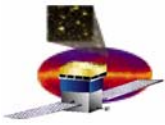**Gamma-ray Large Area Space Telescope**

GLAST Large Area Telescope

WBS 4.1.D SAS
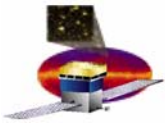## GSFC Monthly Review

Period Ending: Nov 2004

Richard Dubois
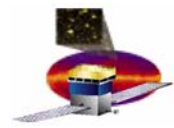**LAT SAS Subsystem Manager**

Nov Accomplishments

- **Flight Integration Support**
  - **Still the main focus!**
  - **Always preparing stable version of sim/recon**
    - **Still working on adopting next version (4) of Root. Some bumps in the road.**
  - **Discussions on implementing new requirements**
    - **eg how to deal with possibility of applying non-grid calibrations to modules**
  - **Interim ToT calibrations in the works**
    - **Until new TkrRecon arrives**
- **User Workbook going great guns**
  - **New User introduction nearing completion**
  - **Putting in how to test installations now**
- **Held external review of Java data handling tools proposal**
  - **Very positive reception**
  - **Now evaluating go/no-go on it. Largely an issue of manpower.**
  - **Including ISOC in the discussions**
- **Software developer in charge of Release Manager left group**
  - **Worked being picked up at Goddard; visiting next week to enhance the transition**
  - **Preparing a req to replace him**
- **DC2 Coordinating Committee started meeting**
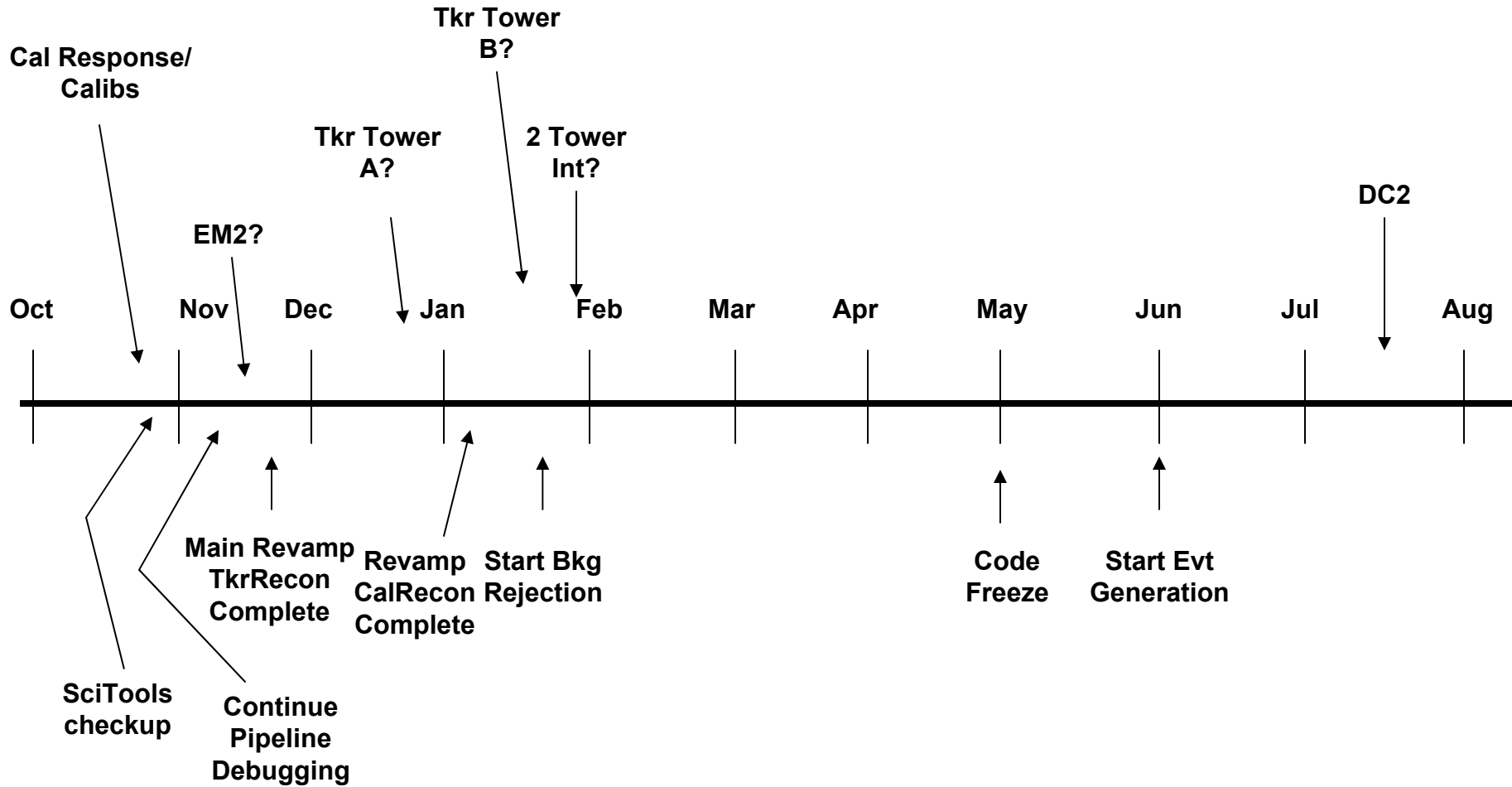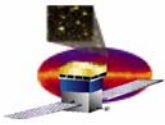 - **Reviewing scope of DC2, tasks involved and schedule**

Upcoming for December

- **I&T deliverables**
  - **Keep working on TKR Tot**
  - **Work on more sophisticated CAL calibrations based on what's been learned during assembly at NRL**
  - **Dry run for svac use of pipeline next week (hence our internal dry run this week)**
- **Gino pipeline functioning**
  - **Keep testing it**
  - **Debugging on I&T/svac needs.**
    - **SLAC batch system having troubles closing out log files in last week**
      - **working with SCS batch czar on it. No luck from their end. Building in workaround from our side now**
  - **Working on pipeline configuration ergonomics**
    - **upload from file completed**
    - **Editing from web in the works – including cloning from existing tasks**
    - **Improving pipeline web monitoring tools**
  - **About to try the MC for DC2 style generation to check it out**
- **TkrRecon upgrade**
  - **Well along now. Pattern recognition and fitting are done; vertexing still to go.**
  - **Triggered move to new GEANT4 version**
- **CalRecon upgrade (Nov-Jan probably)**
  - **Waiting for TkrRecon to finish up**
  - **David Chamont (LLR/Paris) visiting next week to discuss the changes**
  - **Add clustering and "MIP-segment" finding**
- **Send out req for Infrastructure position**

Timeline

Tkr Tower
B?

Cal Response/
Calibs

Tkr Tower
A?

2 Tower
Int?

DC2

EM2?

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug

Main Revamp
TkrRecon
Complete

Revamp
CalRecon
Complete

Start Bkg
Rejection

Code
Freeze

Start Evt
Generation

SciTools
checkup

Continue
Pipeline
Debugging
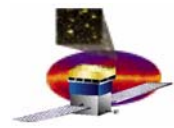
Key Milestones

- **Start of Flight Integration – Jan 2005**

- **File transfer test with GSSC/ISOC – Jan 2005 - delayed**

- **Mission GRT1 – Feb 2005 – delayed a few months**

- **DC2 – July 2005**

Issues & Concerns

- ❑ **I&T support has been heavy load**

    - ❑ **Hardware will start arriving sometime… all our pieces have to be in place.**

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