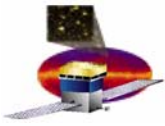


GLAST Large Area Telescope

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

Period Ending: September 2003

**David Lung
LAT IOC Subsystem Manager**



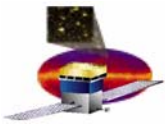
September Accomplishments

□ Documentation

- Draft updates of Level II and III IOC specifications are completed and are in review, comments are being incorporated
- Worked with MOC on draft of Operational Products ICD
- Drafts of Level IV IOC specification and IOC Verification Plan are in work

□ Telemetry and Command Database

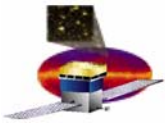
- Data Format Control Document (DFCD), a new document to be written by Ground System/Ops Manager, will define the detailed format for T&C databases exchanged between the LAT IOC, GBM IOC, MOC, and Spectrum Astro during I&T and operations



Open Issues/Concerns

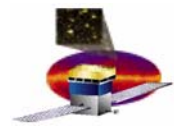
- ❑ **No significant technical threat at this time**

- ❑ **Concerns**
 - **Instrument performance and evaluation group**
 - **Concern: The function has been identified, but the formulation of the group's role and responsibility has not been agreed upon.**
 - **Closure Plan: The PI is providing the leadership role in formulating the group's role and responsibility. A preliminary study by the LAT team is underway.**



Key Milestones

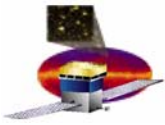
- ❑ **Next 3 months**
 - **IOC Subsystem Peer Review – week of 2/23/04**
 - **Verification and Validation Plan (Preliminary release) – 9/30/03**
 - **Release updated IOC requirements with final GSRD inputs – 9/30/03**
 - **Establish internal IOC data interfaces – 10/15/03**
 - **Establish first draft of Operational Data Product ICD between LIOC/MOC/GSSC/GIOC and Science Data Product ICD between LIOC/GSSC – 10/31/03**
 - **LAT command and telemetry database definition (Preliminary) – 10/31/03**
- ❑ **Working with GSFC Ground Systems to integrate the LOF Critical Design Review into the Ground Systems Design Review to be held week of 5/4/2004**
- ❑ **IOC readiness dates support the Ground Readiness Testing**
 - **GRT# 1-4: IOC ready by August 2004**
 - **GRT# 5-7: IOC ready by September 2005**



Cost & Schedule Status

- ❑ **Rebaseline effort is continuing, the cumulative variance to date are:**
 - **Cost Variance is +324K**
 - **Schedule Variance is -116K**

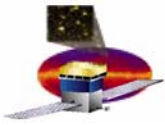
- ❑ **Schedule & Cost threat**
 - **There are no schedule and cost threats in IOC's critical path**



Cost Variance Analysis

- ❑ **Cost Variance (August): +11K**
 - Cost variance continues as there are no ACWP collected against the BCWP.
 - Corrective action: The cost variance will be corrected by the rebaseline effort and transferring the IOC budget from LAT budget to SLAC operations budget

- ❑ **Cumulative Cost Variances (August): +324K**
 - The significant cost variance areas are:
 - +109K, 4.1.B.1 Project Management
 - +128K, 4.1.B.4 LAT Operations Facility
 - +50K, 4.1.B.6 LAT Performance Verification



Schedule Variance Analysis

- **Schedule Variances (August): -20K**
 - Many of the scheduled tasks in the current plan are outdated or definitions have changed, examples are
 - ICD Tasks are expected to be finished, but have just started to define the interface between IOC and MOC/GSSC
 - Database Tasks, where the database interfaces are still being worked between IOC and MOC and the LAT Subsystems
 - Corrective action: As part of the rebaseline effort, all tasks and milestones are being evaluated and adjusted to reflect the proposed LAT Instrument schedule

- **Cumulative Schedule Variances (August): -116K**
 - The significant schedule variances are in :
 - (-28K), 4.1.B.2 Performance Assurance
 - (-43K), 4.1.B.4 LAT Operations Facility
 - (-45K), 4.1.B.6 LAT Performance Verification