

## THEMIS Science Data Analysis Software Monthly Accomplishments – March 2010

### THEMIS Science Data Analysis Software (TDAS) - v5.20

The THEMIS Project released Version 5.20 of the THEMIS Science Data Analysis Software. Version 5.20 contains New Features and Enhancements to the THEMIS Command Line and Graphical Users Interface (GUI) Software as well as to the THEMIS Data Products and Web Site.

To review the New Features and Enhancements for the following categories click on the following link:

[ftp://apollo.ssl.berkeley.edu/pub/THEMIS/3 Ground Systems/3.2 Science Operations/Science Operations Documents/Science Software Data Analysis Releases/v5.20](ftp://apollo.ssl.berkeley.edu/pub/THEMIS/3_Ground_Systems/3.2_Science_Operations/Science_Operations_Documents/Science_Software_Data_Analysis_Releases/v5.20)

- THEMIS Science Data Analysis Software - Command Line Software
- THEMIS Science Data Analysis Software - GUI Software
- THEMIS Data Products and Web Site

### THEMIS Tips of the Month (Pearls of Wisdom)

The “THEMIS Tips of the Month” is a new feature of the monthly Accomplishments Report. This month the following questions from a THEMIS user are answered:

1. “Are there any differences between the L1 files (in other words the files = ending in \_v01, \_v02, and \_v03) for the STATE data?”
2. When THEMIS software compares the local (downloaded) data to the data online to see if there is an updated version, does it look for updated filename (increased version number) or does it check the date of the files? Or both?  
To read the responses please select the following url:

[ftp://apollo.ssl.berkeley.edu/pub/THEMIS/3 Ground Systems/3.2 Science Operations/Science Operations Documents/THEMIS Tips of the Month](ftp://apollo.ssl.berkeley.edu/pub/THEMIS/3_Ground_Systems/3.2_Science_Operations/Science_Operations_Documents/THEMIS_Tips_of_the_Month)

### THEMIS Science Data Analysis Software (TDAS) - Post v5.2.0

*All the following enhancements will be included in an incremental release during the next month (v5.21)*

1. TDAS bug reported by F. Plaschke, crash when loading multiple days of L1 STATE data for a particular time interval, has been fixed.
2. The FGM load procedure has been revised with the following two enhancements:
  - a. The default level for loading FGM data has been changed to L1 (from L2)
  - b. The auto-loading of STATE data has been added
3. Robust error checking has been added to the THEMIS GUI coordinate transformations.
4. Added "yes to all", "no to all" options to many GUI data processing panels.
5. Provided option to subset all panels with the GUI subset-marker feature.

### THEMIS Web

1. Data Processing History web pages have been created for EFI, SCM, SST, FIT and FBK.
2. A Software Developers Guidelines document has been created in advance of the Developers Guide. It can be accessed by selecting “Developers” on the “Software” drop down menu. To review select the following url:  
[http://themis.ssl.berkeley.edu/software\\_dev.shtml](http://themis.ssl.berkeley.edu/software_dev.shtml)

### THEMIS Data Products

1. The THEMIS L2 cdfs for ESA, MOM, FIT, FGM, for the full mission, were reprocessed due to changes in the Spacecraft attitude calculations.

### THEMIS Trainings

1. Presented the THEMIS Science Data Analysis Software (TDAS) and Data Processing to teams from the ERG and ORBITALS missions regarding possible adoption of the THEMIS TDAS concept and Software into their respective missions.