

Science Tools Update, May 13, 2008

Science Tools Working Group

We won't have a meeting this week this week; there's not a lot of new news and the Catalog group, Service Challenge Steering Committee, and the Cosmic-Ray Electrons groups will be putting the 8-10 am Pacific time slot to good use. The GSSC has received a lot of feedback from GUG members who participated in the Beta Test; this may be a topic at the next Science Tools meeting. Surprise users are reporting [success](#) with the Science Tools.

The current version of the Science Tools is **v9r5p3**. Here are the [changes](#) since v9r5p2. The noteworthy one is that Jim has included CALDB files with v1 of the Pass 6 IRFs, the update being Riccardo's improvement to the fitting of the energy redistribution profiles.

Data products: No news

Databases and related utilities

No news

Likelihood analysis

No news

GRB tools

No news

Pulsar tools

From Masa: "James and I are still working on improving the time handling classes. It has been slower than usual because I have been busy with other things." This is toward the end of handling multiple timing models for binary pulsars

Observation simulation

No news

User interface and infrastructure (& utilities)

Toby has updated astro package - in this version "the EarthCoordinate constructor checks the size of the position vector, so that it can be in m (as demanded by GLAST) or km (as returned by the ephemeris). After it computes the actual altitude, it throws an exception if it is not in the range 500-600 km. I don't know what the actual range of validity is, but that should be OK for GLAST." This addresses a problem with processing some FT2 files in recent versions of the Science Tools; Analia Cillis and Thierry Reposeur independently came up against the problem, which Jim tracked to the astro package. The change was made May 12, and is only in LATEST builds so far.

Source Catalog

Met last week. No technical topics - at least not algorithms - were discussed.