

THEMIS and ARTEMIS Science Data Analysis Software Monthly Accomplishments

June 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:

- Velocity slices enhancements
 - a. User may specify formatting for X & Y axis annotations.
 - b. The number of X & Y axis minor ticks can now be specified.
 - c. Multiple slices plotted with fixed range (GUI only).
- Improved notifications for invalid input to command line load routines.
- Expanded ability of file download routine to accommodate data from other missions. Files from multiple web sources can now be downloaded simultaneously.

THEMIS and ARTEMIS Data Products

1. All probes have been updated with new SST angle maps, effectively reducing sun contamination for reduced mode data.
2. Reprocessed L2 FGM data for full mission, with new calibration data.
3. A new mirror site at UCLA is available, and can be accessed via <http://themis-data.igpp.ucla.edu/>
4. All Sky Imager (ASI) products are available as follows:
 - a. Thumbnail cdf files and overview plots are available through 6/30/2012. Thumbnail movies are available through 4/30/2011.
 - b. Full resolution raw data is available and complete for 2007-2011. 2011 complete through April 2011. Full resolution cdf's and keograms are available and complete for 2007-2011.
 - c. Web site - Mosaics are up to date and available through 12/2011.

THEMIS and ARTEMIS TDAS Presentation

1. A TDAS presentation was given at the GEM workshop in Snowmass, CO on June 21st, 2012. Several groups discussed the extensibility of TDAS software to their missions, including presenters from ERG, RBSP-EFW, and IUGONET. Following the presentations, a group discussion/Q&A followed, providing the TDAS developers with feedback about how TDAS could be made more flexible and extensible to accommodate other projects wishing to adopt or contribute to TDAS.