THEMIS Science Data Analysis Software Monthly Accomplishments – June 2008

THEMIS Trainings

1. A THEMIS Software Training and Clinic was held at GEM workshop in Utah for 40-50 people.

THEMIS Web

1. ASI mosaic movies are produced for viewing for December 2007 to April 2008 were added to the ASI data website as well as to the data download site.
2. All overview plots for the web site are replaced with overviews from full resolution data where possible. 2007 is complete.

THEMIS Data Products

1. Data mirror at DARTS/ISAS in Japan is operational. Includes raw probe data through L2 CDF data products.
2. FGM L2 cdf's have been reprocessed for the full mission with new calibration files.
3. All asf-cdf-files and ask-cdf files are complete for 2007 and up to date as much as possible for 2008 covering the whole tail season. Just a few stations are still missing.

THEMIS Science Data Analysis Software – TDAS (Bleeding Edge Distribution - post v4.00)

1. The following enhancements have been made to the Graphical User Interface (GUI):
    a. Deflag window now uses radio for ‘linear’ and ‘repeat’ selections rather than the text windows
    b. Added warning messages (pop-up window) whenever the user deletes a tplot variable, clears the history window, or requests over view plots
    c. Fixed tplot_ascii so data doesn’t run together.
2. Several options have been added to thm_part_moments, thm_part_moments2, and thm_part_getspec, to remove sun contamination from SST data. A crib: themis/examples/thm_crib_sst_contamination.pro shows examples of usage.
3. Added thm_probe_num.pro, a routine that converts probe name into number and probe number into name.
4. The following enhancements were made to thm_cal_fit:
    a. Program no longer duplicates the onboard spin-independent offset subtraction for the EFS datatype
    b. Program now has the NO_CAL keyword which effectively sets the boom shorting factors to one and the spin-dependent offsets to zero
    c. Program now gets the NO_CAL keyword to passed through from thm_cal_load.