

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															
4271	Introduce Ben	7/5/2011	David												
4268	Review with Jon Loran and Programmers -VM Hardware - migration and QA testing	7/5/2011	David	1	tbd										
4270	Review TDAS Functions that need backup programmer knowledge (Oct - Dec 2011)	7/5/2011	David	1	tbd	Draw Object, Slices, L1-L2 and Summary Plots, what else?									
4269	Review Streamlining of the GMAG Processing	7/5/2011	Vassilis	?	Lydia										
4274	Bob Clauer mentioned that he was interested in importing his Antarctic gmags into TDAS.	6/30/2011	Bob Clauer	?	?										
4275	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	?	?										
4276	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	?	?										
4277	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	?	?										
4278	Set-up TDAS functionality backups starting in August 2011	7/6/2011	David	1	David										
4279	I noticed that NASA has a link to a newer version of their CDF patch. We might want to update our documentation. Their newest: http://cdf.gsfc.nasa.gov/html/cdf_patch_for_idl6x_new3.html Ours: http://cdf.gsfc.nasa.gov/html/cdf_patch_for_idl6x_new.html We should probably test with this version too, just to be sure. We link to a patch for version 3.2.4, their newest is 3.3.1	7/7/2011	Pat	1	Jim L										
4281	In the routine particles/ESA/thm_esa_slice2d/dat_avg.pro, it calls the routine "interpolate" as a procedure, but this built in IDL routine is actually a function. This will cause a runtime error when run.	7/7/2011	Pat	1	Aaron										
4282	We need to put on the themis web site a routine plot that shows Artemis around the moon (under data->summary plots->orbits). This would plot *only* P1 and P2, and the moon, and would come up after the 3rd click in a series (i.e., first you get THEMIS, click once you get all 5, click twice you get ARTEMIS only scaled properly - then it cycles). The advantage is that ARTEMIS only will autoscale and thus show P1/P2 with better clarity. The axes need to be R_L (Lunar radii) not R_E on this plot.	7/3/2011	Vassilis	0	Pat										
4283	It looks like there is a little bug in our installation instructions in our documentation.(users guide and quick reference) For the install instructions(windows & linux) it says to go to "File->preferences", but on later versions of IDL(7.0 or greater), the preferences is under Window->preferences. We should probably update both documents. This can be doubly confusing because there is a File->properties menu in these versions which is completely unhelpful for installation.	7/8/2011	Pat	1	Pat										

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4286	Create and maintain a list of FBK and FFT (and possibly other?) configuration parameters versus time, to be used by other researchers to located time intervals containing data that was acquired in a particular configuration. Examples (totally made up): THEMIS A Filter Bank Source Selections: 2007-02-23 - 2008-01-01 e12dc, scm3; 2008-01-01 - 2008-05-01 scm2, e34ac; THEMIS A FFT configuration: 2007-02-23 - 2008-01-01 16 frequency bins, e12dc, e56dc, scm1, scm3; 2008-01-01 - 2008-05-01 32 frequency bins, e12dc, e56dc, scm1, scm3	7/15/2011	SPDF - Jim L	?	?										
4287	Switching SST Load routines to thm_sst_load2 for SST calibrated data	7/15/2011	Pat	1	Pat										
4288	Slices - Tips of the month	7/15/2011	David	1	Aaron										
4289	thm_ui_axis_options: Multiple copies of information are being stored (e.g there is a state.panels and state.windowStorage also contains panels property). This could cause problems if methods update one copy but not another. It would be good to slightly reorganise the code to remove redundancy and reduce the	7/15/2011	Lydia	?	Lydia										
4290															
4291															
4292															
4293															
4294															
Harald															
	L1's and mosaics are up-to-date and available through June 30, 2011				Harald										
	Thumbnail Data:				Harald	Updates ready 7-10th of the next month									
	- cdf files done until May 2011														
	- overview plots done until May 2011														
	- movies done until May 30, 2010														
	Full-resolution raw data:				Harald										
	- complete for 2007, 2008, 2009														
	- Up to date and complete until April 2010														
	Full resolution data:				Harald										
	- data cdf done for all 2007 and 2008 and up to date and complete through April 2010														
	- keogram cdf done for 2007-2008, 2008-2009 and up to date and complete through April 2010														
	Web site mosaics and movies:														
	- Mosaics and movies reprocessed for 2007, 2008, 2009 and 2010 seasons														
	- Mosaics and movies up to date until May 31, 2010														
	Web site overview plots with full resolution data:														
	- overview plots done for 2007-2009 and until April 2010														
2069d	UCLA – mirror site set-up		Vassilis	1	Harald	UCLA has 2-1TB and 2-2TB bricks.									

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Hannes															
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List updated 7/11/11									
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									
Aaron															
4254b	The slice algorithm needs to be modified to handle reduced data correctly.	6/17/2011	Aaron	1	Aaron	in progress - give Vassilis a demo to ascertain of speed up techniques needed									
4254c	Angular boundaries for bins on all data types should be checked for gaps.	6/17/2011	Aaron	1	Aaron	in progress - give Vassilis a demo to ascertain of speed up techniques needed									
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		2 days								
Ben															
4001	Document: Administrators Guide	3/1/2011	David	1		50% time									
4214	THEMIS Pipeline proof of concept regression tests														
4214a	VC->L0	3/23/2011	Jim L	1	Ben	50% time									
4214b	L0->L1	3/23/2011	Jim L	1	Ben										
4214d	empermeris->state v00	3/23/2011	Jim L	1	Ben										
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) - 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	
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.									
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. Ping stefan..									
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	Jim McFadden is ok with 2283a where we use ground-based ESA moments to get the dead-time correction for on-board moments.; then to Alaska PI and James Weygand; sent to stephen									

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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	1	Jim M	Jim McFadden showed me what he had in mind for improving the corrections for ground-processed moments. This involves calculating the dead-time correction based on a higher resolution energy grid, with 4 different points per output energy channel. I told him I'd take a shot at it..									
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		?	?						
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 - discuss at software meeting									
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										
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										

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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										
4272	Line Options: If you delete data that appears in a plot and then attempt to open the line options panel it will crash.	7/6/2011	Lydia	1	Lydia										
4273	Axis options: Invalid entries (e.g. non-numeric) in the fixed max and min fields for a time axis cause a crash.	7/6/2011	Lydia	1	Lydia										
4280	I have encountered a minor bug/issue in the x axis options panel. Take a standard plot with a time x axis: unclick "is time", set the scaling to log 10, click Apply. It will create one major tick if aesthetic ticks is selected regardless of the number of major ticks you enter. This might be reasonable behaviour, except that if you click apply again without changing any more settings it will set the number of major ticks to 0. I think this is a draw object issue.	7/7/2011	Lydia	1	Lydia										
4284	Layout options: If you have the standard test data loaded, opening Plot/Layout options and clicking Add to add a new panel causes a crash.	7/13/2011	Lydia	1	Lydia	is a result of some change that was made, in March I think, but after v6.0. I think it probably only occurs with locked panels and variables so isn't quite as general as it sounds.									
4285	Load Data: This issue may have come up previously. In Windows only (I think), if you add some data then immediately click the trash can to delete the datatype you just added it will delete all data as the top of the data tree becomes selected in addition to the datatype just added. If possible, we should stop it from selecting the top of the tree. Perhaps we should have a warning message saying all data will be deleted if the user clicks the trash can with the top node selected (just as there is a warning message if the user clicks Delete All Data). Also, currently clicking the Delete All Data gives a warning about deleting all data even if there is no data to be deleted.	7/13/2011	Lydia	1	Lydia										
2175	L2 File Definitions Document	3/1/2011	David	2	Lydia	25% time - in progress									
2088	Themis Developers Guide		David	3	Lydia	25% time after 2175 completed									
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									

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4121	Add multi-row/column span to plotxy	8/27/2010	Christine	3	Lydia	email Christine and ask her to take a look									
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									
4013	Plot Description Doc Button	3/22/2010	David	3	Lydia	see Pat									
2036	GOES 10-12 Test data: h. update labels (Howard's request - minor tweak)		Vassilis	3	Lydia	see Jim L									
3086	add MACCS gmag data from 2007 to our data archive. We already have MACCS data for some years and a process that automatically downloads it/converts to CDF. So the task would involve finding missing files from 2007 and feeding them into our pre-existing processing framework. It should be pretty straightforward, but probably non-trivial because of learning curve/unexpected details.	2/19/2010	James Weygand	3	Lydia	see Pat - on hold as MACCS data base in transition									
2028	Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi, _gmag, _ask, _mom, _esa_pkt		Vassilis	3	Lydia										
4005	The TDAS Software will be enhanced to incorporate data from the STEREO mission. (CL and GUI) ? For Vassilis	3/8/2010	David	3	Lydia	see Pat or Jim L									
4006	add the following ancillary ground-based observations: MAGDAS Network, Auroral Electrojets (AE) and Ground Radars (SuperDarn, AMISR and Sondrestorm)	3/8/2010	David	4	Lydia	see Pat									
3007	EPO-GMAG msgs: modify the script and only issue this message if > 2 days	12/8/2009	David	4	Lydia	see Pat									
Pat															
2070b	Alberta		Vassilis	0	Pat										
4138f	Run simulation for range of initial positions around the full sphere.	9/17/2010	Davin	1	Pat	Software to be purchased or build the geometry by hand.									
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. Davin will talk to Peter next week.									
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										
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	in progress									

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4156	Calibration of different anodes - energy efficiency	10/18/2010	Vassilis	1	Pat	info from Vassilis to move forward									