

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>							
4706								
4707								
4708								
	<b>General</b>							
	<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>							
4468	Ongoing - Review all commits by Davin, Peter, etc for impact to TDAS.	3/27/2012	David	0	Aaron	Provide weekly report and spreadsheet		
1301	The draw object takes a long time to render spectrograms when they are very zoomed in. It should be possible to put a special case in that would make this work more quickly.		Pat	1		Workaround in place, working on another optimization that could save some memory and fix some other issues		
4719	ESA energy table updates – TDAS mods (ESA packet processing, calibration, summary plots, etc)	8/2/2012	Jim L	1	Aaron	Should have FLATSAT data soon to test with		
4858	One-count removal for velocity slices – make cutoff value a parameter	2/22/2013	Aaron	1	Aaron	Implement at lower level so can be used in more places		
4700	Trouble opening eps files exported from GUI	5/3/2013	Aaron		Aaron	Exports from slices gui OK, main gui not OK. Can be opened with OpenOffice on Linux, but not in Adobe Reader or Illustrator on Windows. IDL 7.0.6		
4505	Add a TDAS routine to do 1-d cuts - <b>when ready to work send Aaron Bennenman an email for clarity of task and then review at the S/W meeting again with Vassilis.</b>	2/6/2012	Aaron Breneman	2	Aaron	You could obtain a 1D cut of a slice by aligning the custom orientation vector (slice_orient keyword) such that the desired cut is along the x or y axis. The data could then be pulled directly from the array returned by thm_part_slice2d via the 'part_slice' keyword. This returns an R x R array containing the interpolated slice data (R=resolution). The x & y axis values for the array are returned in the 'xgrid' and 'ygrid' keywords.	1 hr	
4314d	combination of ESA and SST data could only be done in the Geometric mode. Would be great if it could be done in other modes as well.	8/11/2011	Xuzhi	4	Aaron	<b>on hold</b>	1 hr	
	<b>Cindy</b>							
4702	Possible problem with neutral sheet model	5/3/2013	Cindy		Cindy	Fix tested and checked in		
4703	thm_map_add needs directory separator when building path to .sav file	5/3/2013	Harald		Cindy			
4859	Double check processing & mirroring of Greenland GMAG data	3/6/2013	Cindy		Cindy	Some data for site "upn" was missing at Berkeley but present at UCLA		
4860	Check inventory of Berkeley vs. UCLA GMAG CDFs and transfer any missing files	3/6/2013	Jim L		Cindy	On the Berkeley server, we have data for site "upn" for every day in 2010-06 *except* for 2010-06-06, the date used in the test. I'm looking in:		
4842	GUI API – Plugin access to GUI configuration settings dialog (remote, local data dirs, etc)	1/18/2013		1	Cindy	Another item for the master plugin config file (add a new mission to the dropdown in the configuration settings dialog) <b>On hold until after TDAS 8.0</b>		
4611e	Add support to GUI configuration settings panel for editing/saving cdf_leap_second configuration. (See also: tasks 4516 and 1315 for ACE, WIND, ISTP).	4/17/2012		1	Cindy	May or may not make sense to combine with 4842, if too hard to integrate we can defer to a future release. <b>On hold until after TDAS 8.0</b>		

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	<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. <b>On hold pending Jim L's analysis</b>		
4764a	Script to identify time intervals with FGL/FGH/FGE coverage in high B field	9/24/2012	Vassilis	1	Eric	<b>Look at THD starting from early March 2013 (after full reset), see when glitches start happening. Anything to do with eclipse periods?</b>		
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?		
4688	Add load routine for Kp index data.	4/8/2013	Xuzhi		Eric	<u>ssl_general/key_param/load_kp.pro</u> is obsolete, but Kp data is available		
4689	need to keep clicking "yes to all" when replaying document that overwrites data. Also need to track deletions of data.	03/27/13	Pat		Eric	Looking into this one, I found that quite a few operations don't have overwrite queries tracked:  Interpolate pwrspc calc nudge getspec  Some seem to default to overwriting, some default to repeated queries to user. Original report: I loaded data for probes b and c and then went to plot the data and realised I should have loaded a and b for the tests. I returned to the load data panel and loaded the probe a data before deleting the probe c data. After saving as a themis document and reopening, the c data was loaded but not deleted. The data that was loaded and deleted using delete all data following the testscript does not appear when you reopen the document (as you'd expect).		
4697	Omni load, if no data available for selected interval, loads whatever is available for that month	04/26/13	Eric		Eric	May be intentional to keep from producing empty tplot variables, but time_clip should at least produce a prominent warning.		
4694	Open legend options by clicking in legend box	4/18/2013	Eric		Eric	Similar to axis, panel, page options		
1266	Our numerical entry fields only accept exponential notation entries of the form (1.23e-3) but not the more traditional format( 1.23*10^-3). We may want to leverage the code base from the mini language so that we can interpret these entries as numbers.		Pat	2		Still happening?	3 days	
	<b>Jim L</b>							
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.		
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>							
4690	thm_mom_cotrans_cltestsuite is obsolete, either needs a complete rewrite to conform to current thm_load_mom usage, or merge any non-redundant tests into existing test scripts.	03/04/13	Jim M		Jim M	This test script can be dropped. In fact, most of the "cotrans" CL test scripts should be folded into the instrument "load" CL tests, with the exception of tests like cotrans_all_combos.		
4698	time_clip/tclip	4/26/2013	Pat		Jim M	tclip is for clipping y-axis data, and doesn't do time clipping at all. Needs better documentation.		
4784	Add RBSP orbit data to THEMIS plots	10/16/2012	Vassilis		Jim M	<b>5/10/2013 Patched to hopefully fix a crash while trying to load a color table.</b>		

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4820	Need IDL-only FITS reader code suitable for inclusion in SPEDAS	12/11/2012	Mini-GEM		Jim M	Checked into SVN, needs to be documented in developers guide.		
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. 5/03/2013: Need to update additional TOC checksums to prevent errors in instrument startup scripts.</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>							
	Update FBK, FFT, ESA, SST configuration history HTML pages				Nick	Update monthly for now.		
4691	Use TLB_FRAME_ATTR in thm_ui_prompt_widget to avoid need for looping around overwrite/confirmation dialogs (by disabling [X] close button).	4/10/2013	Nick		Nick	Implement on one dialog first, test on all supported platforms, if it works everywhere, then convert the rest of the dialogs.		
4834	Add additional links to instrument configuration history pages	1/10/2013	Bob McGuire	1	Nick	1) From ESA, SST, other instrument pages 2) L1/L2 master CDFs 3) Possibly from one of the "Data" dropdown menu items? <b>Emmanuel working on web site updates</b>		
2078	bau_sunpulse_met assumes x86 endiannes (BugzID=13)		Vassilis	3	Nick	Tmtools libdecom code. On first call, do runtime call to check whether floats are big-endian or little-endian, set a static flag in that routine, then do appropriate conversion. <b>JWL to test.</b>		
4683	Change L2 FIT master CDF to allow different sample counts for efs and efs_dot0		Jim L			In progress.		
4684	thm_cal_fit: clean up NaNs in fgs and efs, reprocess L2 FIT		Jim L			After 4683. Will need to change code that writes variables to L2 CDF.		
4704	Web site code & files should be checked into SVN	5/9/2013	Jim L		Nick	Workflow to update web site might need to change to keep in sync with repository		
	<b>Pat</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.		
4844	Different SST look directions no longer line up in energy with original calibration factors	1/24/2013	Pat	0	Pat	What we came up with is to interpolate the esa to match SST(in time & look direction), then smooth the ESA data to account for poor count statistics, then interpolate between the SST and the ESA to shift the SST to a regular energy grid. This will be a decent amount of effort to code up, but it seems promising. <b>Will probably not make it into TDAS 8.</b>		
4771	Writeup for new SST calibration	9/28/2012		0	Pat/Drew	For senior review. After 4844. <b>(But 4844 will likely not be ready for TDAS 8 release...ready when senior review is due?)</b>		
4861	Code maintenance issue – GUI coordinate systems				Pat	But there may be a code maintenance issue since we maintain two lists of supported coordinate systems. (One in thm_ui_req_spin.pro & one in thm_ui_cotrans_new.pro I just used a comment to future programmers, but a single list would probably be more durable.		
4696	Reorganize crib sheets	04/03/13	Pat		Pat	Maybe separate directories for "basic", "advanced", experimental" functions? (Will also need to update users guide and quick reference guide to reflect new crib locations)		
4699	improve time series handling in plotxyz	4/29/2013	Pat		Pat	Add x-is-time, y-is-time keywords		
4701	thm_part_moments2 very slow with certain options	5/3/2013	Pat		Pat	Possibly related to new SST calibrations?		
4832	Allow keywords in calc function calls	1/7/2013	Vassilis	1	Pat	e.g. calc,'a=total(b,/nan)'		