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
	Hannes														
4153	maintenance of gmag stations "Exclude List"	10/11/10	David	0	Hannes	**Exclude List updated 4/15/11**									
4018a	New Calibration FGM parameters and spin axis offsets	5/10/10	Hannes	1	Hannes	**offsets sent to instr scientists ; email from Braunschweig: Karl-Heinz will produce new Artemis calibration files after the Easter Holidays.**									
4080	Attitude Determination next few months	6/21/10	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.	4/14/10	Vassilis	1	Hannes	**Waiting for feedback from Ferdinand about state of inner probe eclipse models, long & short eclipse models**									
4154	GSE-GSM	10/11/10	Vassilis	1	Hannes										
4058	This is getting a bit out of hand I think. How about a configuration file? The software just reads keywords from a configuration file. With such a configuration file it is possible to set keywords automatically (for the scientists) but additionally it would give us the possibility to keep track of what the software does automatically. When I do calibrations I can then save the configuration file together with the results and not worry about the things that the software might have done automatically.	5/10/10	Hannes	3	Hannes	Hannes sent out new version for review.									
	Aaron														
4230	Create Checksum of UCB ASI files shipped to UCLA and compare with the UCLA checksum file	5/3/11	David	1	Aaron										
4229	Davin's commits review														
4229c	8622, 8626	5/2/11	David	1	Aaron										
4227	Create Checksum file for UCB files sent to UCLA and sort out method to compare UCLA and UCB data cheksum files	5/2/11	David	1	Aaron										
2013	2-D Slices		Vassilis	2	Aaron										
2013af	Mark one count level (dashed line)		Vassilis	2	Aaron	**in progress**									
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.	3/2/11	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.	2/3/11	Pat (from Michael)	2	Aaron	see 4204									
	Jim L														
4231	Trouble Shooting VC Processing Errors	5/6/11	Jim L	0	Jim L										
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.	4/14/10	Vassilis	0	Jim L										

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
	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.	4/16/10	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						
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)	11/22/10	Vassilis	0	Jim L	must change everything that the calls the spin model **- in progress**	eta 5/13	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).	4/8/11	Vassilis	1	Jim L	**awaiting Ferdinand to be at UCLA**									
4142	issue with FGS processing - timestamps	9/30/10	Vassilis	1	Jim L	not trivial	3-5 days	Y							
2266	Timing of Spin Fit data	10/16/09	Jim McFadden	1	Jim L	see 4142									
2047	Separate E and B timestamps for spin fits: a) make a revised V02 master CDF with E and B separated b) change thm_load_fit to support V01 and V02 of the L1 CDFs c) change the L0->L1 processing code d) change the L1->L2 processing code e) test the changes, then reprocess to create the V02 CDFs (keeping the V01 files around for a while to ease the transition)	before the millenium started and when bugzilla's roam the free world	Vassilis	1	Jim L	**Hard for SPDF to deal with, with their plotting tools - review priority with Vassilis; Check again with John Bonnel regarding timing differences between fgm and efi spin fits**	4-5 days								

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
	Jim M														
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...	5/2/11	Aline de Lucas	0	Jim M	**in progress**									
4229	Davin's commits review														
4229a	8619, 8620, 8625, 8629	5/2/11	David	1	Jim M										
2283a	Solar Wind moments corrected (Stephan Erickson)	4/18/11	Vassilis	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.	11/2/09	Jim Mcfadden	2	Jim M	talked to Jim McFadde nwho will make dead time corrections in ground based to process onboard moments better **- in progress**									
2027e	Finishing the coordinate transformation of the thm_load_state data at input, to include transformation of spinaxis attitude, need to determine keyword switch, implement the rotation of the spinaxis elevation/azimuth from gei to arbitrary coordinates (consult with Pat, Vassilis)		Vassilis	2	Jim M	**not allow velocity to go bad**									
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	4/12/11	Natalia Papitashvili GSFC - ADNET	2	Jim M	reported to UCB by Tami (SPDF), fix in esa and mom L2 processing									
	Lydia														
4210	Modeling SST fluxes	3/12/11	Vassilis	1	Lydia	on hold		?	?						
2070c	Greenland		Vassilis	0	Lydia										
2070c2	DMI data(currently available Greenland data) was never calibrated and proper calibrations are not available. Need to properly label data and make sure users don't use data improperly.	11/23/10	Vassilis	2	Lydia	in progress					Y				
4129	We would like to incorporate the Hermanus gmag data into the THEMIS database in some form of external ground station, like the Greenland chain. Can you implement this with the help of Jiang? I think Jiang will be writing code to read and validate the reading process anyway, for his own work, soon.	9/8/10	Vassilis	2	Lydia	**talk to Vassilis - Jiang did not write the code**									
4119a	Reorganize sun contamination keywords. (Add 'manual' option to method_sunpulse_clean)	8/26/10	Vassilis	2	Lydia										
4119b	Add 'automatic' option to method_sunpulse_clean which will sum across time range provided by user in new keyword.	8/26/10	Vassilis	2	Lydia										
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)	8/26/10	Vassilis	2	Lydia	4119a and b prereq's									
	Pat														
4229	Davin's commits review														
4229b	8624	5/2/11	David	1	Pat	The time_ticks changes seem harmless enough. He added new fields to the structs to support local timezones, but they haven't been implemented yet. tplot.pro and cuts.pro use this function, but I tested and they still seem to work correctly with the new modifications.									

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
QA175	FT/OT SST Channels	3/9/11	Vassilis	1	Pat	**n progress, was able to meet with Davin, code needs changes to implement Davin's latest suggestions**		Y	Y						
2069	Support Mirror Sites		Vassilis	0	Pat										
2069a	Japan (ISAS)		Vassilis	0	Pat										
2069b	Austria		Vassilis	0	Pat										
2069c	France		Vassilis	0	Pat	(Rumi - not always up to date for gmags)									
2070	Support gmag data remote sites.		Vassilis	0	Pat										
2070a	Augsburg (MACC's)		Vassilis	0	Pat										
2070b	Alberta		Vassilis	0	Pat										
4223	VM email from ERG folks - question	4/19/11	ERG	1	Pat	Pat is waiting for more details from the ERG team, to find out exactly what parameters to use to reproduce a problem they saw when running on the virtual machine.									
4138c	Fire electrons through aperture perpendicular to detector surface. Determine fraction attenuated.	9/14/10	Davin	1	Pat	**in testing simulations may need to be rerun- email sent to R. Lillis**									
4138d	Run simulation for fixed energy aimed at first detector(e- and p+), record energy deposited as a function of path length and projected path	12/14/10	Davin	1	Pat	**Running simulations, will pass results along to Drew when ready**									
4138e	Run simulation for variety of energies for all detectors, record energy deposited as a function of path length and projected path	12/14/10	Davin	1	Pat										
4138f	Run simulation for range of initial positions around the full sphere.	9/17/10	Davin	1	Pat										
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	**Pat has enough info to generate tables to send to the S/C, Davin to ask Peter Harvey for more info**									