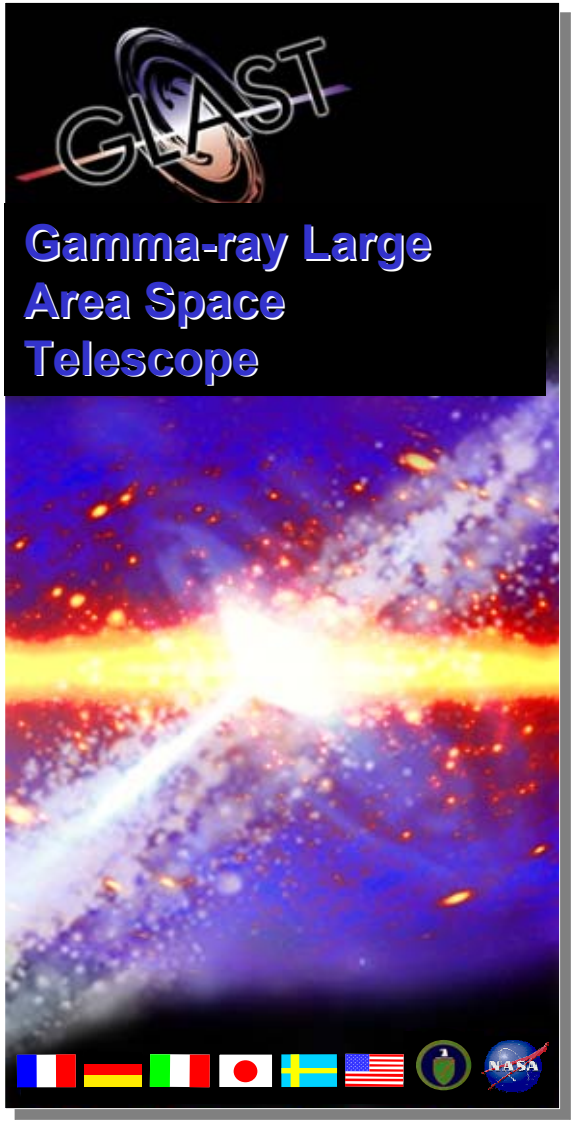

GLAST Large Area Telescope

Data Server: The ISOC Perspective

14 January 2005

Rob Cameron
rac@slac.stanford.edu
650-926-2989

Pre-launch and Early Orbit

- ISOC expects to support data archiving/serving throughout ground I&T and test phases
  - SLAC: LAT I&T, beam calibration
  - NRL: working with I&T to capture functional tests & TVAC data
  - SASS: capture of TVAC data; support GRTs, ETE tests, mission sims
  - KSC: limited testing: LPT, no science data?
- Early Orbit activities
  - LAT activation controlled from GSFC/MOC
  - Requirements are TBD for serving science data to LAT team in MOC

Flight Operations: housekeeping data

- LAT and spacecraft housekeeping must be monitored, trended and archived by ISOC
- ISOC staffing is nominally 5-day week, 12 hours/day
- LAT collaboration should be able to review LAT and spacecraft data on-site and off-site
  - Web-served telemetry display pages (ITOS/LATTE)
  - Trending and data retrieval: http://glast-ground/isoc/latrends/
  - More general data retrieval/display capabilities?
  - Some spacecraft HK might have restricted access
  - Need flexible access control system
- Housekeeping processing has much smaller processing demands than science data; will be performed by workstations in ISOC operations area

Flight Operations: science data

- See Seth's presentation for general details
- Quick-look Level 2 data:
  - GCN to be used for GRB updates
    - GLAST LAT page at GCN site? (c.f. Swift, HETE)
  - SLAC-hosted open web access to Level2 data for specific objects (e.g. AGN)
    - light curves, flux histories
    - time-resolved spectral fits?
    - limited data retrieval