Task #	Task Description	Date	Departed By	Dri	Assigned To	Notes		A&E crib;
Task#	rask Description	Opened	Reported By		Assigned To	Notes	Estimate	script; suite; UG; DevG; Qref; AdmG
	To be Assigned or Discussed				,			
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?		
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@augsburg.edu) or me.		
4704	I'm getting a collision in the y-title and the y-labels using default settings. It may indicate some sort of problem.	7/17/2012	Pat			Attached is an image of the problem, only seems to be occurring on the spectral plot. (see how 31 kev is sitting on top of thc_psif_en_eflux) (also, why the default label is 31 kev is another issue, but less important, imo) I generated these plots by running the attached code, then opening the gui and using the manage data->import option to import thc_psif_en_eflux, and thc_psif_density. Clicked through the confirm import menus, then plotted using layout options on default settings.		
	The changes that I made to allow more flexible tick aesthetic tick placement don't seem to be working so well on the z-axis.(see image from previous email,steps of 0.9 orders of magnitude don't make sense)	7/12/2012	Pat			If this were the y-axis, you could just change the recommended number of ticks to a number of ticks where the aesthetic selection algorithm selects an even order of magnitude. But that option is unavailable on the z-axis. There are two ways that we could deal with this. #1 use the previous, more restricted, tick selection algorithm for the z-axis. or #2 Allow the user to input a recommended number of ticks even when the "aesthetic" option is selected.  I prefer #2 since it solves the more generic problem with the z-axis of being stuck with a number of nicely placed ticks that you can't control or a number of poorly placed ticks that you can control.		
4706	Missing data from McGrath and Kiana magnetometer sites	7/18/2012	Cindy	0	Cindy	Sites are reported as working, but no recent files at the other end, so nothing for wget to pick up. Contacted Harald Frey and lan Schofield 7/18/2012. Diagnosis in progress.		
4707								
4708								
4709								
4710				-				

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		Opened					Estimate	script; suite; UG; DevG; Qref; AdmG
	v7.0 QA Tasks for Review with Vassilis							
	General							
	Tips of the Month		David		Jim L	Next Candidates: Lynn Wilson Routines; Eclipse auto		
						pprocessing; FGM Reprocessing, CDF library 3.4.1 released (fixes memory issue for Linux users)		
	Laptop locks UCB and UCLA	6/6/2012	David	0 1	Team			
4001	I tried to load 3dp datatype pm for 2012 - the testscript says to check availability at http://sprg.ssl.berkeley.edu/data/wind/3dp/ and test different combinations. There are cdfs for 3dp pm for 2012 on that site, but the have are _v05 and don't load. Should they load?	6/6/2012	Lydia	•	Jim L	Wait till after WIND reprocessing and see what happens to version numbers, if they're all consistent then 5 minute change to load routine. Will not do "load highest version" responsibility of WIND developers.		
4647	I am reviewing a paper for GRL that uses THEMIS data incorrectly. Basically, the authors are trying to publish solar array switch spikes as evidence for DLs. I am sorry that I cannot give you more details. will notify the editors of this problem. However, it is entirely possible that such a paper could have been published and I want you to be aware of this problem. Perhaps a warning should be posted on the web site: (1) Axial boom data are not necessarily valid, particularly in the problem.	6/1/2012	Bob Ergun - Colorado U	1	uel	Will discuss with David 6/18. All changes need to be approved by John Bonnell (very busy with RBSP at the moment). David will wrap up. Emmanuel made changes in beta site 7/5/2012.		
4695	in the subsolar region. (2) THEMIS EFI data have unwanted "spikes" which come at four times per spin. These spikes are removed in released THEMIS data analysis programs, but the removal process can leave a residue.  GUI API for other missions to add GUI tabs, load routines, etc	7/6/2012	Jim L	2		Discussed 7/16/2012, JWL to write up proposed tasks, distribute to external devs for feedback.		
	Hannes							
	maintenance of gmag stations "Exclude List"  New Calibration FGM parameters and spin axis offsets	10/11/2010 5/10/2010	David Hannes	0	Hannes Hannes	Exclude List up to date as of 6/25/2012 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	Updated for inner probes, 2012-07-18		
4472	Inter-spacecraft FGM calibration for ARTEMIS.	1/4/2012	Vassilis	1	Hannes	6/4/12 from Hannes: Artemis inter spacecraft differences		
	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		
4493	2D slices, 1.5D Pitch Angle Distributions - command line in progress; GUI?	1/23/2012	Vassilis	1	Aaron	7/20/2012: Code is working as intended, but could use some simplification.		
4494	2D slices, 2D Pitch Angle Distributions - command line in progress; GUI?	1/23/2012	Vassilis	1	Aaron	7/20/2012: Code is working as intended, but could use some simplification.		
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	
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Task#	Took Departmen	Date	Deported By	Pri	Assigned To	Natas		A&E crib;
Task#	Task Description	Opened	Reported By	FII	Assigned 10	Notes	Estimate	script; suite; UG; DevG; Qref; AdmG
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	7/20/2012: Rewrite needed, in progress.		
	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	
	bug reports getspec GUI suite					T/00/00 / 0		
4646a	When I try to plot a spectral quantity as a line plot, it uses the y-axis limit as the default, it should actually use the z-axis limit as the default. (Because a line plot for a spectral quantity actually ends up being an X v. Z plot not an X v. Y plot) This is a side-effect of our more thorough implementation of range defaults. Not a huge issue and easy to fix.	5/31/2012	Pat	1	Aaron	7/20/2012: In progress		
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	Done.		
4646c	11.b.i indicates that -20.5 is an invalid entry and should be reset. It actually isn't. It looks like this section was written for testing a valid range between [0,360] when the actual valid range is [-180,180]	5/31/2012	Pat	1	Aaron	validate test instructions	1-2 hrs	
	Annotation precision with decimal notation was confusing for me eg I had two ticks at 452.59 and 0.148 when the precision was set to 1.234. When you click auto without changing the precision it changes the annotations to 452.6 and 0.1484	3/15/2012	Lydia	1	Aaron	Jim L to dig up original bug report from TDAS 7.0 QA.		
4683	Aaron reported that if he switches between hardware and software rendering mode in the GUI when the level of zoom is not 100%, it changes the size of the draw area. If you do this repeatedly, the draw area gets smaller with each switch.	6/26/2012	Aaron	1	Aaron			
4685	Widget tree expansion, IDL 8.2	6/26/2012	Pat	2	Aaron	IDL fixed a bug which we had worked around, need a version check to enable/disable the workaround so it will work on all IDL		
	Cindy					versions.		
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Cindy	Next October 2012		
4701	cotrans problem, DSL->GSE for THC	7/12/2012	John Podesta	1	Cindy	Z component of velocity moments should have nearly opposite signs between GSE and DSL for THC, but don'tis this a problem? Probably working OK, Cindy to provide test results we can send to John P.		
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. Still waiting to hear back from Sasha.		
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 differneces.7/20/2012: Error messages have stopped, now fixed on their end?		

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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. 7/20/2012: Coding finished, testing in progress		
44091	Leirvorgur (LRV) (Iceland)	10/19/2011	Vassilis	2+	Cindy	7/13/2012: Zip file received, unpacking and verification of data in progress. 7/20/2012: Unpacked files look OK, testing installation script, will check into SVN when working.		
	Jim L						***************************************	
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			
4613c	Modify existing processing scripts to log to the database rather than send their own emails	4/25/2012	Jim L	1	Jim L	7/20/2012: Next batch of updates will be GMAG download scripts	***************************************	
3093i	reprocess entire mission - notify Jim M and Tami before doing	2/22/2010	Jim L	1	Jim L	Done, 7/20/2012		
4656	THEMIS Orbits - Discuss with Dan Cosgrove on July 9th. From time to time, the first orbit determination after a manuever is very "raw" due to the shortness of the arc, causing large discontinuities in definitive position ephemeris when the arc is propagated back to the manuever burnout time.	6/4/2012	Vassilis	n/a	Jim L	Dan C. and Jeff M. suggest that after each maneuver or series of maneuvers, the MOC can curate the orbit determination data so that the back propagation is done from a higher quality orbit solution (e.g. 7 days rather than a few hours). There will still be discontinuities but they should be much smaller. MOC will provide improved definitive ephemeris files to JWL (est. late August 2012). We will reprocess a few days of L1 STATE for each		
	Yesterday, we did a data dump on the flatsat, which contained a couple hundred packets of engineering data. We then "restored" the segment and dumped it again. Then we let data accumulate over night. This morning, we dumped the segment again, and while dumping sent the restore command. This test is essentially to see if the same data we dumped yesterday are available in the second dump and what effect if any sending the restore command during the dump might have had. Mark asked me to forward the two files to you. In the first, the first data dump after the first "restore". In the second, the second data dump with a "restore" while the dump was in progress. /home/jmcd/test_data/SSL.FLATSAT.TLM_VC3.2012_145_173946 .0 home/jmcd/test_data/SSL.FLATSAT.TLM_VC3.2012_146_182430. 0 (or do you need the other VC files, too?)	5/30/2012	John McDonald / Jim Lewis	0	Jim L	From what I saw in apid 410, it looks like the dump strategy worked as intended, and we got both copies of the original engineering segment contents, with no ill effects on the VC->L0 processing due to duplicated or out of order packets. Is that enough to declare success, or would you like me to look at some other apids? MOC wants to do some additional flatsat testing under various conditions; JWL to analyze test data and assess impact on apid 410 data. 1/2 hour per test.		

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4034a2	thm_parts_moments update (spin moments mods)	11/22/2010	Vassilis	0	Jim L	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. Waiting on Ben to finish 3093 so I can start testing.		Quo, name
4509	Some array accesses still use () instead of [].	2/6/2012	A. Breneman	1	Jim L	For example the ESA packet loading routines, thm_load_peif, thm_load_peeb. Work to be done when 4034a2 work continues		
4326b	Then for Particles and Spin Fits	8/18/2011	Vassilis	0	Jim L	in progress - dependent on 4034a2.		
4326c	reprocessing for the moments and spin fits	8/18/2011	Vassilis	0	Jim L	on hold until 4034		
4667	(Not 8.2) If the user selects "No" on the prompt to overwrite an existing themis document a second dialog window pops up with the message "Save cancelled by user". This seems unnecessary.	6/7/2012	Lydia	1	Jim L	in progress - eta 6/22	10 min	
	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. 7/20/2012: Table generation script finished and checked in. Ready to test table updates on FLATSAT (in between maneuver sims). After that, modify mode change scripts & test on FLATSAT, then proceed to testing on ARTEMIS probes.		
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			
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. Additional note: people using putty/pageant on 64-bit machines should make sure they're using the latest version of putty, otherwise will have hard-to-diagnose access problems.		
4688	Ensure that remote_data_dir URLs end in trailing slash	6/27/2012		1	Jim M	Davin objected to mods to file_retrieve, so mods need to happen in thm_load_xxx and other routines that call file_retrieve.		
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		

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	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.		
4458c	migrate Chile mirror site	12/8/2011	Jon L	1	Jim M	7/6/2012: Waiting to hear back		
	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. 7/20/2012: Cal file installation scripts being updated, will document in admin guide when ready.		
	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.	***************************************	
	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 at 2pm. WebEx with Exelis 10am PDT 7/25 (Wednesday)		
	if you followed the right set of instructions, you could create a set of plots that is clipped off screen. I verified that this is not an IDL 8.2 issue and occurs on IDL 7.0 as well.	6/27/2012	Pat	1	Pat	"The following steps reproduce the error consistently on Mac (I was unable to reproduce it on Windows). i. increased the size of the current page (containing plots) (I used 12 x 16 inches) ii. zoom out until horizontal scroll bar disappears iii. create a new page iv. add plots to that page The plots I got were clipped on the left side. It appeared as though the dimensions of the plots from the previous page may have still been in use. Switching pages does not correct the issue. The page's dimensions can be made large enough to fit the plots, but the error reoccurs when the dimensions are returned to the default values. Zooming corrects the issue if you zoom in to 100%. Loading a saved file does not appear to reproduce the bug."  7/20/2012: Was blocked by task 4683 (Aaron needed to work or exact same code), can proceed now.		
4690	The query to overwrite data has not been implemented for the goes, wind, and ace tabs.	7/2/2012	Pat	1	Pat	7/20/2012: Finished today?		
	We added a feature to remember which selection a user has made for overwriting to the load THEMIS data tab. This information is stored in the THEMIS document so when you replay the document, you don't have to spent several minutes clicking yes and no furiously. (this also avoids errors that would occur if you make a different selection when replaying the data) This feature has not been implemented for the data processing operations. (We would want to do this for the wind, ace, & goes tabs when we do 4690 too)	7/2/2012	Pat	1	Pat	7/20/2012: Finished today?		
	There were several reports that the dproc window was too small in IDL 8+. It looks like this is a side effect of the font change.	6/27/2012	Pat	2	Pat	For whatever reason, many widget sizes are specified in characters, instead of more standard units. This means that if the base font size of a character changes, so does the size of a viewable area. Just an FYI, I'm going to be rolling this one into the font size one. I'll list it as a reason why the font size change is such a pain in the rear.		