

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
<b>To be Assigned or Discussed</b>															
4268	Review with Jon Loran and Programmers -VM Hardware - migration and QA testing	7/5/2011	David	1	Team	discuss with Greg at 8/1 S/W Meeting									
<b>Hannes</b>															
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									
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									
<b>Aaron</b>															
2013af	Mark one count level (dashed line)		Vassilis	2	Aaron	Have Andrea and Xuzhi, Shanshan and Stefen check it out.									
4288	Slices - Tips of the month	7/15/2011	David	1	Aaron	verify slices gui is all working									
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: <a href="http://cdf.gsfc.nasa.gov/html/cdf_patch_for_idl6x_new3.html">http://cdf.gsfc.nasa.gov/html/cdf_patch_for_idl6x_new3.html</a> Ours: <a href="http://cdf.gsfc.nasa.gov/html/cdf_patch_for_idl6x_new.html">http://cdf.gsfc.nasa.gov/html/cdf_patch_for_idl6x_new.html</a> 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	2	PC-Aaron, Linux-Pat, Mac-Jim L										
4290	draw object program review	7/18/2011	David	2	Pat, Aaron, Lydia										
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	dependent on 4290	2 days								
4292	Slices Review with Pat and Lydia	7/18/2011	David	2	Aaron, Pat and Lydia	After draw object review and task completed									
<b>Ben</b>															
4294	what is on horea? Assign VM Test and Migration Plan.	7/22/2011	David	1	Ben										
4001	Document: Administrators Guide	3/1/2011	David	1	Ben	50% time - in progress									
4214	THEMIS Pipeline proof of concept regression tests				Ben										
4214a	VC->L0	3/23/2011	Jim L	1	Ben	50% time									
4214b	L0->L1	3/23/2011	Jim L	1	Ben	in progress									
4214d	empermeris->state v00	3/23/2011	Jim L	1	Ben										
<b>Jim L</b>															

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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	1	Jim L	phase 1 - list for next Tips of the month, phase 2 - cdf or web page									
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) - <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	
4268a	Python - come up with a test , verification and migration plan by 7/27	7/18/2011	David	1	Jim L										
4268e	astrea - come up with a test , verification and migration plan by 7/27	7/18/2011	David	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										

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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	PC-Aaron, Linux-Pat, Mac-Jim L										
<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>									
4268b	danaid - come up with a test , verification and migration plan by 7/27	7/18/2011	David	1	Jim M	<b>in progress</b>									
4268c	ambrosia - come up with a test , verification and migration plan by 7/27	7/18/2011	David	1	Jim M	<b>in progress</b>									
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.; <b>Hui (Alaska PI) said okay.</b>									
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	<b>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.</b>									
4293	L1-L2 Review	7/18/2011	David	2	Jim M and Lydia										
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										
<b>Lydia</b>															
4210	Modeling SST fluxes	3/12/2011	Vassilis	1	Lydia	on hold		?	?						
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										

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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										
4290	draw object program review	7/18/2011	David	2	Pat, Aaron, Lydia										
4291	how draw object routines report errors	7/18/2011	Lydia	2	Lydia	dependent on 4290									
4292	Slices Review with Pat and Lydia	7/18/2011	David	2	Aaron, Pat and Lydia										
4274	Bob Clauer mentioned that he was interested in importing his Antarctic gmag into TDAS.	6/30/2011	Bob Clauer	2	Lydia										
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	2	Lydia	It seems to be up and running now. The ftp site has changed slightly so the MACCS data is no longer being downloaded automatically. The script will need to be updated with the new ftp site and will probably have to be run manually to get data from the last couple of months (it will need to be run manually to get the 2007 data that the task requires anyway). I noticed that there are two MACCS sites Coral Harbour and Pelly Bay that THEMIS doesn't mirror the data for. Was there some reason why these sites weren't included when the others were?									
4293	L1-L2 Review	7/18/2011	David	2	Jim M and Lydia	set up time at S/W									
2175	L2 File Definitions Document	3/1/2011	David	2	Lydia	25% time - in progress									
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 possibility of error.	7/15/2011	Lydia	3+	Lydia	in progress									

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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. David to ping him again.									
4120	Add title support to plotxy	8/27/2010	Christine	3	Lydia	email Christine and ask her to take a look. David to ping Christine.									
4121	Add multi-row/column span to plotxy	8/27/2010	Christine	3	Lydia	email Christine and ask her to take a look. David to ping Christine.									
Pat															
4268d	gaia - come up with a test , verification and migration plan by 7/27	7/18/2011	David	1	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										
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	1	Pat										
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: <a href="http://cdf.gsfc.nasa.gov/html/cdf_patch_for_idl6x_new3.html">http://cdf.gsfc.nasa.gov/html/cdf_patch_for_idl6x_new3.html</a> Ours: <a href="http://cdf.gsfc.nasa.gov/html/cdf_patch_for_idl6x_new.html">http://cdf.gsfc.nasa.gov/html/cdf_patch_for_idl6x_new.html</a> 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	PC-Aaron, Linux-Pat, Mac-Jim L										
4138f	Run simulation for range of initial positions around the full sphere.	9/17/2010	Davin	1	Pat	Software to be purchased and build the geometry by hand. (working with Rob Lewis) 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. Davin will talk to Peter next week.									
4267	SST Tasks (#a and #b) completed	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	6/27/2011	Pat	1	Pat	in progress - coming along well									