THEMIS and ARTEMIS Science Data Analysis Software Monthly Accomplishments
October 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:

- Added routines to load and save ASCII formatted data files
- Minor updates to GUI window titles and labels to be consistent with menu items
- Tab key navigation now supported in most GUI panels
- Replaced GUI panel options "Apply to all panels" checkbox with a new button, and slightly changed behavior to be more intuitive (e.g. panel titles now must be set individually).
- Fixed SST ground-processed moment calculation routine to remove 1.5 second time offset
- Fixed a bug in specplot data gap handling code so that all time intervals are plotted with consistent z-range scaling.

THEMIS/ARTEMIS Web Site

1. Updated SST processing history
2. Updated EFI "Sources of non-ideal performance" caveats
3. New GMAG detailed station data inventory
4. Updated THEMIS/ARTEMIS publications, ARTEMIS nuggets, and THEMIS news highlight on V. Sergeev's recent GRL paper.

THEMIS and ARTEMIS Data Products

1. Reprocessed FGM L2 CDFs from mid-August 2012 with updated calibration files
2. Reprocessed SST L2 CDFs for entire mission to correct a 1.5 second time offset in ground-processed moments.
3. All Sky Imager (ASI) products are available as follows:
    a. Thumbnail cdf files and overview plots are available through 10/31/2012. Thumbnail movies are complete through 9/30/2012.
    b. Full resolution raw data is available and complete for 2007 through 12/2011. 2012 complete through 4/01/2012. Full resolution CDFs complete through 4/01/2012, keograms are available and complete through 10/31/2012.
    c. Web site - Mosaics are up to date and available through 10/25/2012.