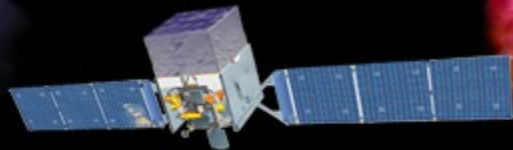




FSSC Data & Software Status

Dave Davis
FSSC Archive Scientist



FSSC Data Status

▶ ***LAT Data Server***

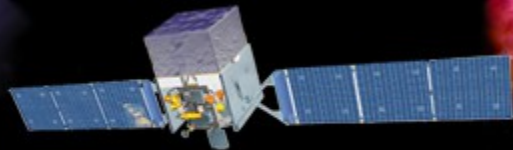
- *Currently Serving P7V6 data*
- *Average of 43 queries/day*
- *Preparing to serve pass 7a, fully reprocessed data*

▶ ***Additional LAT data***

- *LAT LLE data products available via BROWSE*
- *A smaller (less memory intensive) LAT diffuse model*

▶ ***GBM***

- *Preparing for the transition to full time GBM TTE mode*



Science Tools Status

► *Science Tools Release for Spring 2012*

- *Based on LAT Team ST v9r27p1*
- *gttsmap tool will create TS maps for binned data*
- *Improved integration for gtdiffrsp*
- *bug-fixes for energy dispersion integration in likelihood*
- *gtbkg now computes rates (not counts) and fills the stat_err column*
- *The exposure calculations now use DSS keyword info on the CONVERSION_TYPE selection by gtselect to determine whether front, back (or both) should be used*
- *Updated GtApp to make gtexpcube2 callable from gt_apps.py*
- *Includes support for the new bitmask classification*
- *The P7_MC (Monte Carlo) IRF's are incorporated*



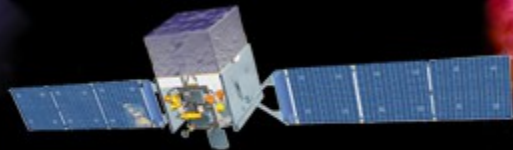
Science Tools Status

► *Updated / New products available*

- *The spacecraft file now includes the position of the Sun for filtering*
- *The data quality flag in the P7 V6 data has been enhanced to include information on short duration events e.g. solar flares*
- *The earth limb template for the 2nd Fermi source catalog is now available for use*

► *Software will continue support for*

- *gcc 4.+ compilers (e.g. Ubuntu 10,11+, Fedora 15,16, SL 5 & 6)*
- *MAC OSX 10.6 (SnowLeopard), (OSX 10.7) Lion*
- *Testing for Mountain Lion will start soon*



Future Work

- ▶ *Preparations for pass 7 data (full reprocessing)*
 - *Standard test scripts*
 - *Testing by science staff*
- ▶ *Science Tools updates (next release)*
 - *Inclusion of HEALPix support in gtbins*
 - *Better memory management in gtsrcmaps*
 - *Added Solar system tools*
 - *gtexpcubesun*
 - *gtltcubesun*
 - *gtexphsun*
 - *Updated Earth magnetic field model to IGRF-11*