GLAST

SWG Activities Summary
GUC Meeting June 2005

S. Ritz

Summary of SWG Activities

- SWG continues to have ~bi-monthly telecons (see next slide)
  - Josh Grindlay is ex-officio on SWG, attends all meetings. SWG briefed on GUC activities.
- Next F2F meeting 2 September (at Stanford). Joint LAT-SWG mini-symposium on Galactic Center Region on 1 September (see later slide), being organized by IDS Chuck Dermer.
- Topics addressed by SWG since last GUC meeting include:
  - configuration control of operations parameters affecting science (see later slides – GUC issue!)
  - burst trigger algorithms and parameters (Burst Working Group, BWG)
  - data latencies
  - year 1 LAT transient data release policy (awaiting GUC discussion)
  - BWG review of GBM calibration, trigger, and response functions
  - on-orbit observatory alignment calibration observations

- Note: no recent Science Requirements change requests

Recent SWG Telecon Agenda

GLAST SWG Telecon #21, 2 June 2005
Draft Agenda, V2
All times are Eastern U.S. time

Time	Duration		
11:00	00:05	Welcome, Agenda Review, Minutes, Announcements	S. Ritz
11:05	00:05	News from Swift	N. Gehrels
11:10	00:10	Mission report	K. Grady
11:20	00:20	IDS reports	Dermer, Dingus, Pohl, Thorsett
11:40	00:10	News from NASA and other agencies	R. Harnden et al
11:50	00:10	LAT team report, issues	P. Michelson
12:00	00:10	GBM team report, issues	C. Meegan, G. Lichti
12:10	00:10	E/PO report	L. Cominsky
12:20	00:10	GUC meeting agenda, plans	J. Grindlay
12:30	00:10	September 1 Galactic Center Region mini-symposium program	C. Dermer
12:40	00:10	September 2 meeting agenda items	S. Ritz, all
12:50	00:10	AOB, action items	
13:00		**ADJOURN -- Next meeting: 2 September @ Stanford**	

Galactic Center Mini-symposium Program Outline

GLAST Mini-symposium on the Galactic Center Region
Sept. 1, 2005
SLAC/Stanford

0900	15	Opening and Introduction
0915	25+5	The Massive Black Hole at the Center of the Galaxy
0945	25+5	Sgr A* and Its Environment
1015	20+5	Chandra Obs. of the GC region
1045		Break
1115	20+5	Advection- and Outflow-Dominated Accretion
1140	20+5	INTEGRAL Obs. of the GC region
1205	20+5	HESS/IACT Obs. of the GC region
1230-1400		Lunch
1400	25+5	EGRET, GLAST and the GC
1430	25+5	The GC: Observational and Theoretical Issues
1500	15+5	Jet Models for Sgr A*
1520	15+5	Black-Hole Plerion
1540-1610		Break
1610	15+5	Dark Matter
1630	15+5	Modeling Sgr A*
1650	15+5	The GC Radio/High-Energy Environment
1710	25+5	Gamma rays from Accreting Black Holes: from Sgr A* to High Redshift
1740		Closing remarks, etc.

being organized by Chuck Dermer

The following four slides are from SWG discussion of Control of Ops Parameters Affecting Science

Ops Parameters and Configuration Control

- There are many operations parameters that affect science.
- Who is responsible and how are the parameters controlled?
- This involves all the mission elements:
  - instruments (I(S)OCs, instrument science teams)
  - project scientists, GSSC
  - users committee, swg
    - users committee will also discuss this topic at the spring meeting
  - GIs in their proposals, potentially

- Start discussion today to surface issues
  - no decisions or specific proposals today, but a framework for discussion
  - [more fun than discussing data rights]

Considerations

- Year 1 vs subsequent years
  - during year 1, instrument teams need flexibility to control and understand their instruments efficiently, yet the parameter selections will affect the first-year data set released to the public.
  - in subsequent years, changes should be less frequent.

- There are categories of parameters, with overlapping interests
  - onboard instrument parameters, *e.g.*,
    - zero suppression thresholds, hardware and software trigger thresholds, onboard science algorithm parameters
  - observatory parameters, *e.g.*,
    - earth avoidance angles, sky survey parameters, repoint dwell time
  - ground processing parameters

- Some parameters must be broadly visible but are not generally under group control. Examples include
  - instrument SAA boundaries (instrument teams define)
  - data dump times (mission defines)

Responsibilities

- For discussion:
  - **let the element (LAT, GBM, mission) with the primary expertise take responsibility for recommending and archiving the parameters.** Mission is responsible to provide web-accessible list of (or pointers to) all the parameters, their definitions, and their values over time.
  - **GUC and SWG advise on overall policy** (which parameters are controlled, target ranges, process).
  - **Science Operations Oversight Group (SOOG) meets ~weekly to**
    - review weekly performance and Ops issues
    - approve changes on limited controlled parameters list; be informed about all the others
    - in many cases, particularly early in the mission, the controlled values will be managed in a range approved by the SOOG: the responsible element will have freedom to change the parameter value within that range without CCR action.
  - in year 1, SOOG consists of
    - Project Scientist or Deputy (chair)
    - Two instrument PIs or their delegates
    - GUC chair or his/her delegate
    - GSSC lead
    - MOC lead
    - 2 Instrument I(S)OC leads

Other issues/questions

- How (and how much) to connect data products with parameter values and configuration versions?
- Other issues?

- STATUS: after discussion with GUC, Steve will work with the instrument teams and GLAST project discipline engineers to compile a proposed parameter list.