

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>								
4823								
4824								
4825								
<b>Hannes</b>								
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List up to date as of 9/20/2012		
4018a	New Calibration FGM parameters and spin axis offsets	5/10/2010	Hannes	1	Hannes	12/06/2012: Cal files updates, all probes from mid-August 2012 on.		
4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes	10-22-2012 Updated for 2012-04-01 – 2012-06-30		
4472	Inter-spacecraft FGM calibration for ARTEMIS.	1/4/2012	Vassilis	1	Hannes	6/4/12 from Hannes: Artemis inter spacecraft differences show good results with current calibration		
<b>Aaron</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>Testing in progress with THB 2010-02-13 eclipse data. JWL's correction of onboard tensor quantities probably not correct (rotated wrong direction?) Differences between ground/onboard moments on the order of 5 deg. similar to non-eclipse</b>		
4810	Slices – add sun position to data structures rather than loading on demand	11/30/2012			Aaron			
4811	Slices – Do 1-count removal before averaging, rather than after	11/30/2012			Aaron			
<b>Cindy</b>								
1177	The above Axis Annotation tab buttons should probably get changed from "first/last" to "range min/max". They used to apply to tick positions, but now are really just the plot box (range) min/max.		Michael	EL		Testing in progress, maybe ready for Monday? Quite a few related changes, variable names changed to reflect current usage.	for discussion, 2 hrs	
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.		
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.		
4760	Add McMac magnetometer network (12 sites) to our data set.	9/17/2012	Vassilis		Cindy	Pinged Peter Chi, 12/12		
4761	Add STEP polar magnetometer network (6 sites) to our data set.	9/17/2012	Vassilis		Cindy	12/12/2012 Ian Schofield is gathering Dr. Hayashi's data for us, will get back to us after Jan 1.		
4783	OMNI load routine for GUI	10/15/2012	Vassilis	2	Cindy	Issue with consistency of data tree display when switching load tabs. Coordinate with Pat's work on task 4809 if necessary.		
<b>Eric</b>								
4764	Steps/Sawtooth pattern in FGS data near perigee	9/24/2012	Vassilis	1	Eric	Sudden changes at packet boundaries, probably a spin fit timing issue.		
4764a	Script to identify time intervals with FGL/FGH/FGE coverage in high B field	9/24/2012	Vassilis	1	Eric			
4764b	Look at FGS dB/dt and FGS header times to identify when glitches are occurring	9/24/2012	Vassilis	1	Eric			
4764c	When glitches are present, compare FGS and waveform data looking for time offsets (off by 1 spin in FGS?)	9/24/2012	Vassilis	1	Eric	Seems to be happening intermittently, every other packet?		

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4523	GUI Load Data: Console errors when selecting "None" from instrument type dropdown	2/17/2012	Jim L		Eric	Not trivial to remove the "None" selection from the instrument type combobox. "None" was basically a placeholder for the "load ASI" feature that might not be implemented for a long time, if ever. Consequently, the code for changing between instrument types is looking for hard-coded array indices into the combobox list and treating them as special cases. Code badly needs a rewrite. Formerly QA134.  THM_DATA2LOAD(48): Invalid Input: none THM_DATA2LOAD(49): Try, doc_library, 'thm_data2load' THM_DATA2LOAD(48): Invalid Input: none THM_DATA2LOAD(49): Try, doc_library, 'thm_data2load'		
3063	40. CL tplot options -- setposition test plots all look the same	1/15/2010	Pat	4	Eric	Long-standing tplot bug, may not ever be fixed. Remove from test scripts?		
	<b>Jim L</b>							
4817	Eclipse correction for onboard moment tensor quantities doesn't look right.	12/11/2012	Aaron		Jim L	Sinusoidal features get worse when corrections applied to onboard moments; Aaron's ground moment corrections show improvement. Onboard correction applied in wrong direction?		
4815	Developer guide updates for GUI API, placeholders for rest of SPEDAS to plugin interface	12/7/2012	Vassilis					
4816	Eclipse spin model processing: some eclipses not being processed with current code, but Ferdinand's code is giving results?	12/7/2012	Ferdinand		Jim L	Ferdinand has updated eclipse model parameters for inner probes		
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.		
4735	Socware ksh directory cleanup	8/24/2012	Jim L	1	Jim L	/disks/socware/thmsoc_dp_current/src/ksh out of sync with repository; some files/subdirectories not present in SVN; some junk files (emacs backups, etc)		
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. <b>Waiting for Jim McFadden to help us update the mode spreadsheet with new config words and table configuration.</b> <b>9/28/2012: New modes &amp; config words may already be present in latest ETC spreadsheet.</b>		
4142	issue with FGS processing - timestamps	9/30/2010	Vassilis	1	Jim L	not trivial. <b>After 4764</b>		
2266	Timing of Spin Fit data	10/16/2009	Jim McFadden	1	Jim L	<b>See 4142 After 4764</b>		
	<b>Jim M</b>							
4799	Possible issue with onboard moments, or transform to GSM coords			1	Eric	<b>Only present in online plots. Problem fixed, reprocessing in progress.</b>		
4784	Add RBSP orbit data to THEMIS plots	10/16/2012	Vassilis		Jim M	<b>10/26/2012: John B will provide link for RBSP orbit data.</b> I received a request to plot RBSP data on the THEMIS plots.  Maybe as a fourth click to show both inner probes and RB?		
4820	Need IDL-only FITS reader code suitable for inclusion in SPEDAS	12/11/2012	Mini-GEM		Jim M			
4821	Use improved IDLDOC procedure to generate TDAS HTML documentation?	12/11/2012	Mini-GEM		Jim M	better format, more web-friendly? IDL 8.0+ versions OK since it won't be distributed with TDAS, only the HTML output.		

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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	<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>		
4152c	change the ESA tables such that electrons and ions can be changed separately into magnetospheric and solar wind modes.	10/20/2011	Vassilis	0	Jim M			
	<b>Nick</b>							
960	Add a change all pages option in the Page Options panel		Aaron	1	Nick	Last step, update user's guide and relevant GUI test procedures	2 days	
4804	ESA, SST configuration history	11/20/2012	Jim L		Nick	Produce HTML reports for ESA and SST configuration history, as was done for FFT and FBK. <b>ESA done, SST in progress</b>		
4818	thm_load_sst, thm_load_mom have no way of loading ESA or SST config variables from L1 CDFs	12/12/2012	Jim L		Nick			
4819	Generic "terms of use/rules of the road" popup for SPEDAS	12/11/2012	Mini-GEM		Nick	Caller provides some sort of mission identifier & custom message; after displaying message, give user a chance to accept/decline; if accepted, remember for rest of IDL session (common block?) and don't prompt again (for that mission ID). Should work in CL or GUI environment.		
4541	tvector_rotate: some rotation matrices produced by rot_testscript are all NaNs.	3/13/2012	Jim L			2 matrices out of 27895 (indices 18783 and 23042) are all NaNs, rest OK. Possibly missing FGM data points at those sample times? No action required for QA. Formerly QA268.		
	<b>Pat</b>							
	Updated FGM calibrations for solar array currents vs. spin phase?	5/30/2012	Vassilis	0	Pat	Last Recieved - May 2012. May need to remind FGM team if we go a long time without updates. <b>David Fischer will probably have updates after Jan 1.</b>		
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.		
4782	Statistical error (based on counts) for SST data	10/15/2012	Christine G	1	Pat	<b>Followup from Christine re: Jim M's code, still waiting for final verdict</b>		
4723	tplot feature request: formatting callbacks	8/7/2012	Pat	1	Pat	There doesn't appear to be a way to explicitly format a var_label in tplot using a callback function, the same way that I can format an annotation using a callback in normal IDL-plot. This is a pretty big limitation on the var_labels. Right now it only		
4809	Crash loading GOES or ACE data with iugonet code on IDL_PATH with bleeding edge	11/29/2012	Jim L		Pat	call_sequence API has changed, IUGONET includes modified call_sequence code using the older API and needs to be updated.		
4519	getspec (CL) rewrite for maintainability	2/21/2012	Pat, Aaron, Jim M	1	Pat/Vassilis	Code has become prone to bugs, very difficult to understand and maintain, would benefit greatly from rewriting from scratch with "lessons learned" up to this point. Level of effort? <b>Pat and Vassilis to go over code, improve documentation, and identify areas that could be improved.</b>		
4519a	Aaron has identified some "cut points" for sections that can be pulled out as separate procedures.				Pat	Extract procedures, figure out which variables are used/required in each section.		
4822	SST extrapolation code – some "weird" results reported	12/14/2012	Shanshan		Pat			

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4711	GUI cotrans error checking	7/24/2012	Pat	1	Pat	When looking at the replay/overwrite logic in the GUI, I noticed a small issue. If you try to cotrans a variable that is not a 3-vector, it still asks you if you want to load the support data that is necessary for the transformation. I'm wondering if it might be better for it to check whether the variable can be transformed at all, before it tries to load the support data needed to run the transformation.		