GLAST Large Area Telescope

WBS 4.1.D SAS
GSFC Monthly Review

Period Ending: Feb 2005

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Jan Accomplishments

- **Flight Integration Support**
  - Released bulk of code on Dec 12 – applying tweaks
    - Upgrade to Root 4 – large file support
    - Upgrade to GEANT4 6.2 – to keep up with releases
  - Pipeline handled Xmas-break data fine
    - Many improvements to web front end
    - Tweaking perl back end
  - Still waiting for “real data” to start CCB process; we’re poised!
- **User Workbook going great guns**
  - More polishing on the New User introduction
- **data handling tools**
  - Held workshop at SLAC
  - Tony Johnson (SLAC) has taken over managing our data handling projects
    - First new system tests interface hit the street Jan 15, as promised.
    - Quickly improved the pipeline front end
  - J-P LeFèvre from Saclay has just arrived for 6-month sabbatical
    - Has java experience for data servers on 2 astro missions
- **Deecomplishments**
  - Trying to replace s/w developer who left in December – 12 applications so far
  - Lost 2nd infrastructure position to budget cuts; looking at help from SLAC; ex-BABAR person.
Upcoming for February

- I&T deliverables
  - Keep working on TKR Tot
  - Keep working on more sophisticated CAL calibrations based on what’s been learned during assembly at NRL
- Gino pipeline functioning
  - Keep testing and supporting it
  - Start assembling the next version – given input from workshop and experience from Gino
- TkrRecon upgrade
  - First major tag released 1/4
  - Ran 1M allGammas with pipeline. First look pretty good!
  - I&T now wants it, so we are tooling it up for them
    - Have to redo background rejection analysis, but not an issue for I&T
- CalRecon upgrade
  - TkrRecon finishing up
  - David Chamont (LLR/Paris) expects re-org by mid-Feb
  - “MIP-segment” finding ongoing at Montpellier
  - Energy corrections (low and high at LLR/Paris; Berrie Giebels, Philippe Bruel) – due early Feb
  - Response work should be done next week (peds, gains etc)
- Hire SciProg replacement
Timeline

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug
Cal Response/Calibs Cal Response/Calibs Part Deux Tkr Tower A?
EM2? Tkr Tower A in Grid?

SciTools checkup Continue Pipeline Debugging

Main Revamp TkrRecon Complete Revamp CalRecon Rejection Complete
Start Bkg

Code Freeze Start Evt Generation

Start next generation of pipeline; data server

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Issues & Concerns

- Thinking about DC2 – must juggle I&T support with DC schedule

  - Getting the background rejection done in a timely fashion will be hard. May need to start it in parallel with CalRecon revamp