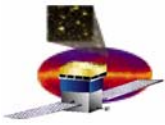


GLAST Large Area Telescope

**WBS 4.1.B IOC
GSFC Monthly Review**

October 2003

**David Lung
LAT IOC Subsystem Manager**



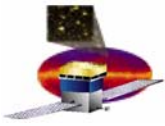
October Accomplishments

❑ Re-baseline Efforts

- Nearly completed the re-baseline effort – need to verify the new schedule and plan works with the program milestones
 - ✓ Updated IOC WBS scopes and responsibilities
 - ✓ Reduced most of the links and reduced complexity of the IOC schedule
 - ✓ Updated the resource loading to level out the expected FTEs

❑ Instrument Commanding

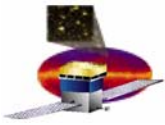
- Clarified instrument command and memory load interface with MOC
- Format will be identified in the Operations Data Products ICD



October Accomplishments

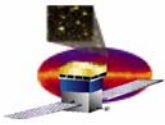
□ Telemetry and Command Database

- **Draft of Data Format Control Document (DFCD) received from MOC**
- **Sample/preliminary database generated**
 - ✓ **Output in ITOS-compatible format was sent to NRL to check validity**
 - ✓ **Consists of 4 commands and 160 telemetry parameters**
- **Work in progress to create mnemonics and identify telemetry database information for thermistor and RTD instrumentation**



Near Term Milestones

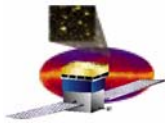
Milestone ID	Milestone Description	Original Date	Current Date	Major Reqmnts to Achieve Milestone	Notes
TBD1	Update Level II and III requirements	08/15/03	08/20/03	Complete the GSRD review with GSFC to ensure all requirements are traceable	
TBD2	Preliminary release of the Verification/Validation Plan	09/05/03	09/05/03	<i>Released, received feedback from GSFC</i>	
TBD3	Release IOC requirements (CCB)	09/30/03	12/30/03	<i>Reviewed requirements with the LAT Operation Committee - Identify the need to generate a Level III requirement for Science Operations Group</i>	
TBD4	First Draft of Ops ICD	10/31/03	10/31/03	Received the updated draft of the Ops Document from GSFC	
TBD5	LAT CMD/TLM database definition	10/31/03	11/30/03	Work in progress	



Key Milestones

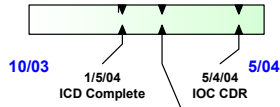
□ Key FY 04 dates for IOC Subsystem

- IOC/SAS Subsystem Peer Review 2/15/03
- Site Evaluation Complete 03/31/04
- IOC CDR 05/04/04
- Tower A/B Database Release 05/28/04
- IOC Software Release 1 06/16/04
 - Needed to support GSFC GRT #1 (11/10/04)
- IOC Software Release 2 08/26/05
 - Needed to support GSFC GRT #5 (11/15/05)

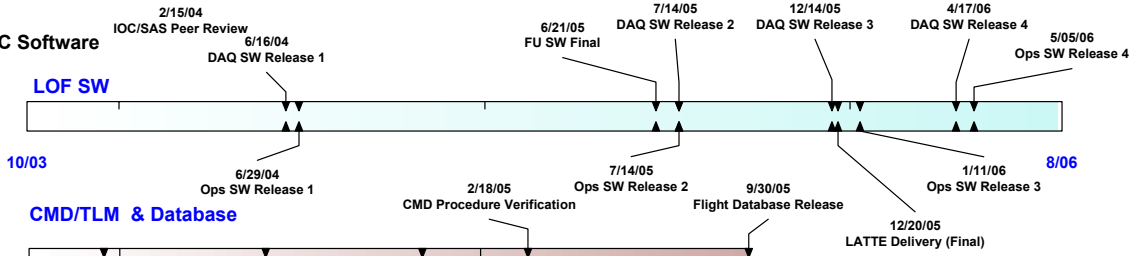


IOC Re-baseline Key Dates

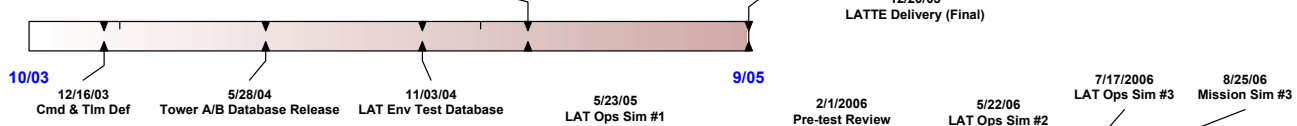
IOC CDR Preparation



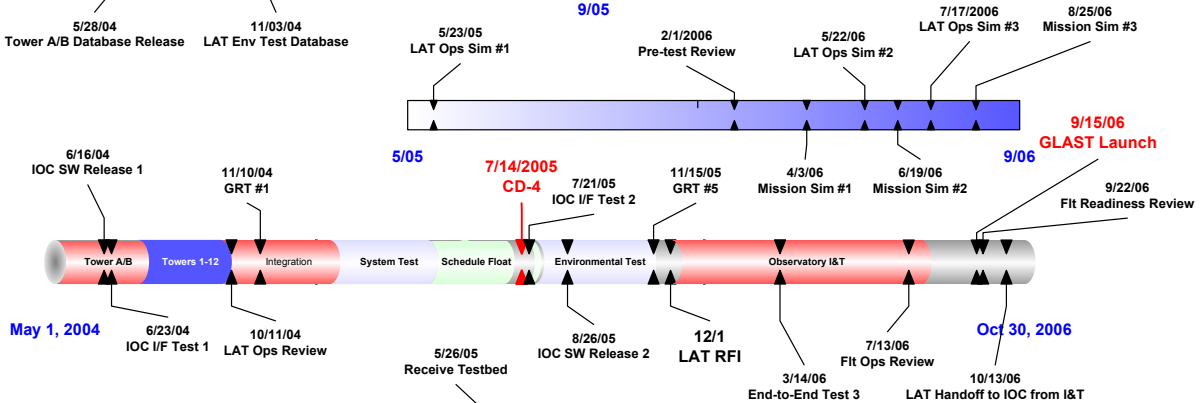
IOC Software



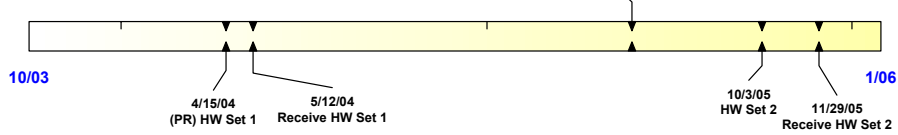
CMD/TLM & Database



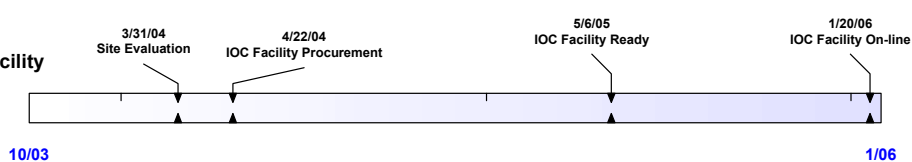
Training Sim

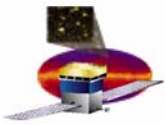


Ground HW



Facility

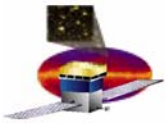




Open Issues/Concerns

- ❑ **No significant technical threat at this time**

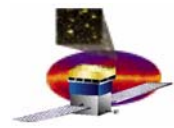
- ❑ **Concerns**
 - **Science Operations Group (formerly: Instrument performance and evaluation group)**
 - **Concern: The function has been identified, but the formulation of the group's role, responsibility, and funding is still work in progress.**
 - **Closure Plan: The PI is providing the leadership role in formulating the group's role and responsibility.**



Cost & Schedule Status

- ❑ **Schedule & Cost threat**
 - **There are no schedule and cost threats in IOC's critical path**

- ❑ **Cost & Schedule Variances (September)**
 - **The Cumulative Cost & Schedule Variance of +344K (Cost) and -124K (Schedule) will continue until re-baseline is completed**
 - **No significant schedule variance (-8K) for month of September**



Cost Variance Analysis

- **Cumulative Cost Variances (September): +344K**
 - **Cost variance continues to grow at about +20K per month as the material cost performed by ONE is being captured under the SLAC operation**
 - **Re-baselining will remove cost variances**