

# THEMIS and ARTEMIS Science Data Analysis Software Monthly Accomplishments

## January 2013

### THEMIS and ARTEMIS Science Data Analysis Software (TDAS) - Post v7.0.1

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

- Eclipse spin model corrections are now correctly applied to the ground-generated tensor moments.
- A “terms of use” dialog is now available as a SPEDAS API function. Plugin authors can use this function to display a message on the IDL console, or as a popup in the GUI, either once per IDL session or once per plugin installation, rather than each time that plugin's load routine is invoked.
- A SPEDAS API for adding new plugins to the GUI “Load Data” panel has been implemented. New tabs can now be added to the “Load Data” panel by editing a simple plain text configuration file, rather than modifying IDL code.
- The IUGONET plugin has been added to the bleeding edge zip file.
- A new load routine `thm_load_carisma_gmag` has been added, to retrieve data directly from the CARISMA site.
- It is now possible to delete variables directly from the GUI “Data Processing” panel.
- An error that occurred when the GUI page size is set to a value that is too large for IDL to render is now handled more gracefully.
- An array indexing bug in `dpwrspc.pro` and `pwrspc.pro` has been fixed.
- `thm_cal_fit` has been modified to remove NaN values from calibrated spin fit data.

### THEMIS/ARTEMIS Web Site

1. Configuration history for the SST, ESA, FBK, and FFT data types can be accessed via the “Instruments” page at <http://themis.ssl.berkeley.edu/instruments.shtml>

### THEMIS and ARTEMIS Data Products

1. Reprocessed FGM L2 CDFs with updated calibration parameters (THB from 2012-09-01, THC from 2012-08-01).
2. Reprocessed STATE VO3 CDFs with updated spin axis attitude and spin phase corrections for THA, THD, and THE, 2012-07-01 through 2012-11-30.
3. All Sky Imager (ASI) products are available as follows:
  - a. Thumbnail cdf files and overview plots are available through 2012/01/31. Thumbnail movies are complete through 2012/12/31.
  - b. Full resolution raw data is available and complete for 2007 through 2011. 2012 complete through 2012/09/01. Full resolution CDFs complete through 2012/09/01, keograms are available and complete through 2012/12/31.
  - c. Web site - Mosaics are up to date and available through 2012/12/31.