

THEMIS and ARTEMIS Science Data Analysis Software Monthly Accomplishments

November 2012

THEMIS and ARTEMIS Science Data Analysis Software (TDAS) - Post v7.0

1. The following enhancements were made to the THEMIS/ARTEMIS data analysis software:

- TDAS 7.01 released: includes updates to SPDF URL structures for certain data sets
- "Calc" module (embedded mini-language) now uses better plotting defaults when creating TPLOT variable outputs.
- Several TDAS GUI panels updated to include more intuitive "Apply to All" functionality for changing multiple panels, pages, or other display elements.
- Added units and coordinate systems to output variables in THM_PART_MOMENTS.
- Added fix to file_http_copy.pro that allows full links (starting with 'http') to be processed correctly while globbing.
- Fixed problem in Level 2 FFT CDF generation procedure caused by support data that does not have the same number of time elements as field data.
- Allowed 'units' keyword to be passed into THM_PART_MOMENTS2. This allows for angular distributions in counts, which allows the estimation of uncertainties.

THEMIS/ARTEMIS Web Site

1. Updated FGM processing history
2. "Instruments" pages updated to include links to detailed configuration history for FBK and FFT data types.
3. Updated GMAG detailed station data inventory
4. Updated THEMIS/ARTEMIS publications, and added 2 SWT events

THEMIS and ARTEMIS Data Products

1. Reprocessed FFT L2 CDFs for entire mission, to correct mismatched time and data array sizes.
2. All Sky Imager (ASI) products are available as follows:
 - a. Thumbnail cdf files and overview plots are available through 2012/11/30. Thumbnail movies are complete through 2012/10/31.
 - b. Full resolution raw data is available and complete for 2007 through 2011. 2012 complete through 2012/04/01. Full resolution CDFs complete through 2012/04/01, keograms are available and complete through 2012/10/31.
 - c. Web site - Mosaics are up to date and available through 2012/10/31.