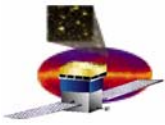


GLAST Large Area Telescope

**WBS 4.1.D SAS
GSFC Monthly Review**

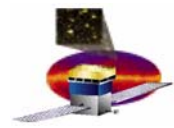
Period Ending: Aug 2003

**Richard Dubois
LAT SAS Subsystem Manager**



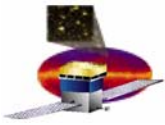
Aug Accomplishments

- Continued preparations for Data Challenge 1
 - Onboard filter code now embedded in full sim/recon; under test.
 - Updated sky model; nearly ready with machinery to generate day's data
 - First version of exposure output under test
- Finished preparations for CAL EM data; awaiting real data real soon now.
- Continued validation of GEANT4
 - First crack at revised EM tests done
 - Building machinery for inclusion in system tests
- Ground Systems Requirements document review with Mike Rackley et al
- Hired replacement SciProg at SLAC. Has started already.



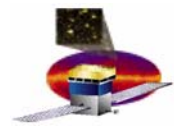
Issues & Concerns

- ❑ No significant technical threat at this time
- ❑ Awaiting CAL EM data
 - ❑ Usually some scrambling to ensure proper decoding into ground system
 - ❑ Having done TKR already makes it easier 2nd time around
- ❑ Schedule threat averted
 - CDR moved to April 2004
 - Avoid overlap of DC1 and CDR. Phew!



Software Testing Update

- **documentation and coding reviews enforce coding rules**
 - **Held review of Onboard Filter (in ground code)**
- **“Continuous integration”**
 - **Science Tools nightly builds added back in to the system**
- **Continuing effort with SLAC to validate GEANT4 EM physics**
- **Data Challenge**
 - **performance evaluation tests sim/recon in great detail.**
 - **Stress test data production capabilities**
 - **Try first connections to SSC with DTS**



Key Milestones

- ❑ **Data Challenge 1 Kickoff at Rome Collaboration meeting – Sept 2003**
 - Preliminary instrument response functions ready
 - Should have PSF, backgrounds analysis ready 9/15. Then work on IRF parameterization.
- ❑ **Start DC1 Analysis effort – December 2003 (closeout Feb 2004)**
 - Tight schedule to demonstrate OPUS pipeline. We have a fallback position
 - Start processing 400M events in late November
 - ❑ We have set mid-Oct to mid-Nov as float to get it all together
- ❑ **SAS Subsystem CDR – April 2004**
- ❑ **Participate in the Mission Ground Readiness Testing**
 - GRT# 1-4: SAS ready by August 2004
 - GRT# 5-7: SAS ready by September 2005