THEMIS and ARTEMIS Science Data Analysis Software Monthly Accomplishments
November 2011

THEMIS and ARTEMIS Science Data Analysis Software (TDAS) - Post v6.0
1. The following enhancements were made to the THEMIS/ARTEMIS Graphical User Interface (GUI):

- The manage/import data panel in the GUI now allows tplot variables to be renamed before importing.
- The Load Data panels for ASI and GMAG now autoselect datatype "*", since there is only one valid data type.
- The GUI will now automatically load support data (lunar position and attitude) for Earth-Moon coordinate transforms (GSE to SSE, SSE to SEL).
- Error and informational messages should be easier for users to see and read.
- The “lazy labels” option in the GUI now works with stacked labels. Some defaults were also changed to yield the most desirable behavior.

THEMIS and ARTEMIS Data Products
1. The location of the REDR GMAG station was incorrectly listed in the CDF. This has been fixed, and the CDFs have been reprocessed.
2. All Sky Imager (ASI) products are available as follows:
   a. L1 cdf’s and Mosaics are up to date and available through 11/31/2011.
   c. Full resolution raw data is available and complete for 2007-2010. 2011 complete through April 2011. Full resolution cdf’s and keograms are available and complete for 2007-2010. 2011 complete through April 2011.
   d. Web site - Mosaics and movies reprocessed for 2007-2010 seasons. They are up to date and available through 12/2010.

THEMIS and ARTEMIS Documentation
1. The TDAS developers guide has been revised (11/28/2011) to include more examples, and additional information about error handling and QA scripts. The updated document can be found at: ftp://apollo.ssl.berkeley.edu/pub/THEMIS/3 Ground Systems/3.2 Science Operations/Science Operations Documents/

THEMIS Web Site
1. Overview and SST plots have been reprocessed for the entire mission, to apply automated SST sun contamination removal.

THEMIS and ARTEMIS TDAS Trainings
1. The bi-annual THEMIS Data Analysis Software (TDAS) training presentation was given at the Mini-GEM conference in San Francisco on December 4th, 2011. In addition to the regular training session, several groups discussed the extensibility of TDAS software to their missions. This included presenters from ERG-EFW, RBSP, and IUGONET.