

# **THEMIS and ARTEMIS Science Data Analysis Software Monthly Accomplishments**

## **June 2013**

### THEMIS and ARTEMIS Science Data Analysis Software (TDAS) - Post v8.0

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

- More robust parsing of HTML index pages and improved handling of globbing characters ('\*', '?') in file\_http\_copy.
- The GUI "Export Image" feature now uses the operating system's file picker rather than a custom dialog.
- An option for hexadecimal numeric formatting has been added to the GUI legend options and axis options.
- A new tab for loading geomagnetic indices has been added to the GUI "Load Data" window.
- A minor issue with the GUI loaded data tree has been fixed; metadata should now be displayed in the context menu for all "load data" tabs.
- Some minor bugs in the TDAS implementation of the Fairfield neutral sheet model have been fixed.

### THEMIS and ARTEMIS Data Products

1. L1 State CDFs were reprocessed for most of the mission to incorporate updated eclipse spin model parameters.
2. All Sky Imager (ASI) products are available as follows:
  - a. Thumbnail cdf files and overview plots are available through 2013/06/30. Thumbnail movies are available through 2013/05/31.
  - b. Full resolution raw data is available and complete for 2007-2012. Full resolution CDFs are complete through 2013/03/31. Keograms are available and complete through 2013/06/30.
  - c. Web site - Mosaics are up to date and available through 2013/05/31.

### Trainings and Conference Presentations

1. The TDAS team gave two presentations at the 2013 GEM conference in Snowmass, CO:
  - a. A TDAS tutorial, installation clinic, and developer Q&A was presented by Patrick Cruce, to about 15 attendees.
  - b. A SPEDAS plugin development workshop and discussion was hosted by Jim Lewis and Vassilis Angelopoulos, with about 10 participants.