

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
To be Assigned or Discussed															
4261	need your help on idl program again. I run the attached idl program and I encounter an error in thm_load_sst.pro program	6/22/2011	Tony Lui	0	Jim L										
4262	Since mid-day on Jun 14 it seems we are getting fewer gmags from Canada and perhaps UCLA. Kathryn is saying the raw data is there. I suspect processing needs to be restarted? Could you so that since June14 to encompass any data that might be missing? Jim M: Clagary data has a 9 day gap, between 14-jun and 23-jun, but new files for 23 and 24 Jun are now here. This is not reflected in the stack plots yet, but should show up in the next processing which starts at noon.	6/22/2011	Vassilis	0	Lydia	from Jim L:the Calgary rsync jobs seem to be failing with error 12, which is "Error in rsync protocol" according to the man page. The UAtha rsync jobs often fail with a different code, error 23: "Partial transfer due to error". Not much to go on so far...maybe there's more information in the rsync logs, once I drill down through all the script and config files and figure out where they are.. From Pat: don't think that UATHA is a problem. For whatever reason our connection to them is flaky. But we pick up the files from them eventually.									
4263	Minor bug in Plot/Layout options: If there is no data the add line button is desensitized, but if you add a panel it is sensitized and clicking it causes an error. The add line button should remain desensitized if you add a panel while no data is loaded.	6/24/2011	Lydia	?	Lydia										
4264															
4265															
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									

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Aaron															
4254a	Drew had some questions about bin-sized gaps in burst/full data. I verified that the gaps in question were real and not the result of an error. He also asked about whole look direction gaps in reduced data. I spoke to Vassilis and it seems such features should not appear. I am still looking into where the problem is	6/10/2011	Drew	1	Aaron	check out concerns - all was okay									
4254b	The slice algorithm needs to be modified to handle reduced data correctly.	6/17/2011	Aaron	1	Aaron	in progress									
4254c	Angular boundaries for bins on all data types should be checked for gaps.	6/17/2011	Aaron	1	Aaron										
4254d	Change defaults in GUI and crib to allow easier plotting and comparison with old software.	6/17/2011	Aaron	1	Aaron										
2013af	Mark one count level (dashed line)		Vassilis	2	Aaron	Have Andrea and Xuzhi, Shanshan and Stefen check it out. Also a meeting scheduled with some of the students, will solicit feedback.									

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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.	4/14/2010	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						
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 distributions , sst distributions , mom); 6/24/11 - mom in progress. when starting esa see Jim M who will help get code propergated to Jim McFadden's code.		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	Started eclipse spin model processing for probes A, D, E using Ferdinand's data from December 2010. L1 data into QA area.									
Jim M															
4258	I checked SW mode ion flag for year 2011 and found that practically there are no mistakes(time reversal or equal) in THEMIS-C and there are in THEMIS-B till now I attach two correspondent files	6/15/2011	Natasha, Tami	0	Jim M	reprocess l2 esa and mom cdfs - after fgm reprocessing is complete; Probes A,B and C are done. D and E in progress.									

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4256	thm_parts_moments2 and thm_part_getspec - negative angles issue	6/13/2011	Stefan	0	Jim M	Fixed - ask Stefan to check if it fixes his issue. Problem with anular limits when the energy keyword is set.									
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 and awaiting feedback; then to Alaska PI and James Weygand; send to stephen									
4257	New ARTEMIS FGM Calibration data - store files and reprocess L2 FGM	6/14/2011	Hannes	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; awaiting Jim McFadden									
4233	Angular Correction for particle data - use Jim McFadden's code if available	1/9/2011	Vassilis	2	Jim M										
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									

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Lydia															
4210	Modeling SST fluxes	3/12/2011	Vassilis	1	Lydia	on hold		?	?						
4247	There is a very minor bug in the Line Options panel in the GUI. If you click on the 'Select trace' arrow when there is no data loaded it causes an error. This should be simple to fix. A similar error occurs in X Axis Options and Y Axis Options panels when you click the Select Label drop down list with no data.	6/6/2011	Lydia	1	Lydia										
4248	In the Panel Options Panel														
4248a	If you click in the Title field when there are no panels it causes the Panel Options panel to crash.	6/8/2011	Lydia	1	Lydia										
4250	In Panel Options it is possible to set a negative frame thickness (in the Axis Options the same frame thickness cannot be set to	6/9/2011	Lydia	2	Lydia	in progress									
4251	Generally, there are a number of spinners in the Axis Options panel that let you click down to a negative number when it is not	6/9/2011	Lydia	2	Lydia	in progress									

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Pat															
4138f	Run simulation for range of initial positions around the full sphere.	9/17/2010	Davin	1	Pat	in progress - made need to bounce to Rob Lewis									
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. From Pat 6-6-11: Possible issue with new calibration files, change of coordinate system or geometry creates overlapping bins? 6/24/11 talk to vassilis about results									
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										