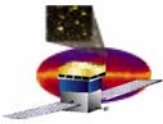**Gamma-ray Large Area Space Telescope**

GLAST Large Area Telescope

WBS 4.1.D SAS
GSFC Monthly Review

Period Ending: May 2005

Richard Dubois
LAT SAS Subsystem Manager
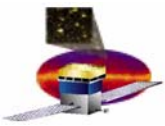
April Accomplishments

- **Flight Integration Support**
  - **Preparing for multi-tower calibrations**
  - **Pipeline stable**
    - **perl back-end work in test: managing db connections better; allow easier connections between task datasets prior to CCB approval**
    - **Archiving to tape should be done this week**
    - **Looking at methods to parallel process long data runs**
      - **Have multiple batch jobs reconstruct a single digi (raw data) file**
      - **All elements shown to work; now assemble it all**
  - **7 CCB actions and counting**
  - **Ordered 30 TB unix disk for I&T, MC, DC2 etc support. Should have it in 5 weeks.**

- **Infrastructure**
  - **Windows code builds now automated**
  - **Installer now supplies full loads for linux and windows**
  - **Friendly java gui almost ready (primarily for windows)**
  - **Studying JMS java messaging system as inter-communications tool for all the java apps.**
  - **Setting up role-based authentication service to control access/privileges on our web applications.**

- **LAT DataServer**
  - **Initial server in test. Analyze pipeline-produced ntuples, applying user cuts; deliver via ftp. Selection by (run, event) coming soon.**
    - **Want to connect this to eLog for querying I&T data**
  - **Testing concept of putting (ra, dec, energy, time) in relational db and querying that for astro analysis; 2nd query can apply cuts to full (merit) event data.**
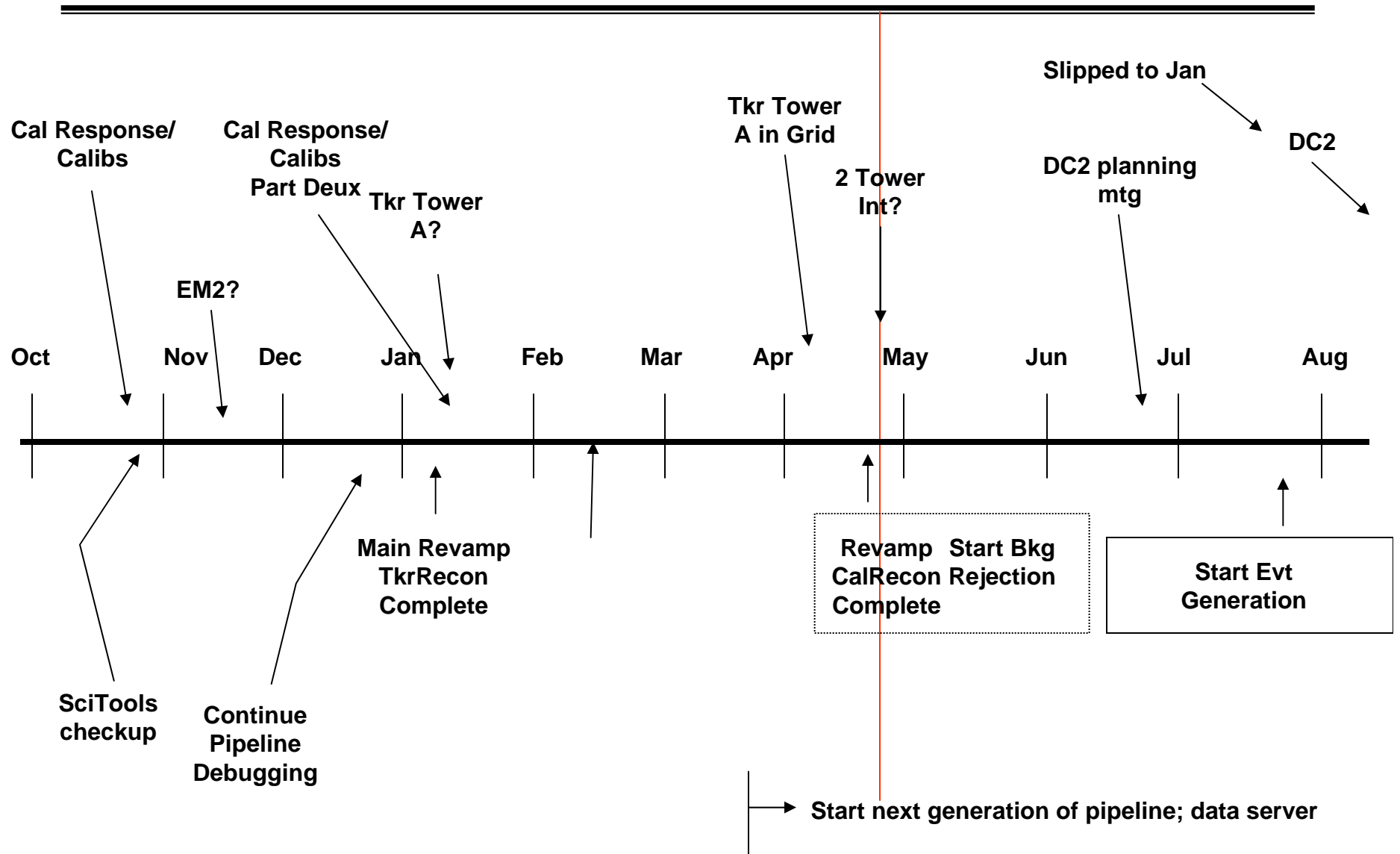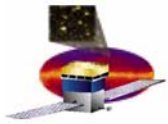
Upcoming for May

- **I&T deliverables**
  - **Keeping all the balls in the air ;-)**
  - **Smooth out calibrations process**
  - **Provide initial data server to allow culling of events from pipeline files to be delivered to users for event display etc.**
- **Gino pipeline functioning**
  - **Keep testing and supporting it**
  - **Start assembling the next version – given input from workshop and experience from Gino**
- **TkrRecon upgrade**
  - **tweaks**
- **CalRecon upgrade**
  - **Reviewing proposed data structures now in conjunction with TKR folks**
  - **Work on clustering just starting**
  - **"MIP-segment" finding ongoing at Montpellier**
  - **Energy corrections (low and high at LLR/Paris; Berrie Giebels, Philippe Bruel)**

Timeline

Cal Response/
Calibs

Cal Response/
Calibs
Part Deux

Tkr Tower
A?

Tkr Tower
A in Grid

2 Tower
Int?

Slipped to Jan

DC2

DC2 planning
mtg

EM2?

| Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |

SciTools
checkup

Continue
Pipeline
Debugging

Main Revamp
TkrRecon
Complete

Revamp
CalRecon
Complete

Start Bkg
Rejection

Start Evt
Generation

Start next generation of pipeline; data server

Issues & Concerns

❑ **Nothing urgent – the balls seem to be staying up in the air –**

at least for now!