

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>								
4716								
4717								
4718								
<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	5-24-2013 Updated for 2012-12-01 – 2013-02-21, tha, thd, the		
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		
4719	ESA energy table updates – TDAS mods (ESA packet processing, calibration, summary plots, etc)	8/2/2012	Jim L	1	Aaron			
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 Need to discuss some issues related to Pat's background subtraction code		
4711a	Getspec rewrite, sanitize ESA	05/23/13			Aaron	Convert to physical units, standard internal representation, strip extraneous fields to save memory		
4711c	Getspec rewrite, Apply theta,energy,phi limits	05/23/13			Aaron	disables bins based on user specified limits		
4711g	Getspec rewrite, Make PA/Theta spec	05/23/13			Aaron			
4711h	Getspec rewrite, Make Gyro/Phi spec	05/23/13			Aaron			
4711i	Getspec rewrite, Make En spec	05/23/13			Aaron			
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	
<b>Cindy</b>								
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Cindy	Next September 2013		
4781	GMAG station status: troubleshoot stations with no data reported				Cindy			
	Ping Sasha for status of back AE station data					Next March 2013		
4687	Check with Ian Schofield about status of Dr. Hayashi's 1-sec STEP data set.	41369	Cindy		Cindy	September 2013		
4710	Diagnose severity 1 GMAG processing errors, stuck job on auxo	05/20/13	Jim L		Cindy	Stopping cron job until problem is diagnosed		
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?		
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).		
4713	Add GUI load panel for geomagnetic indices	05/24/13	Eric		Eric			
4714	Set up cron jobs for mirroring NOAA data at UCB and UCLA	05/24/13	Eric		Eric			
4715	Right click on data tree not showing metadata for non-THEMIS variables	05/24/13	Eric		Eric			
<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.		
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.		
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>								
4784	Add RBSP orbit data to THEMIS plots	10/16/2012	Vassilis		Jim M	<b>Plots are processing now, just need to add to summary plot menus. Add 2-hr plots, make plots wider.</b>		
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>								
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>		

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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>		
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. Jim L to test sample reprocessed L2 file.		
4708	Add nan_cleanup keyword to thm_load_fit and thm_cal_fit. Default should be "no cleanup" for backward compatibility.	5/22/2013	Jim L		Nick			
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		
4706	Replace difficult-to-modify Javascript menus on themis web site, clean up navigation inconsistencies	5/17/2013	Nick		Nick			
	<b>Pat</b>							
	Updated FGM calibrations for solar array currents vs. spin phase?	5/30/2012	Vassilis	0	Pat	Last Recieved – Jan 2013. May need to remind FGM team if we go a long time without updates. Check again in late June 2013		
4771	Writeup for new SST calibration	9/28/2012		1	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>		
4699	improve time series handling in plotxyz	4/29/2013	Pat	1	Pat	Add x-is-time, y-is-time keywords		
4711	Getspec rewrite, top level	05/23/13			Pat	Loops over data, validates input arguments		
4711b	Getspec rewrite, sanitize SST	05/23/13			Pat	Convert to physical units, standard internal representation, strip extraneous fields to save memory		
4711d	Getspec rewrite, FAC transform	05/23/13			Pat			
4711e	Getspec rewrite, Regrid	05/23/13			Pat			
4711f	Getspec rewrite, Apply PA and gyro limits	05/23/13			Pat			
4861	Code maintenance issue – GUI coordinate systems			1	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	1	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)		