

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	Kickoff Meeting -VM Hardware - migration and QA testing (week of 8/22-8/26)	7/5/2011	David	1	Team	Greg and Jon to attend									
4296	Latest L2 Processing history	7/26/2011	David	1	Jim M	Send David Updates and he will send to Emmanuel									
4297	One, the slices code should probably throw out the top four SST energy bins when it uses the default SST load and calibration. Those bins are not properly scaled in the default SST code and their energy boundaries are rong.	7/27/2011	Pat	2	Pat	On hold till the SST calibrations have found wider use. Aaron 7/27/11: For the first suggestion (of throwing out the top 4 SST bins) that is something that I think we would want to implement at a lower level than the slices; perhaps as a keyword to the routines that load the data. We could do a specific implementation for the slices, however, the underlying issue should probably be addressed for any code using SST data. This is probably something we should discuss at the next meeting. If we decide to implement a slices-specific fix then it should be noted in the user's guide.									
4298	the slices code should probably have a keyword to use the new SST calibrations.	7/27/2011	Pat	2	Lydia	On hold till the SST calibrations have found wider use.			Y		Y				
4299	it looks like a way to better integrate the slices code with the THEMIS GUI without major modifications. In the current version, it doesn't generate the plots in the main themis window and it doesn't store the slices data in GUI memory. This means that you can't use analysis routines or change plot options the way that you can for other data types. But if we map the slices data into our current data model by storing the slices as if they're spectral data, we can include these data without any major changes. You wouldn't be able to automatically scroll through a series of slices, but they would be stored in the GUI memory so that you could plot them using the standard routines, perform analysis using the standard routines and export/save using the standard routines.	7/27/2011	Pat		Move to Future Tasks	Vassilis 7/27/11: These are good to have's but I think we are not cut for such a sophisticated system. We just need the basic cuts - they'd be already 10 times better anyone has ever done! Aaron 7/27/11: There were a two other optimizations I thought of that would be particularly useful (perhaps necessary) in the case that we fully integrate the slices into the main GUI. One is a speed optimization that could significantly reduce the time required to produce slices with full and burst data. The other would get rid of some small pixel size artifacts that occur in some slices plot do to rounding errors. These artifacts become more visible when plotted in the gui vs. with the usual contour routine. It's a simple fix that I would recommend even if we don't opt for full integration.									
4300	I got a question about the code to calculate the standard deviations of moments. From looking at the comments, the modifications to generate these products were made by Jim McTiernan. It looks like a "stop" command from debugging was accidentally left on line 239. Just as an FYI, I'm removing the stop and checking in the updated version.	7/28/2011	Pat	?	?										
Hannes															
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List updated 7/11/11									

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4018a	New Calibration FGM parameters and spin axis offsets	5/10/2010	Hannes	1	Hannes	working on the Tha Thd and The zero levels. I submitted the first set to Braunschweig. I will submit the final set that makes the offsets up to date for Tha Thd and The by tomorrow. ; 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															
2013af	Mark one count level (dashed line)		Vassilis	2	Aaron	Aaron - to find out when the researchers will give him feedback.									
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	2	PC-Aaron, Linux-Pat, Mac-Jim L										
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	analysis in progress	2 days								
QA076a	SST Test Suite: (Feature) Reports that default labels are cluttered. Specifically, sst_en_eflux 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									
Ben															
4214	THEMIS Pipeline proof of concept regression tests				Ben	cdf tool - in testing									
4214a	VC->L0	3/23/2011	Jim L	1	Ben	50% time									
4214b	L0->L1	3/23/2011	Jim L	1	Ben										
4001	Document: Administrators Guide	3/1/2011	David	1	Ben	time as available - in progress									
Jim L															

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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 review with Vassilis on 8/1									
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	
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										
	Jim M														
4268b	danaid - come up with a test , verification and migration plan by 7/27	7/18/2011	David	1	Jim M										
4268c	ambrosia - come up with a test , verification and migration plan by 7/27	7/18/2011	David	1	Jim M										
4295	Update Nightly build script, other directory changes	7/25/2011	Jim M	1	Jim M	in progress - Monday afternoon									

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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.									
4293	L1-L2 Review	7/18/2011	David	2	Jim M and Lydia										
Lydia															
4274	Bob Clauer mentioned that he was interested in importing his Antarctic gmag data into TDAS.	6/30/2011	Bob Clauer	2	Lydia	Bob email us and said he would provide necessary data.									
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. Will add these sites. Will do one site at a time. data downloading									
4293	L1-L2 Review	7/18/2011	David	2	Jim M and Lydia										
2175	L2 File Definitions Document	3/1/2011	David	2	Lydia	25% time - in progress									
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	in progress									
4013	Plot Description Doc Button	3/22/2010	David	3	Lydia	see Pat									
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	6/8/2009	Vassilis	3	Lydia	Discuss at S/W Meeting - do not remember what the requirements of task was.									
Pat															
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									

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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. 7/26/11 David reminded Davin									
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 - coden written, need data from Drew to test code									
4156	Calibration of different anodes - energy efficiency	10/18/2010	Vassilis	1	Pat	data received for themis A, code is not working on Drew's computer - Pat is investigating									