

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								
4694	Developers guide/admin guide update: troubleshooting SSH (SVN/rsync) access	7/6/2012	Jim L	1	Jim M	When setting up SVN access for a new user (or an old user using a new computer), or if a host key has changed, might need to do an interactive SSH login to answer the host key verification prompt before SVN or rsync will work. Dev guide due to SVN+SSH issue, Admin guide due to rsync over SSH issue.		
4699	I've had questions from some scientists about the status of some of the gbo sites. In particular Fort Yates and Beetles. I know that Fort Yates is done for (drowned in a flood or some other natural disaster). It might be helpful to add a color scheme that is not red but maybe grey for those sites we know will not be up again. Maybe even a note saying site is down for good.	7/10/2012	Cindy			Database table for "defunct" sites, with brief explanation why, and check this in the PHP code for the status pages? Or (static) web page linked somewhere with status of each site? Level of effort?		
4700	I got a bug report for tinterpol_mxn.pro. The problem is that it won't properly interpolate a tplot variable with a V quantity if the variable that it is being interpolated to does not have a V quantity. (ie interpolating a spectral quantity with y-axis bins that vary over time to a linear quantity.)	7/11/2012	Pat			Should be easy to fix, and should be fixed.		
4701	cotrans problem, DSL->GSE for THC	7/12/2012	John Podesta		Cindy	Z component of velocity moments should have nearly opposite signs between GSE and DSL for THC, but don't...is this a problem? Probably working OK, Cindy to provide test results we can send to John P.		
4702	Tony Lui help request...sun contamination still seen when using thm_load_sst2	7/12/2012	Tony Lui		Pat	In progress...he may need to adjust the parameters for sun contamination removal, or do it manually.		
4703	New FGM overview plots (EMIC spectrograms)	7/12/2012	Vassilis			A copy of the IDL code, along with the IDL save sets we used as data and a full day's set of plots from January 1, 2012, can be found at ftp://yspace.augsburg.edu/themis/. You will see that the IDL batch file is set up to produce one daily spectrogram and four 6-hour spectrograms for each axis, in two frequency ranges (0-1 and 0-2 Hz). It didn't take Jennifer very long to produce all of these plots for the past 1 - 1/2 years of Themis data. Having so many different plots may be overkill -- one can often identify events using only the 0-2 Hz, 24-hour plot showing only X axis (transverse to B) data... but you can decide how many of these might be optimal for you to produce. If you or your colleagues have any questions, please get back to Jennifer (posch@augsborg.edu) or me.		
4704								
4705								
4706								
v7.0 QA Tasks for Review with Vassilis								
General								
Tips of the Month			David		Jim L	Next Candidates: Lynn Wilson Routines; Eclipse auto processing; FGM Reprocessing, CDF library 3.4.1 released (fixes memory issue for Linux users)		
4664	Laptop locks UCB and UCLA	6/6/2012	David	0	Team			
4695	GUI API for other missions to add GUI tabs, load routines, etc	7/6/2012	Jim L	2	Jim L, Developers	Cindy provided initial writeup, team to discuss and refine, present to Vassilis with estimated level of effort.		

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Hannes								
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List up to date as of 6/25/2012		
4018a	New Calibration FGM parameters and spin axis offsets	5/10/2010	Hannes	1	Hannes	7/02/2012: THA spin axis offset done 7/6/2012, thd and the in progress.		
4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes	Should be updated by end of June 2012.		
4472	Inter-spacecraft FGM calibration for ARTEMIS.	1/4/2012	Vassilis	1	Hannes	6/4/12 from Hannes: Artemis inter spacecraft differences		
Aaron								
4493	2D slices, 1.5D Pitch Angle Distributions - command line in progress; GUI?	1/23/2012	Vassilis	1	Aaron	7/13/2012: Andrei might have a bug report or require some clarification.		
4494	2D slices, 2D Pitch Angle Distributions - command line in progress; GUI?	1/23/2012	Vassilis	1	Aaron	7/13/2012: Andrei might have a bug report or require some clarification.		
4463	file_http_copy support for proxy servers	12/12/2011	IUGONET	1	Aaron	Verified correct headers when going through local proxy. Email sent to IUGONET team to test under their configuration, waiting to hear back from them.	1-3 hrs	
4641	thm_ui_part_getspec_options.txt:							
4641a	I think perhaps the testscript needs to be revised as it seems a bit out of date in places, and also a little confusing sometimes.	5/30/2012	Lydia	1	Aaron			
4641b	For the Angular Limits the invalid min/max behaviour is a bit counter intuitive: it truncates the value rather than setting to the last valid value. eg. 450 becomes 45.	5/30/2012	Lydia	1	Aaron	see 4646b	3 -4 hrs for all	
4641c	The processing can often take some time but an hourglass doesn't appear so it is not immediately obvious that it is busy processing stuff.	5/30/2012	Lydia	1	Aaron	Can't reproduce, maybe fixed since Lydia's report?		
4646b	It is a little weird that the getspec panel resets your settings to the last valid and then runs with last valid when you enter an invalid character or an out of range value, but if you set min greater than max, it refuses to run and requests that user correct the entry. I feel like it should correct user entry errors consistently.	5/31/2012	Pat	1	Aaron	Significant rewrite to make consistent with other GUI code - almost finished 7/13/2012.		
Cindy								
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Cindy	Next October 2012		
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, why has 2012 data stopped? Will ping again week of Jul 9.		
4696	Diagnose UATHA rsync failures	7/7/2012	Jim L	2	Cindy	David Milling replied to email 7/13/2012, possibly related to server downtime at their end. Need to compare 2012 holdings and look for differences.		
2027e	Finishing the coordinate transformation of the thm_load_state data at input, to include transformation of spinaxis attitude, need to determine keyword switch, implement the rotation of the spinaxis elevation/azimuth from gei to arbitrary coordinates (consult with Pat Vassilis)	7/1/2010	Vassilis	2	Cindy	In progress 6/15/2012. Convert ra/dec to single cartesian (unit vectors) tplot variable, then cotrans and convert back to spherical.		

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4409i	Leirvorgur (LRV) (Iceland)	10/19/2011	Vassilis	2+	Cindy	7/13/2012: Zip file received, unpacking and verification of data in progress.		
Jim L								
4692	Eclipse processing -- double entries for FGM-FIT corrections when reprocessing, missing FGM-FIT and histogram plots	6/5/2012	Jim L	0	Jim L	Need to merge rather than append incoming FGM corrections; plots generated in temp area but not copied to data directory. Prerequisite for 3093i reprocessing job.		
4693	BAU->spin model processing: 1.5 sec spin periods in spin model, but not in raw BAU sun pulse data	6/6/2012	Wen Li,Jim M	0	Jim L	THD/2012-07-01,07-02 Diagnose and reprocess L0->L1, L1->L2, summary plots. Fixed except for summary plots, need Jim M to help reprocess (outside 10 day window now).		
3093	Automate processing of eclipse sunpulse data from FGM team	2/22/2010	Jim L	1	Jim L	Once prod reprocessing complete send announcement.		
3093g	production cron job	2/22/2010	Jim L	1	Jim L	testing in progress		
4613	Prevent Email Storms when data servers go down	4/25/2012	Jim L	1	Jim L	cronwatch script converted, next will be VC, L0->L1, ephemeris, state V02, overview plot scripts.		
4613c	Modify existing processing scripts to log to the database rather than send their own emails	4/25/2012	Jim L	1	Jim L			
3093i	reprocess entire mission - notify Jim M and Tami before doing	2/22/2010	Jim L	1	Jim L	To start week of July 16 (when Jim M is back from vacation). 4692 bug fix a prerequisite.		
Jim M								
4152	verify the location of the sun-contaminated bins for each spacecraft and any change in location over time(they should change very slowly if at all). They would then re-activate the sun contamination masking. It was previously disabled because the masking was originally in the from place. Davin said that he wants to create the new configuration files that would be uploaded to the spacecraft.	10/8/2010	Vassilis and Davin	0	Jim M	Persons that can provide information are: Davin, Deron Pease/McDonald, Michael Luldam and Robert Abiad. Awaiting task 4365 (same process)		
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. Jim M has CDI cmds and spreadsheet from Jim McF, writing IDL code to generate new energy tables so onboard moments will be correct.		
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			
4688	Ensure that remote_data_dir URLs end in trailing slash	6/27/2012		1	Jim M	Had to back out change due to Davin's objection. Will look for Davin-approved workaround.		
4689	Add keyword to thm_asi_create_mosaic routine to allow setting the color of the text (in xyouts).	7/2/2012	James Weygand	1	Jim M	Jim M to send email to Weygand, let him know about the new keyword		
4458	Horae (rsync server for mirror sites) is dying and needs to be migrated to a VM Astrea2.	12/8/2011	Jon L	1	Jim M	7/6/2012: Horae is dead. Only mirror site not completely migrated is Chile, waiting to hear back from them.		
4458a	migrate Japan mirror site	40885	Jon L	1	Jim M	in progress - they have new rsync		

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4458b	migrate France mirror site	40885	Jon L	1	Jim M	7/2/2012: Difficulty connecting to themis-rsync, troubleshooting 7/6/2012: Working now!		Y
4458c	migrate Chile mirror site	12/8/2011	Jon L	1	Jim M	7/6/2012: Waiting to hear back		
4639	Also, there are a bunch of other calibration files that are used FGM and other instruments. The installation of these files is not detailed in the admin guide yet. I created a new section, with only one entry for this particular cal file type. If we want to be thorough, we should probably do the others.	5/30/2012	Pat	1	Jim M	In progress 7/6/2012		
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.		
4698	A small strange bug in calc: For an arbitrary tplot variable, this operation computes +1 correctly. calc," 'thc_efs_0_dsl_offset1'=((('thc_efs_0_dsl' - 'thc_efs_0_dsl') + 1.) " However, this one computes -1 incorrectly: calc," 'thc_efs_0_dsl_offset1'=('thc_efs_0_dsl' - 'thc_efs_0_dsl' + 1.) " " I.e., it appears nested parentheses are critical for correct operation.	7/6/2012	Vassilis	0	Pat	"+" has higher precedence than "-" in the grammar, need to make them equal. Same issue exists with "*" and "/" operators.		
4697	Create a set of Benchmark Tests against IDL future versions (now for v8.2 beta). Run these tests and produce a report. In addition present this report to Exelis in a web conference with a demo of TDAS. Benchmark Tests should include tests for PC, Mac (leopard and lion) and Linux O/S.	3/21/2012	David	1	Pat	Write up findings and present to Exelis (Formerly task 4458 – changed due to unrelated task with same number) 7/24/2012 will do dry run of presentation.		