

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E; crib; script; suite; UG; DevG; Qref; AdmG
To be Assigned or Discussed								
4802	GOES particle data	11/19/2012	Vassilis			Adam Kellerman has already brought in Goes particle data. Having a crib sheet, plus a gui tool to plot them would be great. We can then create GOES overview plots. The gui api can be helpful towards that end.		
4805	GOES magnetometer data from additional satellites - make available through TDAS somehow?	11/20/2012	Vassilis			So the NGDC GOES website is: http://www.ngdc.noaa.gov/stp/sa		
4806	CLUSTER load routine?	11/27/2012	Johnathan Eastwood			There may be a way of importing this data into tplot already, but maybe under a non-obvious name?		
4809	Crash loading GOES or ACE data with iugonet code on IDL_PATH with bleeding edge	11/29/2012	Jim L					
4813	Warnings in thm_part_moments (shows up in thm_crib_esa_extrapolation.pro)	11/30/2012	Pat			Basically, thm_part_moments has a bunch of strfilter calls that it uses to set metadata around line 338. Since not all the moment types are always created (e.g. _flux, avgtemp, _sc_pot), we get a bunch of warnings when it runs now that look like this: STORE_DATA(121): Invalid name: Cannot use empty string to name tplot variable		
4815								
v7.0 QA Tasks for Review with Vassilis								
Hannes								
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	10/03/2012: Cal files updates, all probes from 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		
Aaron								
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 tmtools L0->L1 processing as reference implementation. Testing full and reduced modes, timestamp differences very minor and expected (on the order of 100 usec or less).		
4135a	Write some TDAS routines that take an apid and a configuration word, and return a structure with all the relevant properties of that configuration. This is basically reimplementing some logic that's already in the L0->L1 processing code (written in C). If anyone ever needs other attributes of the instrument configuration (for example: the angle maps corresponding to each configuration), we would update these routines to return the additional information.	9/10/2010	Jim L	1	Aaron	Code written, testing in progress		
4468c	Verify ESA data correctly time-tagged			1	Aaron			
4468d	Add spinmodel loading code to thm_load_sst			1	Aaron	10/26/2012 In progress		
4468e	Add eclipse delta-phi correction to ESA and SST common blocks			1	Aaron	10/26/2012: ESA done, SST in progress		

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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. Testing in progress with THB 2010-02-13 eclipse data.		
4509	Some array accesses still use () instead of [].	2/6/2012	A. Breneman	1	Aaron	ESA packet loading code fixed, probably some other occurrences to be updated.		
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			
	Cindy							
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			
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			for discussion, 2 hrs	
						Still open.		
4814	Remove gen_gmag_jpg_list_new.ksh cron job, not needed now that station availability spreadsheet is in place.	11/29/2012	Cindy		Cindy	remove from astraea2 crontab in SVN, thmsoc_dp_current/src/config/crontabs, and astraea2 system crontab		
4807	USGS magnetometer CDFs – update acknowledgement in master CDF	11/29/2012	Dieter Blitz	1	Cindy	Reprocess data CDFs with updated master CDF (usage and web site link in metadata)		
4760	Add McMac magnetometer network (12 sites) to our data set.	9/17/2012	Vassilis		Cindy	Meeting w/ Peter Chi on Tuesday 11/20/2012		
4761	Add STEP polar magnetometer network (6 sites) to our data set.	9/17/2012	Vassilis		Cindy			
4783	OMNI load routine for GUI	10/15/2012	Vassilis	2	Cindy	Issue with consistency of data tree display when switching load tabs		
	Eric							
	Jim L							
4799	Possible issue with onboard moments, or transform to GSM coords			1	Jim L for initial look	Vz and Vx magnitudes close when in solar wind, sinusoidal behavior		
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							

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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?		
4797	plotxyz error	11/16/2012	Pat	1	Jim M	I just noticed a bug in plotxyz, it is not skipping the reserved colors at the beginning of the themis color table. Since it reuses the specplot draw_color_scale routine, I'm guessing a change in that routine had an unanticipated effect on plotxyz.		
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	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 & config words may already be present in latest ETC spreadsheet		
	Nick							
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	
4800	thm_load_fbk alters input parameter	11/19/2012	Christine G	1	Nick	when I run thm_load_fbk, probes=sc, trange=trange, sc is converted from a string to a string array. Then, later in my program, when I call store_data, the problem arises...Because now instead of sc being a string (with dimensions 0), it is a string array (with dimensions 1).		
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. ESA in progress, SST next		
	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.		
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.		
4812	SST extrapolation code – z-axis shift when using new SST calibrations	11/30/2012			Pat			
4782	Statistical error (based on counts) for SST data	10/15/2012	Christine G	1	Pat	Waiting for feedback from Christine		
4737	calc enhancements	9/3/2012	Vassilis	1	Pat	For newly created variables, ytitle should default to the variable name; scale should reset to automatic and forced to be linear. Or, maybe better if it takes the lin/log options from a variable on the right hand side, if that's feasible.		
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		
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.		