THEMIS and ARTEMIS Science Data Analysis Software Monthly Accomplishments
April - May, 2011

THEMIS and ARTEMIS Science Data Analysis Software (TDAS) - Release v6.0
The THEMIS and ARTEMIS Software team released v6.0 of the TDAS Software to the Science Data Analysis community.

THEMIS and ARTEMIS Science Data Analysis Software (TDAS) - Post v6.0
1. Code has been added to calculate l-shell values based off spacecraft position.
2. The 2d Slices program has added the following capabilities:
   a) ESA/SST data can now be combined
   b) Contamination/background removal options added
3. Added labels and bitplot options for thm_state_roi (region of interest) variables.
4. Added erange option to thm_part_moments, added get_error keyword to thm_part_moments and moments_3d. This allows the estimation of uncertainties in moments.
5. A number of new keywords have been added to thm_load_gmag to load magnetometers from U of Alaska, MAACS and Greenland networks. See thm_sites, tgo_sites, dtu_sites, ua_sites, maccs_sites. The relevant cribs (thm_crib_gmag, thm_crib_greenland_gmag, thm_crib_maccs_gmag) have been updated to illustrate the use of these keywords.

THEMIS and ARTEMIS Data Products
1. Reprocessed the full mission for ESA to correct the solarwind mode flags.
2. All Sky Imager (ASI) products are available as follows:
   a. L1 cdf’s and Mosaics are up to date and available through 4/30/2011.
   b. Thumbnail cdf files and overview plots are available through 4/30/2011.
      Thumbnail movies are available through 4/30/2010.
      Full resolution cdf’s and keograms are available and complete for 2007-2009. 2010 complete through April 2010.
   d. Web site Mosaics and Movies have been reprocessed for 2007/2008 and 2008/2009 seasons. They are up to date and available through April 2010.

THEMIS Web Site
1. Ten new THEMIS nuggets have been added.
2. The publications lists for 2010/11 have been revised with new articles and the pdf links have been updated from “online only - in press” to “full published final” pdf links.
3. The list of ASI and GMAG sites and their longitudes and latitudes has been updated.
4. The THEMIS/ARTEMIS online help request form has been modified to send the submitter an email notification to confirm their request was submitted.

Conferences, Collaboration and Trainings
1. THEMIS team members supported ERG and IUGONET project teams with the release of their respective plug-in software to THEMIS/ARTEMIS TDAS v6.0 software.