						I		
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.		
	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		
	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?		
	Crash loading GOES or ACE data with iugonet code on IDL_PATH with bleeding edge	11/29/2012	Jim L					
4817								
4818								
	Hannes							
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List up to date as of 9/20/2012		
	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.		
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	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).		
	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		
	Verify ESA data correctly time-tagged			1	Aaron			
	Add spinmodel loading code to thm_load_sst			1	Aaron	10/26/2012 In progress		
	Add eclipse delta-phi correction to ESA and SST common blocks	11/00/0040	\/aa-:!:-	1	Aaron	10/26/2012: ESA done, SST in progress		
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. JWL's correction of onboard tensor quantities probably not correct (rotated wrong direction?)		
	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							

Task#	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes		A&E crib; script; suite;
							Estimate	UG; DevG; Qref; AdmG
1177	The above Axis Annotation tab buttons should probably get changed from "first/last" to "range min/max". They used to apply to		Michael	EL			for discussion, 2 hrs	
	tick positions, but now are really just the plot box (range) min/max.						21110	
						Still open.		
4814	Remove gen_gmag_jpg_list_new.ksh cron job, not needed now that	11/29/2012	Cindy		Cindy	remove from astraea2 crontab in SVN,		
	station availability spreadsheet is in place.					thmsoc_dp_current/src/config/crontabs, and astraea2 system crontab		
4807	USGS magnetometer CDFs – update acknowledgement in master CDF	11/29/2012	Dieter Blitza	1	Cindy	Reprocess data CDFs with updated master CDF (usage and web site link in metadata)		
4783	OMNI load routine for GUI	10/15/2012	Vassilis	2	Cindy	Issue with consistency of data tree display when switching load tabs		
	Eric							
	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.		
	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			
	<u>.</u>							
1915	Jim L Developer guide updates for GUI API, placeholders for rest of	12/7/2012	Vassilis					
	SPEDAS to plugin interface							
	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		
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		
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"		
	automated processing, some processing logs not preserved					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.		
4786	Merge IUGONET code into TDAS	10/17/2012	Jim L		Jim L	Some modified TDAS routines were provided in order to support		
						IUGONET load routines and GUI tab – TDAS code may have been modified since then, need to ensure no regressions from		
4705	Construction disposition of construction	0/04/0040	70 I	4	7: I	taking IUGONET mods.		
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 (tmtools)	8/2/2012	Jim L	0	Jim L	Modified tables will need a new ESA config word – tmtools 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. After 4764		
2266	Timing of Spin Fit data	10/16/2009	Jim McFadden	1	Jim L	See 4142 After 4764		
	Jim M							

Task#	Task Description	Date	Reported By	Pri	Assigned To	Notes		A&E crib;
		Opened					Estimate	script; suite; UG; DevG; Qref; AdmG
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?		
	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. 12/07/2012: Can't reproduce.		
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 FTC spreadsheet.		
	Nick					ALIPARIA DE LIPARIA DE LA CALIBRA SUPERIOR DEL CALIBRA SUPERIOR DE LA CALIBRA SUPERIOR DEL CALIBRA SUPERIOR DEL CALIBRA SUPERIOR DEL CALIBRA SUPERIOR DEL CALIBRA SUPERIOR DE LA CALIBR		
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 arisesBecause now instead of sc being a string (with dimensions 0), it is a string array (with dimensions 1). Fixed in thm_load_fbk, thm_cal_fbk		
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 done, SST in progress		
	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			
	Writeup for new SST calibration	9/28/2012		0	Pat/Drew	For senior review. After 4773.		
	Statistical error (based on counts) for SST data	10/15/2012	Christine G	1	Pat	Waiting for feedback from Christine		
	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.		
	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? Pat and Vassilis to go over code, improve documentation, and identify areas that could be improved.		
4506	GUI Getspec: Some regrid values yield all while plots (noticed in GUI getspec test suite for TDAS 7). If a re-write of thm_part_getspec this would be done as part of it.	2/8/2012	Aaron			64x20 yield plots but 50x20 and 49x20 do not. All energy fluxes appear normal. This is certainly something strange happening in thm_part_moments2, so we probably want to wait until after QA to fix it. After 4519		

Task#	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E crib; script; suite; UG; DevG; Qref; AdmG
4521	GUI getspec: issues when setting phi limits and starting phi at same time -	2/8/2012	Aaron			I produced two phi plots with the phi limits set to 45 - 180; the second plot also had the start angle set to 90 degrees. That plot begins at 90 degrees and appears as it should until just past 160 degrees at which point the remainder appears to be 'smeared' and ends at a maximum of ~440. Because of this it is also hard to tell if it looped back to the data between 45-90 correctly. After 4519		
4507	GUI getspec: no way to return just an energy spectrogram	2/8/2012	Aaron			Formerly QA099 After 4519		
	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 practice by the limitation on the var labels. Pight now it calls		
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.		