

## Software Task Priorities (In Play / In the Queue) - 8/15/07

Ken

1. \_dot0 and \_0 for subspin resolution (for John - tbd)
2. SCM Reconciliation (awaiting SCM code from SCM Team)
2. Add code to clean up the power ripples, and the 8/32Hz noise for SCM (If not already done)
3. implementation of the removal of the spin-independent and -dependent offsets (for John - tbd)
4. Themis SCM CAL File Processing
5. Themis Developers Guide
6. Themis System Administrators Guide

Jim L.

1. IDPU very busy, packet time stamps off 1 sec (Create QA version for Scientist verification).
2. Correct Spin period, Spin Plane, sun pulse data. Doc update (for Vassilis - tbd)
2. Spin model does not capture slow drifts in spin rate.
3. Separate file Latest State version (for Jim McFadden - tbd)
3. Adjustments to EFI timing, FBK and FFT (for John - tbd).
4. ESA Sweep Modes put into Moments L1 CDF (For Davin)
5. When FGM range changes in the middle of a packet. Post Proc maybe a solution to eliminate the spike.
6. Unexpected transfer frames time matched packet time yet in the past.
7. Spin Model L1 CDF.
8. L1 File definitions Document

Jim M.

1. Sort out with Tim Interface Issues with production (l2gen issues, AE update Pat's working)
2. Default for Load FIT and MOM to be L1(for Davin)
2. High-pass filter function.(for Vassilis)
3. FIT/MOM (Onboard) in separate L2 cdf's (for Vassilis)
4. GUI Mods
  - a. thm\_ui\_config bug found by Davin
  - b. No dialogue box appears for save ascii, no file location in msg box
  - c. See email with history file ...231920 abort.
  - d. button for postscripts (for Stephen Mende)
  - e. Upper flatfile button (for Vassilis, work with Kate / UCLA Splash)
5. GUI Mods
  - f. current plot window - tell you which one (for UCLA)
  - g. Save Ascii - fix precision, add header (with Pat for UCLA)
  - h. Label S/C Position button (GSE or GSN - default) (for UCLA)
  - i. De-Gap widget add units
  - j. DP - Delete or Overview Plot or Clear History - warning message
  - k. Long Variable Names truncated in IDL-D
  - l. Lower flatfile button (for Vassilis / Chris Russell)

Pat

1. AE index in the overview plots-revision and reprocessing (for Andreas - autoscaling)
2. Generalized vector data rotation routine (for Vassilis - tbd)
  - field aligned coordinate transformations - done
  - minimum variance analysis - in process
  - model aligned coordinates
  - boundary normal coordinates
3. Tsyganenko model in IDL
4. 5 probe overview (Tohban scripts) on the web
5. thm\_load\_state should accept the coordinate keyword
6. invalid inputs to the version keyword

Bryan

1. upgrade thm\_load to work with probe assignments
2. make a b/w colormap for a single tplot panel.
3. move functionality of thm\_load\_state2 into thm\_load\_state and delete thm\_load\_state2
3. Shadow Indicator (for Vassilis - using functionality in ...load\_state2 and tplot roi)
4. Multiple enhancements concerning keywords, valid\_names and thm\_load routines

Christine

1. Create Angular spectrograms (Christine for Davin - tbd)

UCLA

1. Clean-up the power ripples from the FGM data.
2. Geo and SM Coord Transforms

#### Software Tasks (Unprioritized)

1. (From Ken) For proper tplotting there really should be an array of NaNs thrown into a data point inserted somewhere into that 8 hour data gap. I wouldn't go doing this w/o John's blessing, though. He may already have an idea about how to deal with that. (To be discussed)