

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide	Dev Guide	Web
<b>Hannes</b>															
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List updated 5/16/11									
4018a	New Calibration FGM parameters and spin axis offsets	5/10/2010	Hannes	1	Hannes	offsets sent to instr scientists ; email from Braunschweig: Karl-Heinz will produce new Artemis calibration files in 2-3 weeks (first week in June).									
4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes	Attitude determinations to resume, results should be available ~2 weeks									
4034b	Ferdinand sent was an attempt on his part to automate the shadow processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it up with him once you have gone through it.	4/14/2010	Vassilis	1	Hannes	Waiting for feedback from Ferdinand about state of inner probe eclipse models, long & short eclipse models									
<b>Aaron</b>															
4230	Create Checksum of UCB ASI files shipped to UCLA and compare with the UCLA checksum file	5/3/2011	David	1	Aaron	deliver checksum files to Bill									
4234	Determine cause of two type of gaps in esa slices, fix.	5/13/2011	Vassilis	1	Aaron	one gap completed and the second in progress									
4235	Determine why bulk velocity vector is off on SST plots.	5/13/2011	Vassilis	1	Aaron										
2013	2-D Slices		Vassilis	2	Aaron										
2013af	Mark one count level (dashed line)		Vassilis	2	Aaron										
4204	The enhancement for QA 156 is to add a "lazy ytitles" option to the GUI. This means that a ytitle that has separators like spaces or underscores will have newlines inserted in their place so that long titles can fit in crowded layouts. This is a standard command line feature.	3/2/2011	Pat	2	Aaron		2 days								
QA076a	SST Test Suite: (Feature) Reports that default labels are cluttered. Specifically, sst_en_eflux y-label is long, & the content of the label is more appropriate for the z-axis. I agree, but making the defaults work better will take some effort.	2/3/2011	Pat (from Michael)	2	Aaron	see 4204									
<b>Jim L</b>															
4232	VC - > L1 processing maintenance	5/9/2011	Bryce	0	Jim L	on going									
4034a	Ferdinand sent was an attempt on his part to automate the shadow processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it up with him once you have gone through it.	4/14/2010	Vassilis	0	Jim L										
	Option1) Just to recap: it will be more difficult than I thought to support switching between the default spin model and the eclipse spin model from F. Plaschke et al. It can't be implemented as a simple correction to the default model -- I would have to introduce a whole new set of variables in the L1 STATE CDF, duplicating the existing set of spin model variables, to be able to switch between corrected and uncorrected models. And eventually, we'll probably end up using the corrected model exclusively, so we'd end up with a lot of unused variables cluttering up the state CDFs.	4/16/2010	Vassilis	0	Jim L	TDAS side - select on the fly to get the correction or not (keyword) - can build both standard and eclipse spin models from new state CDFs, keeping changes out of trunk until I get back from vacation	5 days	Y	Y						

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4034a1	Code modifications: 1. Add keyword "use_eclipse_corrections" to spinmodel_interp_t (defaults to "don't use") 2. Add informational message to state whether corrections are in use or not 3. Add similar keyword & informational message to other routines as necessary (thm_cotrans, ssl2dsl, thm_cal_fgm, etc)	11/22/2010	Vassilis	0	Jim L	must change everything that the calls the spin model - <b>in progress; FGM, EFI, SCM (wavelets) complete and Jim sent email to Vassilis, Hannes and Ferdinand to take for a tst drive (5/9-10); Others to do: Spin Fits, moments (particles)</b>		Y	Y					Y	
4034a2	At the moment, I have Ferdinand's eclipse spin models for THB and THC. There was some discussion about whether one of these models would also be appropriate to use for the THA, THD, and THE, but I don't remember what the recommendation was, or if that work is still in progress. The other thing I remember from our previous conversation is that they were thinking of distinguishing between "short" and "long" eclipses, and using different eclipse spin models for each situation.  The models I'm currently using are "thb_modell_2.sav" (dated Jul 9 2010), and "thc_modell_2.sav" (dated Aug 20, 2010).	4/8/2011	Vassilis	1	Jim L	<b>awaiting Ferdinand</b>									
<b>Jim M</b>															
4228	I was checking the data and found something unusual. I realized my data files were different than expected and double checked with my co-worker. Please, take a look if you find the same: I consider themis A and the time interval 20070911. The same problem described below repeats for the entire month...	5/2/2011	Aline de Lucas	0	Jim M										
2283a	Solar Wind moments corrected (Stephan Erickson)	4/18/2011	Vassilis	1	Jim M	<b>in progress, writing a crib ate 5/20</b>									
4224	The solar wind flag variables in the files are in much better shape than before, but if you read more than one file in sequence you will come across a record here or there that is a duplicate. For your 1st date below. The record w/ time 01-01-2010 00:01:58.426 exists in both the 2009/12/31 and 2010/01/01 data files	4/12/2011	Natalia Papitashvili GSFC - ADNET	1	Jim M	reported to UCB by Tami (SPDF), fix in esa and momand then reprocess for entire mission for L2 esa and mom									
4229	Davin's commits review														
4229a	8619, 8620, 8625, 8629	5/2/2011	David	1	Jim M										
2283b	There is another aspect to this problem. Dead-time corrections are severe for ion ESA SW data and there are no dead-time corrections for onboard moments. Some algorithm will have to be developed that does this correction after the fact. Davin developed an algorithm like this for Wind 3DP. That algorithm may not work directly due to differences in energy sweeps, but something like it could be developed for THEMIS. Davin and I can provide some advice and direction. Similarly electron onboard moments in the SW may also need some corrections -- this should also be worked out at the same time.	11/2/2009	Jim Mcfadden	2	Jim M	talked to Jim McFadden who will make dead time corrections in ground based to process onboard moments better - <b>in progress</b>									
<b>Lydia</b>															
4210	Modeling SST fluxes	3/12/2011	Vassilis	1	Lydia	on hold		?	?						
4231	Download new Greenland Data and new stations	5/6/2011	Lydia	2	Lydia										
4119a	Reorganize sun contamination keywords. (Add 'manual' option to method_sunpulse_clean)	8/26/2010	Vassilis	2	Lydia	in progress									

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4119b	Add 'automatic' option to method_sunpulse_clean which will sum across time range provided by user in new keyword.	8/26/2010	Vassilis	2	Lydia	in progress									
4119c	Create a new crib that shows only a few simplified options to the users. (all_angle_median, scale_sphere, manual bin selection(for fill), automatic bin selection)	8/26/2010	Vassilis	2	Lydia	4119a and b prereq's									
2062	Alberta - At the moment the data files are from Dawson (daws), Churchill (fchu), Island Lake (isll) and Fort McMurray (mcmu). I will add Rabbit Lake and Taloyoak at some time but we have some issues with mag pointing at those 2 sites. If you recall, the agreement between Ian and Vassilis was that this data wouldn't be copied to become part of a mirrored archive like the existing data we provide. Instead, each file would be obtained from this site each time it is requested (using curl or some such). This means we can use our own logs to monitor data usage. Themis Software to be able to retrieve from Alberta		Vassilis	3	Lydia	discuss at s/w meeting									
4120	Add title support to plotxy	8/27/2010	Christine	3	Lydia	in progress									
4121	Add multi-row/column span to plotxy	8/27/2010	Christine	3	Lydia	see Pat									
	Pat														
4138e	Run simulation for variety of energies for all detectors, record energy deposited as a function of path length and projected path	12/14/2010	Davin	1	Pat	in progress									
4138f	Run simulation for range of initial positions around the full sphere.	9/17/2010	Davin	1	Pat	in progress									
2285	Christine brought to my attention a bug that occurs if you use the TDAS tsyganenko routines in a way that is not really something that I expected, but seems to be a legitimate use of the routines. If passing in a set of input parameters that are stored in tplot variables but are not in time-series, the routine produces incorrect results.	11/4/2009	Christine	2	Pat	in progress									
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.	10/8/2010	Vassilis and Davin	1	Pat	Pat has enough info to generate tables to send to the S/C, Davin to ask Peter Harvey for more info. Vassilis to email Davin.									
3055	Install Calibration parameters from Davin (replace/amend current description)	12/18/2009	Davin	1	Pat	awaiting values from Davin	for #a and #b - 4-6 hrs								
2115	tplot does not fail gracefully after illegal margin set. In this case: tplot_options,'xmargin',[100,100], tplot does not fail gracefully after illegal margin set. In this case: tplot_options,'xmargin',[-1,-1] -tplot does not fail gracefully after illegal margin set. In this case: tplot_options,'ymargin',[100,100]			3	Pat										

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2176	I ran into a small annoyance today when loading a themis document. I had originally loaded ESA and SST data for one time period, then overwrote that data by loading the same quantities but for a different time period. I did this several times and then saved the document for later. When re-opening the document I got a series of prompts asking whether I would like to re-write each quantity. It would speed up and streamline the process in this case if data that was later overwritten is not loaded when you open the document.	7/20/2009	Aaron	3	Pat	I spoke to Pat about this yesterday and we both agreed that while we cannot be sure which quantities should be re-loaded and which shouldn't (some may have been used temporarily for calculations). However, we can store the users's original choice to overwrite the data or not. So while we may not be able to save on loading time we can still keep the user from having to click multiple messages and from having to remember what they chose originally. The latter is particularly important since they may receive errors or get corrupted data if they do not choose the correct option - <b>in progress</b>	16								