

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															
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	?	Aaron										
4254b	The slice algorithm needs to be modified to handle reduced data correctly.	6/17/2011	Aaron	?	Aaron										
4254c	Angular boundaries for bins on all data types should be checked for gaps.	6/17/2011	Aaron	?	Aaron										
4254d	Change defaults in GUI and crib to allow easier plotting and comparison with old software.	6/17/2011	Aaron	?	Aaron										
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 I2 esa and mom cdfs									
4259	Bugs found	6/15/2011	Lydia		Lydia	all seem to occur in both ver 6.00 and the bleeding edge									
4259a	Loading the standard test data/plots and then setting the column number for panel 3 to 9 or higher results causes a crash. Traceback Report from THM_UI_LAYOUT_OPTIONS_EVENT:	6/15/2011	Lydia	1	Lydia										
4259b	With the standard test data loaded, open X axis panel, uncheck "is time", check "Autorange", check "bound autoscaling range", set minimum to anything less than -1. Click apply. This results in a message in the main GUI window status bar saying "Draw Object Error: Updating Panels, Please check history". No noticeable error message in the X Axis panel. After this no other changes made in the X Axis panel take effect (though no messages are issued) until the panel is closed and reopened.	6/15/2011	Lydia	1	Lydia										
4259c	Minor issue: In the X axis panel if you uncheck "is time" then check "Autorange" the minimum and maximum fields are not desensitized even though "Bound autoscaling range" is unchecked. Checking then unchecking "bound autoscaling range" desensitizes the min and max fields. Need to fix the initialization of the min and max fields so that they are desensitized.	6/15/2011	Lydia	1	Lydia										
4260	In Panel Options: if you click on the frame colour or text colour it will say the current colour is whatever the background is set to rather than the frame/text.	6/17/2011	Lydia	1	Lydia										
Hannes															
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List updated 6/15/11									
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).									

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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	When a different routine was used to calculate bulk velocities, the problem seems to have gone away and the bulk velocities look correct for the cases Aaron looked at.									
2013af	Mark one count level (dashed line) and solicit feedback from researchers on overall slices functionality		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.									
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								
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						

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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 distributions , sst distributions , mom)		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. Next step L1 data into QA area.									
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										
Jim M															
4241	Dieter and I have tested the variables, there are two that don't seem to have data for the mission, and their catdesc's seem to indicate that they won't... so can we "turn these off", or is there a plan to use them in the future? EFS_Q_MAG (Data Quality Parameter: set to NaN for EFS, as there is no good measure of data quality.) EFS_Q_PHA (Data Quality Parameter: Set to NaN, as there is no good way to measure data quality for EFS data.)	6/6/2011	Tami Kovalick	0	Jim M	They are empty at the moment, by design -- we may have a use for them in the future. Nothing needs to be done with SPDF. Look into EFS_Q_PHA and check with John Bonnell about the future.									

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4239	Problem Running thm_crib_efi.pro	6/6/2011	Peter Schroeder	0	Jim M	From Jim M 6-7-11: There has never been any vbw data, apparently the option may someday exist, so those directories exist as placeholders. What is supposed to happen in these cases is that the load routine figures out that there is no file and returns gracefully. Naturally it works fine for me. Which version of the THEMIS SW do you have in your path. Are you pointing at /disks/socware/idl/themis? Or are you using one of the "releases", e.g. /disks/socware/tdas_6_00, or do you have an SVN working copy?									
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.									
4257	New ARTEMIS FGM Calibration data - store files and reprocess L2 FGM	6/14/2011	Hannes	1	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 and awaiting feedback; then to Alaska PI and James Weygand; send to stephen									
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										
Lydia															

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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	check unix									
4248 4248a	In the Panel Options Panel 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	check unix									
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 a negative).	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 appropriate. Although there is a message to the user saying negative numbers are not allowed it would be better to not let the value go below zero by clicking the down arrow. (The message about negative number should remain for the case when the user types in a negative value).	6/9/2011	Lydia	2	Lydia	in progress									
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. Awaiting feedback.									
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									
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.									

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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?									
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										
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										