PDMP Status

David Band (GSSC—GSFC/UMBC)

Overview

- **What is the PDMP?**
  - Document describing the flow and disposition of data in the project
  - Constitutes an agreement between ground elements
  - While a Project document, must satisfy NASA HQ expectations
  - Will include official data policy statement for GLAST
- **Complications**
  - Ground system is evolving rapidly (e.g., Ku band)
  - Overlaps other documents (e.g., ICDs, Ground System Operations Concept Document)

Development Status

- Text includes:
  - Current data policy
  - Ku band as primary telemetry downlink
  - No project-supported mirror sites
- Deficiencies include:
  - Data products table is incomplete (numbering, volume)—an ICD will be developed over the next few months
  - Table of analysis tools will be revised
  - Communications (dedicated lines, encryption over the internet, sockets?) between ground elements is missing
- Configuration management—the document has not been baselined or signed, but is being used to demonstrate system development.
- Current draft can be found at:

  http://glast.gsfc.nasa.gov/ssc/dev/documents/PDMP.doc

Reviews

- Multiple drafts have been circulated to the GSSC, the ground system team and the SWG. Comments and corrections have been helpful, but there have been few fundamental objections, except that some think the data policy is too loose.
- Drafts have circulated at NASA HQ. Alan Smale, NASA's PDMP-keeper, has reviewed it. He felt the analysis environment should be described (implemented in current draft). Some items (e.g., data products) will be covered in other documents. The description of each ground system's role should EVENTUALLY be beefed up.
- The HEASARC has major objections on some issues (e.g., distributing the photon database over a multi-node system) the GSSC negotiated with the HEASARC (!?!). We are attempting to defuse these objections through text clarification and discussions.

Issues

- Our PDMP is a policy statement of data management, with details (e.g., file formats) relegated to other documents. Other PDMPs (e.g., Astro-E2) include details.
- What do we expect of GIs using LAT data during Phase 1?
- Should more be said about Key Projects? For example, can they be multi-year?
- During Phase 1 the LIOC will monitor ~20 sources for variability. Will this continue into Phase 2, or should the GSSC pick this up?
- We propose that users request TOO observations through the GSSC website; this is done for RXTE.
- Should the LIOC/GSSC monitoring of sources trigger TOOs (e.g., as requested by a successful GI proposal)?
- The ground system is expecting ~1 TOO and ~1 burst repoint per month. Is this reasonable?

Issues, cont.

- When in Phase 1 does the GSSC start getting Level 1 data? We do not make this data public until Phase 2, and early in Phase 1 all the data will probably be reprocessed a few times. However, we need to ensure that a) the communication links operate properly before Phase 2, and b) there is enough time to transfer the data.