

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E; crib; script; suite; UG; DevG; Qref; AdmG
	<b>To be Assigned or Discussed</b>							
4792								
4793								
4794								
	<b>Hannes</b>							
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List up to date as of 8/20/2012		
4018a	New Calibration FGM parameters and spin axis offsets	5/10/2010	Hannes	1	Hannes	<b>10/03/2012: Cal files updates, all probes from August 2012 on.</b>		
4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes	<b>10-22-2012 Updated for 2012-04-01 – 2012-06-30</b>		
4472	Inter-spacecraft FGM calibration for ARTEMIS.	1/4/2012	Vassilis	1	Hannes	<b>6/4/12 from Hannes: Artemis inter spacecraft differences show good results with current calibration</b>		
	<b>Aaron</b>							
4468	Ongoing - Review all commits by Davin, Peter, etc for impact to TDAS.	3/27/2012	David	0	Aaron	Provide weekly report and spreadsheet		
4468	Modify ESA packet loading code to use standard spinmodel routines rather than deprecated ASCII files.		Jim L	1	Aaron	After TDAS 7.0.	1 day	
4468a	Routine to dump common block data to tplot variables (for regression testing)			1	Aaron			
4468b	Replace ESA time tagging code with std spinmodel routines			1	Aaron	Reduced mode first (always 1 spin/sample), then other modes, using tmttools L0->L1 processing as reference implementation. <b>Testing full and reduced modes, timestamp differences very minor and expected (on the order of 100 usec or less).</b>		
4468c	Verify ESA data correctly time-tagged			1	Aaron			
4468d	Add spinmodel loading code to thm_load_sst			1	Aaron	<b>10/26/2012 In progress</b>		
4468e	Add eclipse delta-phi correction to ESA and SST common blocks			1	Aaron	<b>10/26/2012: ESA done, SST in progress</b>		
4034a2	thm_parts_moments update (spin moments mods)	11/22/2010	Vassilis	1	Aaron	initial simple way, final fix is to fix esa and sst 3D data structures. Probably a good idea to make a THEMIS-specific moment calculation routine, to avoid extensive changes to WIND code currently being used. Jim McFadden (as of 3/26/12) said he would review what Jim L sends him. <b>After 4468.</b>		
4509	Some array accesses still use () instead of [].	2/6/2012	A. Breneman	1	Aaron	<b>ESA packet loading code fixed, probably some other occurrences to be updated.</b>		
	<b>Cindy</b>							
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Cindy	Next March 2013		
4781	GMAG station status: troubleshoot stations with no data reported				Cindy			
4789	Process Kiana GMAG back data	10/19/2012	Cindy		Cindy	Just started receiving data from site after permissions problem fixed by Harald.		
4706	Missing data from McGrath and Kiana magnetometer sites	7/18/2012	Cindy	1	Cindy	<b>10/19/2012: File permissions problem fixed for Kiana and data is flowing, need to check back data too. McGrath: Firewall issue at their end (no incoming ports open so we can't get in), Stu Harris is working with admins on their end, but might take a while to resolve.</b>		

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4481	New data product, AE index from THEMIS+std sites	1/9/2012	Vassilis	1	Cindy	awaiting Russian data 7/2/2012: Still need data from 2007-2010. 7/27/2012: Getting current data again, still waiting for older data.		
4787	gbo_asi_rt_mirror.ksh reports unzip errors, but downloaded file was OK	10/19/2012	Cindy		Cindy			
4721b	Add NRCAN GMAG sites (EHB, actually chain of 5 GMAGs)	8/3/2012	Cindy	1	Cindy	In progress – working with Ian Schofield and Martin Connors to get data back to 2007. 8/24/2012: Vassilis is working with them to see if the data can be made available en masse rather than requesting individual plots.		
4783	OMNI load routine for GUI	10/15/2012	Vassilis	2	Cindy	Test case for new GUI load tab API		
4695	GUI API for other missions to add GUI tabs, load routines, etc	7/6/2012	Jim L	2	Cindy	Proposed GUI load tab registration routine has required arguments for status bar, history window, and other GUI objects. That makes them part of the API; expand writeup to include documentation for most useful methods (excluding "internal-use-only" methods) on each of these objects. 10/12/2012: In progress, writing dummy load routine to demo data tree manipulation from GUI load panel.		
3086b	MACCS download server moving to new hostname, download scripts will need an update	9/11/2012	Cindy	2	Cindy	Will activate download scripts after gaps are filled on MACCS server.		
4758	MACCS download script: ever since site name changed, extra components added to directory paths (also an issue with LRV)				Cnidy	Maybe related to wget options? In progress. After 3086b.		
	Jim L							
4791	Build TDAS 7.01 release with SPDF URL patches only	10/22/2012	Jim L		Jim L	10/26/2012: In progress, need to fix a few structural issues in repository		
4790	Reprocess V03 state for updated spin axis attitude and spin phase corrections	10/18/2012	Hannes		Jim L			
4764	Steps/Sawtooth pattern in FGS data near perigee	9/24/2012	Vassilis	1	Jim L	Sudden changes at packet boundaries, probably a spin fit timing issue.		
4709	Manual eclipse processing resets "last processed" date for automated processing; some processing logs not preserved	7/24/2012	Jim L	1	Jim L	If the automated processing is up to date, and I manually reprocess a time range early in the mission, the "last processed" date will get reset to the earlier date, which could trigger an unintended reprocessing of the full mission. "last processed" date should only be updated if it moves forward in time.		
4716	Add examples of eclipse spin model corrections to crib sheets (fgm, efi, scm, fit, mom)	7/27/2012	Vassilis	1	Jim L	fgm, fit, mom, updated; efi, scm, new eclipse crib in progress.		
4718	ESA energy table updates – L0->L1 processing mods (tmttools)	8/2/2012	Jim L	0	Jim L	Modified tables will need a new ESA config word – tmttools L0->L1 code needs to be updated to recognize it as a valid ESA mode. Waiting for Jim McFadden to help us update the mode spreadsheet with new config words and table configuration. 9/28/2012: New modes & config words may already be present in latest ETC spreadsheet.		
4142	issue with FGS processing - timestamps	9/30/2010	Vassilis	1	Jim L	not trivial		
2266	Timing of Spin Fit data	10/16/2009	Jim McFadden	1	Jim L	see 4142		
	Jim M							
4784	Add RBSP orbit data to THEMIS plots	10/16/2012	Vassilis		Jim M	10/26/2012: John B will provide link for RBSP orbit data. I received a request to plot RBSP data on the THEMIS plots.  Maybe as a fourth click to show both inner probes and RB?		

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4774	file_http_copy issue for RBSP data	10/4/2012	Peter Schroeder	1	Jim McT	<p>10/19/2012: Initial fix didn't work for maven, need to add robust directory globbing capability. No impact on THEMIS mirror sites, SPDF. Anyway, this morning I had to make a tweak to the path on their server and now loading data does not work. I think I have traced the problem to line 341 of file_http_copy, but I'm unclear what the heck is supposed to happen in the lines just before this.</p> <p>When I run my current version of rbsp_load_emfisis, file_http_copy at line 341 does something nonsensical. The arguments in strmatch look like this:</p> <pre>rbsp_emfisis&gt; print,w -1 rbsp_emfisis&gt; print,sub_pathname Flight/RBSP-A/Quick-Look/2012/09/21/ rbsp_emfisis&gt; print,links[0] http://emfisis.physics.uiowa.edu/Flight/RBSP-A/Quick-Look/2012/09/21/rbsp-a_HFR-spectra-burst_emfisis-Quick-Look_20120921_v1.2.2.cdf rbsp_emfisis&gt; print,sup_pathname Flight/RBSP-A/Quick-Look/2012/09/21/rbsp-a_magnetometer_emfisis-Quick-Look_20120921_v*.cdf rbsp_emfisis&gt; print,sub_pathname+links[0] Flight/RBSP-A/Quick-Look/2012/09/21/http://emfisis.physics.uiowa.edu/Flight/RBSP-A/Quick-Look/2012/09/21/rbsp-a_HFR-spectra-burst_emfisis-Quick-Look_20120921_v1.2.2.cdf</pre>		
4152b	change the ESA tables such that the minimum magnetospheric electron energy becomes lower (about 3eV, or lower). McFadden can specify the lower energy	10/20/2011	Vassilis	0	Jim M	<p><b>only ARTEMIS probes - Need to talk to Jim McFadden. Also need MOC Support. 8/10/2012: FLATSAT energy weights don't match Jim McFadden's spreadsheet, need to discuss with him, possibly 8/10/2012. 9/10/2012: Energy weight table discrepancy resolved, flatsat and probe EEPROM tables are fine. 9/28/2012: New modes &amp; config words may already be present in latest ETC spreadsheet</b></p>		
2224	thm_load_mom: for quantities like velocity, the coordinate system isn't stored in the meta data, and none of the units are stored in the place we normally try to store them (from Pat - Vassilis concurs) Will take a look.		Vassilis	2	Jim M			
	<b>Nick</b>							
2043	Refactor repeated CDF library code in CDF processing tools BugZid=50		Vassilis	1	Nick	e.g cdf_readall, cdf_writeall code is repeated in several of the tmttools programs that deal with CDFs. Should be pulled out into a new library.		
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	Nick	10/26/2012: FBK in progress (bash script and C program), FFT next.		
4778	Developers guide update: how and when to enable or disable tabbing between user interface elements	10/9/2012		1	Nick	Current tabbing support various throughout the GUI. Sometimes you can tab to controls that don't accept input (e.g. frames or borders). Document IDL widget keywords pertaining to tab order.		

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959	When removing a middle panel with locked axes on and you have more than 2 panels, the space the removed panel occupied is drawn blank, rather than moving the panels below it up.		Cindy	1	Nick	By design. Document in User's Guide.	2 days	
960	Add a change all pages option in the Page Options panel		Aaron	1	Nick	Still needed (see 810).	2 days	
	Pat							
	Updated FGM calibrations for solar array currents, ADC nonlinearity available?	5/30/2012	Vassilis	0	Pat	Last Recieved - May 2012. May need to remind FGM team if we go a long time without updates.		
4780	Additional SST energy extrapolation tasks	10/11/2012	Drew/Vassilis	0	Pat			
4780a	Implement keyword to add energies to the existing set of energies instead of requiring the full array of energies to be specified.	10/11/2012	Drew/Vassilis	0	Pat			
4780b	Either implement logic to automatically remove the ESA retrace bin or add a keyword to allow end-users to remove bins.	10/11/2012	Drew/Vassilis	0	Pat	10/26/2012: Jim M to provide clarification on ESA retrace bins		
4780c	Make a log-log fit the default.	10/11/2012	Drew/Vassilis	0	Pat			
4780d	Add option to perform least squares fit on specific bins.	10/11/2012	Drew/Vassilis	0	Pat			
4780e	In the crib, the extrapolation should be done on counts/sec instead of en eflux.	10/11/2012	Drew/Vassilis	0	Pat			
4780f	Add a "see also" section to the cribs.	10/11/2012	Drew/Vassilis	0	Pat			
4713	Since the diode degradation will be modeled as shifting the minimum energy of the SST up, we'll need to interpolate the SST efficiency parameters to the new energy bins.	7/24/2012	Vassilis	0	Pat	This may not actually be done by someone on the software team, but I thought I'd report it anyway, so that it doesn't get lost in the shuffle once the other calibrations are completed.		
4773	Redo SST calibrations with new scheme: match intervals during quiet periods early in the mission, to establish relative efficiencies, then later in the mission to estimate degradation.	10/1/2012	Vassilis	0	Drew			
4771	Writeup for new SST calibration	9/28/2012		0	Pat/Drew	For senior review. After 4773.		
4788	scmode data, possible issue with date boundaries?	10/19/2012	Justin Lee	1	Pat	Might need to take a look at scmode L1 CDF production.		
4785	Unicode font support?	10/17/2012	Nick	1	Pat	When I try to use Greek letters in the title of a panel, it works fine for the IDL window (thm_ui_panel_options.pro) however, the plot itself does not show the characters correctly. Perhaps in the font spinner for panels (and maybe other objects too) we could add a unicode font as well? My guess is that the five available fonts are not unicode, so they do not contain many languages...		
4782	Statistical error (based on counts) for SST data	10/15/2012	Christine G	1	Pat	Already exists for ESA, add equivalent feature for SST After 4775 but before 4780s.		
4627b	SST: Andrei did some work that makes it look like we may need to look at the inter-anode calibrations for probes B & C.(This may be more Drew than me)	5/17/2012	Vassilis	1	Pat	Complete 4627a - d by August 1		
4627c	SST: We need to generate a combined spectrum product that includes the FTO(low) channel. This would be adding the FTO(low) channel to the F+FT combined spectrum that we've already created.	5/17/2012	Vassilis	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	Working on noise removal, etc.		
4627d	SST: After #a-c are done, we need to reprocess SST L2 with sun contamination removed and new calibrations applied.	5/17/2012	Vassilis	1	Pat	need 4267c to be completed		
4603	make new SST Cal standard	3/22/2012	Vassilis	1	Pat	Revisit in July ** on hold **		