

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"	10/11/2010	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 dependent on 4018a									
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									
Aaron															
4235	Determine why bulk velocity vector is off on SST plots.	5/13/2011	Vassilis	1	Aaron	determine what caused the difference and whether based upon that there is a bug or "just as it is". Run the comparison on a few more plots.									
2013af	Mark one count level (dashed line)		Vassilis	2	Aaron	Have Andrea and Xuzhi, Shanshan and Stephen check it out									
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 space; 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	in progress	2 days								
Jim L															
4238	Issue with STATE empherms	5/27/2011	Jim L	0	Jim L	update script - to commit 6/6									
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 - in progress; FGM, EFI, SCM (wavelets) and Spin Fits complete and Jim sent email to Vassilis, Hannes and Ferdinand to take for a tst drive (5/9-10); Others to do: particle distributions (esa awaiting Ferdinand		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										
4236	Ferdinand P. suggests that we make available a diagnostic quantity produced by the eclipse spin modeling procedure. Add "phase" diagnostic quantity (from eclipse spin modeling process to L1 STATE CDF, to give end users a sense of the expected angular error in the eclipse spin model.	5/23/2011	Ferdinand	1	Jim L										
4142	issue with FGS processing - timestamps	9/30/2010	Vassilis	1	Jim L	not trivial	3-5 days	Y							
2266	Timing of Spin Fit data	10/16/2009	Jim McFadden	1	Jim L	see 4142									
Jim M															
2283a	Solar Wind moments corrected (Stephan Erickson) 5/27/11: found a bug in the handling of the suffix keywords. It'll take the afternoon to fix the bug and change the crib sheet...	4/18/2011	Vassilis	1	Jim M	email crib sent to Jim McFadden on 5/31, then to Alaska PI and James Weygand									
4229	Davin's commits review														
4229a	8619, 8620, 8625, 8629	5/2/2011	David	1	Jim M	in progress 8620 file retrieval issue									
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									
4233	Angular Correction for particle data - use Jim McFadden's code if available	1/9/2011	Vassilis	1	Jim M										

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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									
2224	thm_load_mom: for quantities like velocity, the coordinate system isn't stored in the meta data, and none of the units are stored in the place we normally try to store them (from Pat - Vassilis concurs) Will take a look.		Vassilis	2	Jim M										
Lydia															
4210	Modeling SST fluxes	3/12/2011	Vassilis	1	Lydia	on hold		?	?						
4237	I encountered a very minor bug when using thm_load_esa. Calling thm_load_esa, probe='b' for 2009-08-26/00:10:10 for 1 day causes an error (command line only, not with GUI).	5/26/2011	Lydia	1	Lydia	It might be a good exercise to run the following as a way to familiarize yourself with the following: esa crib, esa command line (load) QA script and maybe some of the tests in the GUI QA ESA Full Test Suite									
4119a	Reorganize sun contamination keywords. (Add 'manual' option to method_sunpulse_clean)	8/26/2010	Vassilis	2	Lydia	Drew was very pleased									
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	Drew was very pleased									
4119c	Create a new crib that shows only a few simplified options to the users. (all_angle_median,scale_sphere>manual bin selection(fill), automatic bin selection)	8/26/2010	Vassilis	2	Lydia	Drew was very pleased									
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	Email sent to Ian at Alberta on 5/31.									
4120	Add title support to plotxy	8/27/2010	Christine	3	Lydia	email Christine and ask her to take a look									
4121	Add multi-row/column span to plotxy	8/27/2010	Christine	3	Lydia	email Christine and ask her to take a look									
3053	102. Tplot_gui -- overwrite warning when importing data, even if variable gets renamed.	2/3/2010	Pat	3	Lydia	in progress									
2267	if you want to load a template, you need to pass the template path in via a keyword, or select an option to open it from the THEMIS->File Menu. I think we should consider adding the template path to the configuration file that we save, so that it can be loaded automatically.	10/19/2009	Pat	3	Lydia	see Pat									
Pat															
2069	Support Mirror Sites		Vassilis	0	Pat										

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2069a	Japan (ISAS)		Vassilis	0	Pat	(Rumi - not always up to date for gmaps)									
2069b	Austria		Vassilis	0	Pat										
2069c	France		Vassilis	0	Pat										
2070	Support gmag data remote sites.		Vassilis	0	Pat										
2070a	Augsburg (MACC's)		Vassilis	0	Pat										
2070b	Alberta		Vassilis	0	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 - Should be running small version soon									
4138f	Run simulation for range of initial positions around the full sphere.	9/17/2010	Davin	1	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; New parameters from Drew soon.	for #a and #b - 4-6 hrs								
3055a	Verify/Install attenuation parameters for each attenuator. There should be 8x5 = 40 parameters	12/14/2010	Davin	1	Pat										
3055b	Verify/Install geometric factor corrections for each aperture. There should be 8x5 = 40 parameters.	12/14/2010	Davin	1	Pat										
4072	Put eclipse spin model correction code in SST as already has been done for esa packet pgn	6/8/2010	Jim M	1	pat	wait for SST calibrations									
4068	Lynn Wilson possible enhancements	6/1/2010	Lynn Wilson	1	Pat	Review Lynn's software and generate list of features									
4156	Calibration of different anodes - energy efficiency	10/18/2010	Vassilis	1	Pat	if Davin provides values for 3055									
2060	L2 cdf Quality Flags: for SST		Vassilis	2	Pat										
4002	Document: SST File and Calibration Processing	3/5/2010	David	2	Pat										
4208b	Enhanced SST Instrument Web Pages	3/5/2010	David	2	Pat	Talked to David first.									

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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 -in progress									
2201	One feature that was never implemented for the mini-language is globbing.(The ability to use '*' and '?' to reference multiple tplot variables at once.) This is a feature that is standard with many of our other tplot data processing routines. I think it would be very useful to include in the mini-language.	8/5/2009	Pat	3	Pat	in progress	40								
3091	Add a configuration setting "force_download", which if enabled, will download data even if the remote file is older than the local file. This comes up if you're switching back and forth between using QA data and production data; once you've downloaded QA data, it's hard to download (usually older) production data without manually removing any QA files. This should apply to all data sources -- THEMIS, GOES, WIND, etc.	2/22/2010	Vassilis	3	Pat										