

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes
Jim McFadden						
4118	Vassilis to talk to Jim McFadden concerning background removal code of electrons and ions that Vassilis has developed.	8/23/10	Vassilis	0	Vassilis	Vassilis to send code to Jim McFadden. Visiting graduate student will review with Jim. From Vassilis: Revised code to do subtraction with keywords is included. They work best for inner magnetosphere ions if keywords are set to: bgnd_type='anode', bgnd_npoints=3, bgnd_scale=1.5 the bgnd_type nominal is 'omni' but if one really cares about details, when the background is anisotropic the keyword 'anode' which does anode-dependent background subtraction responds better. The 'bgnd_points' removes the average of the lowest N points rather than the minimum only. The bgnd_scale allows artificial scaling of the bgnd value, to avoid possible underestimate from noise fluctuations.
3090	Then one needs to correct the particle distributions to be introduced in the same orientation. I.e., should use the corrected spinphase upon being introduced (on the fly). This means the particle loading software needs to read the above difference between corrected and uncorrected spinphase, and apply a rotation to the distribution functions upon reading. This should be done with a keyword first, and routinely when we get into orbit (by which time the shadow spinphase determinations will hopefully be automated). I think McFadden is the one to do this but he can also assign it.	2/22/10	Vassilis	1	Jim McFadden	3089 is prerequisite - Vassilis 4/23: un-rotate the V's from the dphi and the onboard spinphase) and compare with the ground-processed V from the distribution functions. ESA and MOM code to use new features of spin model. In progress and being done in conjunction with 3099f. Jim Lewis needs to review spinmodel2 and thm_load_esa_packet to see how to incorporate spin model correctly.
Davin						
4030	cross-check SST psir6 and psif data types for excess counts in psir6	4/8/10	Jim McFadden	1	Jim L	Jim L to write email and review with Davin
4152	verify the location of the sun-contaminated bins for each spacecraft and any change in location over time(they should change very slowly if at all). They would then re-activate the sun contamination masking. It was previously disabled because the masking was originally in the from place. Davin said that he wants to create the new configuration files that would be uploaded to the spacecraft.	10/8/10	Vassilis and Davin	1	Pat	Davin to handle S/C change. Pat is done.
3055	SST calibrations - Davin to Review code	12/18/09	Davin	1	Pat	
John						
2103	EAC offsets	8/1/09	John Bonnell	1	Jim M	John sent Jim M code from Chris Cully showing how the offset should be calculated (8/12). 8-20-10 Jim M seny John B for review a database of offsets. 9-2-10: John B to have feedback by 9-11.
2228	one outstanding issue with THM_LOAD/THM_CAL_EFI is that for some reason when I ask for the calibrated data in SPG (which should just be adjustment of gains and offsets, and conversion from ADC units to physical units, the code is trying to do some despin operations. Since this has direct impact on my ability to evaluate the EFI data quality,	9/3/09	John Bonnell	1	Jim M	Jim M to create an option in thm_cal_efi.pro so that data in physical units can be gotten out before any spin dependent offsets are applied. 8-20-10 Jim M committed changes and will send John B an email to review. 9-2-10: John B to have feedback by 9-11.
2216	Fix the sign reversal of e34.	8/13/09	Michael	1	Jim M	John sent Jim M a date/probe combination that Forrest Mozer used to establish the correct sign of e34 (8/12). Jim M will make the appropriate thm_spinfilt corrections. John B to have feedback by 10-22-10.
4137	What I'm imagining would be a crib that loads the RAW TM data, then the NO_EDC_OFFSET data, then the fully-calibrated data so one can see the various stages in the calibration process directly. If you have time in your schedule to start developing something like that, that would be a natural next step for this part of the effort, and it would mean one more step forward.	9/13/10	John Bonnell	1	Jim M	sent to John B and waiting for feedback; demonstration of task 2228