GLAST
Science Support Center Status Report

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GSSC: Milestones, Staffing

• **Presentation to GLAST FOR, Feb 2008**
  - No major issues
  - Requirements closed or to be closed (or waived) by March 16 freeze date
  - GSSC ready to support post-launch activities

• **Departure of 1 key SW developer**
  - In response, will recall 0.5 FTE, employee who had transitioned to MOC
  - Adding 0.1 FTE planning & schedule support during LEO
  - Planning replacement, i.e. flat staff profile through L+1yr
## GI Program: Schedule Drivers

<table>
<thead>
<tr>
<th>Date</th>
<th>Months-L</th>
<th>Milestone</th>
</tr>
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<tbody>
<tr>
<td>07-Jun-07</td>
<td>-11</td>
<td>Proposal materials on GSSC website</td>
</tr>
<tr>
<td>07-Sep-07</td>
<td>-8</td>
<td>GI Cycle 1 proposal deadline</td>
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<tr>
<td>17-Dec-07</td>
<td>-5</td>
<td>Peer review</td>
</tr>
<tr>
<td>01-Jan-08</td>
<td>-4</td>
<td>Results of peer review</td>
</tr>
<tr>
<td>01-May-08</td>
<td>0</td>
<td>GI program funding decision</td>
</tr>
<tr>
<td>16-May-08</td>
<td>0</td>
<td>LAUNCH!!!</td>
</tr>
<tr>
<td>Jul-08</td>
<td>2</td>
<td>Release of GBM SAE Tools, GI Cycle 1 Begins, GBM + partial LAT data release</td>
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<tr>
<td>Dec-08</td>
<td>7</td>
<td>Cycle 2 proposal materials &amp; SAE release</td>
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<tr>
<td>Jan-09</td>
<td>8</td>
<td>Release of preliminary LAT source list</td>
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<tr>
<td>Mar-09</td>
<td>10</td>
<td>GI Cycle 2 Proposal Deadline</td>
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<tr>
<td>Jul-09</td>
<td>14</td>
<td>GI Cycle 2 Begins, full LAT data release</td>
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User Support

- **Cycle-1 Program nearly implemented**
  - Separate report

- **Participation in HEAD special session**
  - GSSC services

- **Web services & help desk successfully implemented for Cycle-1 support**
  - Typically 3-4 queries per day near deadlines
  - Inordinate spike associated with GLAST naming contest; lots of SPAM
  - Accumulated FAQ list
Operations Support

• **Timeline and ToO support has been extensively tested at this point**
  - Walkthrough demo, exchange products w/MOC
  - Similar exercise planned for timeline preparation

• **4 Mission Planning Exercises completed**
GSSC Operations Support

• **Mission Planning Exercises**
  - Proposal submission
  - Proposal ingest
  - Long Term Scheduling
  - GSSC ingest of GLAST ephemeris, TDRSS ephemerides
  - GSSC delivery of preliminary science timeline
  - GSSC ingest of ISOC and GIOC timelines
  - GSSC delivery of timeline package
  - Ingest and execution of LAT calibration observations
  - TOO evaluation and commanding
Science Analysis Software

- **GSSC is required to provide science analysis software (SAE)**
  - FRD § 5.3.3.2
- **Software developed jointly w/LAT team**
  - LAT team manages the SAE CC until L+5m
  - Code architecture shared: LAT-GSSC
  - FRD requirement: single OGIP compliant configuration-managed software suite
  - SAE: current version v9r4p1
  - In use supporting LAT Service Challenge
  - Successfully ported to the HEASARC build system
    - V9r5 to be β-tested by “end-user” community
Data Ingest Completion Milestones

• **OPUS is installed and running**
• **GSSC Pipelines completed**
  - Data Ingest Pipeline
  - Proposal Ingest Pipeline
  - Level 0 Data Ingest Pipeline
  - Command Ingest Pipeline
  - LAT Data Ingest Pipeline
  - GBM Data Ingest Pipeline
• **Lingering DitL, ETE, and MPEx issues to be addressed in Release 9**
Software & Hardware Status

• **GSSC Software**
  - Release 1 – 8 complete (01/31/08)
  - Release 9 (03/08/08) Launch support
    - Bug fixes and minor updates only

• **GSSC Hardware**
  - All major CPU’s in-place and configured
    - Primary computers in Bldg. 2
    - Backup computer in Bldg. 14
GSSC AI Status

- SOOG apparently disbanded, so AI-46 no longer relevant?
- AI-53: Web form implemented
AI 53: Establish website for observers to post GLAST-relevant observations. This information could potentially be given consideration in GLAST re-planning.

Web page established, awaiting observer inputs…
Database Query