

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															
4268	A Scientist named Bob Clauer mentioned that he was interested in importing his Antarctic gmaps into TDAS.	6/30/2011	Bob Clauer	?	?										
4269	There was a suggestion that we use dprint more consistently in our debugging output so that it is possible to disable all of the text that the GUI and other TDAS software prints to the command line.	6/30/2011	Pat	?	?										
4270	We got a crash when we tried to transform tha_fgl_dsl into GSE in the GUI. The specific error:Expression must be a structure in this context: D Execution halted at thm_cotrans_update_dlimits: 113 thm_contrans.pro	6/30/2011	Pat	?	?										
4271	We couldn't add markers in the GUI on the mac. I'm not sure if we just forgot the right keyboard combination or if this is a bug.	6/30/2011	Pat	?	?										
4272															
4273															
4274															
4275															
General															
4249	UCB will look at enhancing the search tags for themis and artemis as well as a link from the NASA web site for each.	6/9/2011	Dieter - SPDF	n/a	Emmanuel	Review with Vassilis. From Pat: At minimum we should add the couple of lines described here to our page:http://searchenginewatch.com/article/2067564/How-To-Use-HTML-Meta-Tags; <META name="description" content="Brief description of THEMIS">; <META name="keywords" content="Space separated search terms for mission">									
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															

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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 - eta 7/1 or 7/5									
4254c	Angular boundaries for bins on all data types should be checked for gaps.	6/17/2011	Aaron	1	Aaron	in progress - eta 7/1 or 7/5									
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.									
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	in progress	2 days								
QA076a	SST Test Suite: (Feature) Reports that default labels are cluttered. Specifically, sst_en_efflux 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									
4012	When Cindy & I tried to load tha_eff on 2007-03-23, it didn't load and said some calibration quantity couldn't be found. When I tried to load the same thing, I didn't have a problem. So the trick would be to find out what changed from my computer to Cindy's computer and to figure out how often our user's computers are going to have the same problem that Cindy's computer had.	3/22/2010	Pat	2	Aaron	Jim M: I have no trouble with EFF data either for linux or windows.	4-6 hrs								
3014	We don't have support for filled symbols. This means symbols are only outlines.	12/11/2009	Pat	2	Aaron										
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										

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	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) - <b>can build both standard and eclipse spin models from new state CDFs, keeping changes out of trunk until I get back from vacation</b>	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); <b>6/24/11 - mom in progress. when starting esa see Jim M who will help get code propergated to Jim McFadden's code.</b>		Y	Y					Y	
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									
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	<b>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</b>	4-5 days								
<b>Jim M</b>															
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.) <b>EFs_Q_PHA (Data Quality Parameter: Set to NaN, as there is no good way to measure data quality for EFS data.)</b>	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 <b>check with John Bonnell about the future.</b>									

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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									
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										
4218	thm_part_moments angular restriction	4/4/2011	Vassilis	3	Jim M										
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										
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	in progress									
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	in progress									

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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										
4245	Widget tree: in the Load Data panel, for example, if you have selected items in the data tree and want to deselect all of them you need to click in the white space beneath the tree. Clicking in the the white space anywhere else will select the top item in the tree (on Windows anyway). Pat mentioned this might be something intrinsic to IDL that we can't control. It might be nice though to be able to deselect an item by clicking on it again when it is selected.	6/6/2011	Lydia	1	Lydia										
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	1	Lydia										
4265	Minor bugs in the x axis options panel (a and b)	6/27/2011	Lydia	1	Lydia										
4265a	Problem with log scaling and "Is time". Plot some data in two panels. In Panel 1 unclick "is time" and set the scaling to log. Change to Panel 2 (where "is time" is still set) and click apply. The tick spacing on Panel 2 changes even though you have not made any changes to Panel 2 settings. If you do try to change the tick settings on Panel 2 it acts as if it is a log axis (lets you choose "log minor tick type" etc).	6/27/2011	Lydia	1	Lydia										
4265b	Align ticks at: If you change the value of "Align ticks at" it does not save the new value. When you click apply it resets the value in the text box to the previous value.	6/27/2011	Lydia	1	Lydia										
4265c	Y axis options panel: 3. The default value for the floating center span is calculated in such a way that it can be negative. This means that in some cases the default value is not an allowed value.	6/27/2011	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 a negative).	6/9/2011	Lydia	2	Lydia										
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										
Pat															

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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										
4138f	Run simulation for range of initial positions around the full sphere.	9/17/2010	Davin	1	Pat	<b>in progress - made need to bounce to Rob Lewis - see if we can fix problems with tdas before sending back to them</b>									
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	<b>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.</b>									
4267	SST Tasks	6/27/2011	Pat	1	Pat										
4267a	Provide plots(to Vassilis & Drew) of distribution across energy with & without efficiencies applied for FT, F, & O channels so that we can decide on a plan to create a merged F & FT data product for L1-calibrated/L2	6/27/2011	Pat	1	Pat										
4267b	Write code to generate L1-calibrated merged FT/F data product.	6/27/2011	Pat	1	Pat	in progress - sent plots to Vassilis, Drew - some weirdness found									
4267c	Write code to remove proton and electron contamination from the electron and proton distributions using data and efficiencies from the F & O channels.	6/27/2011	Pat	1	Pat										