  - Andreea Castillo Cucura

Planning overheads back to normal

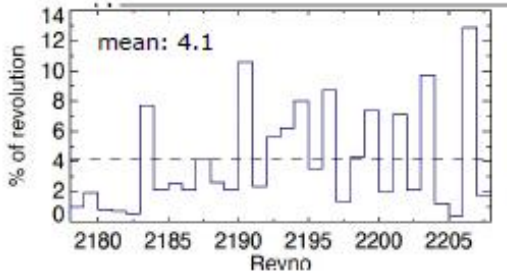
Planning overheads

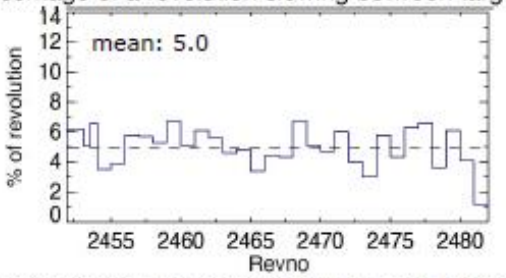
2019: pre-ESAM

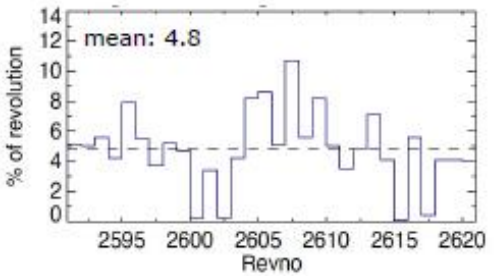
2022: post-ESAM

2023 Current: post-ESAM with GSL

Percentage of a revolution slewing between targets

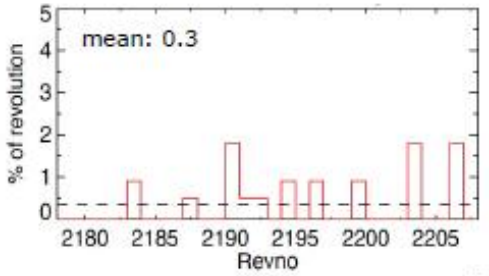


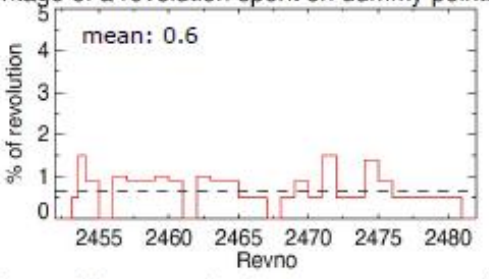


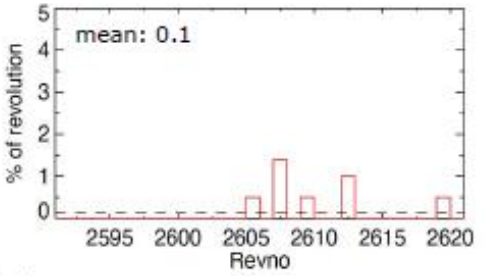


may seem similar to pre-GLS, but larger slews possible now out of instr. window: Less impact on science

Percentage of a revolution spent on dummy pointings

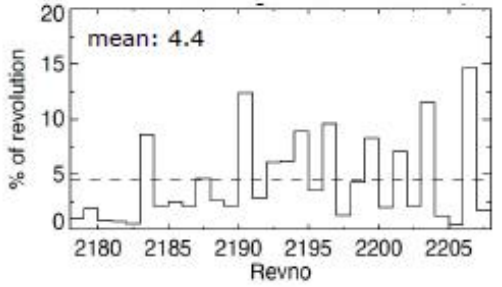


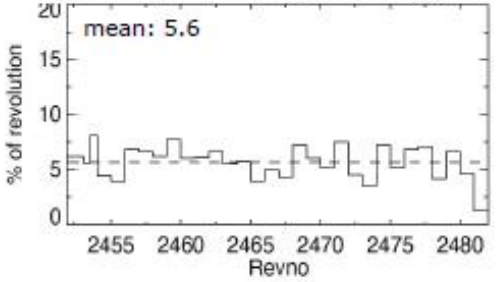


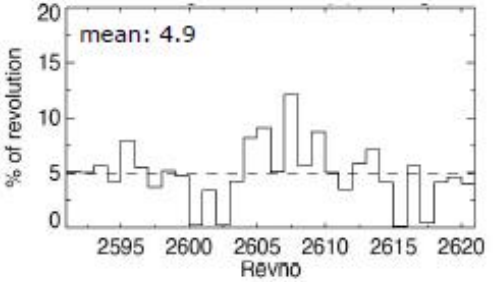


dummy point. rarely used

Percentage of a revolution spent slewing between targets + dummy pointings







+0.5% overheads than pre-esam.

- 0.7% overheads after GLS.

Fast(er) ToO Procedure

Standard ToO process so far:

- Easiest is to change the timeline of a full revolution (3 days block)
  - Drawback: Triggers at start of revolution can have up to 3 days delay
  - Interruption of current timeline possible: (RPOS) but processing takes time

Study of Fast ToO procedure:

- Include a manual slew to target attitude so the RPOS processing can be done while slewing to target => Target attitude is reached earlier (~minutes- half an hour).
- Requires a lot of resources which is only justified if very fast reaction is really needed (e.g., finding GW counterparts).

Status:

- Initial tests have revealed some issues with missing keywords complicating data analysis at ISDC
- True saving not yet known as tests met everyone prepared and on-site
  - => New test (dry run) planned with unanticipated test trigger by Project Scientist

New Format of INTEGRAL Newsletter

INTEGRAL SCIENCE OPERATIONS CENTRE NEWSLETTERS

Read the latest INTEGRAL newsletter.

AO21 Milestones

With INTEGRAL operations extension, a new call for observing proposals is being prepared. These are the important dates to save:

Release of AO-21: Call for observing time proposals	4 September 2023
Deadline for submission of observing time proposals	29 September 2023 14:00 CEST
Meeting of the Time Allocation Committee (TAC)	24-26 October 2023
Start AO-21 cycle of observation	1 January 2024

Check for extended info and AO21 related news here.

Brightest GRB ever

On October 2022, INTEGRAL took part in the multiwavelength observations of the brightest gamma-ray burst ever GRB 221009A. Another ESA spacecraft involved was XMM-Newton, but the event was also detected by other non high energy space missions. Read the details in this article.

NEWSLETTERS:

2023

2022

2010 - 2021

2000 - 2009

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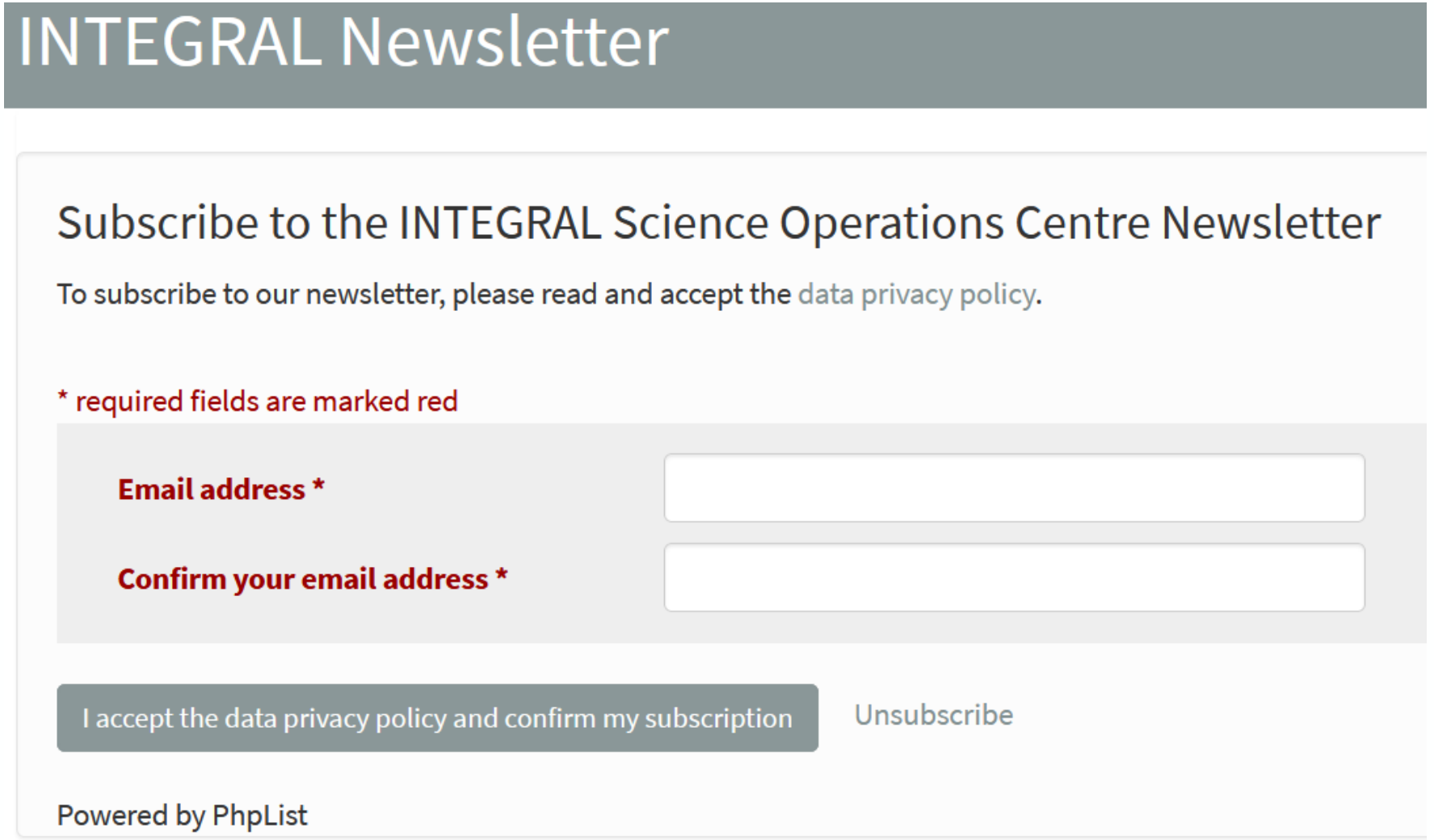
CONTACT THE EDITORS

New Format of INTEGRAL Newsletter

For reasons of Personal Data Protection: No more email subscription



Feedback on Science Support

https://www.cosmos.esa.int/web/integral/feedback