

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								
4200	Yuri has generated a 3 parameters for the THEMIS spacecraft L,L*,Mlat. These parameters are very useful scientifically. The task would be to archive these parameters in CDF and add a load routine in TDAS to read them. Currently, the data will be made available to us by Yuri via tab separated ascii files.	1/19/2011	Yuri Shprits	2	Ben	part of the state cdf - do we want to do? Still a priority '2' after 1 1/2 years?		
4632	Just had a question about pseudo-variables, Stefan was wondering about setting colors for pseudo variables. This is a features that we have not yet implemented. (You can set colors on pseudo variable components, but not at the top level).	5/21/2012	Pat	?	Aaron	4-8 hours with testing to add the custom colors feature for pseudo variables. Once in place it may be easier to add other similar features as well	4-8 hrs	
v7.0 QA Tasks for Review with Vassilis								
4525	GUI feature pruning: many settings (text fonts, label positioning etc) perhaps better performed using external tools (Illustrator, GIMP, etc.) rather than supported directly in TDAS	2/28/2012	Pat			Maintaining the multitude of settings in the GUI ends up taking a lot of development and testing time, so, in theory, we could be more efficient. The types of things we would want to refocus on improving would be the variety of data types available, the quality of data processing routines, and some aspects of the annotation and data viewing. Of course, this wouldn't have to be done all at once, it would be more just a decision to change our development direction a little bit.		
4526	Set lazy labels in TDAS load routines?	2/28/2012	Lydia			thm_cotrans sets lazy labels on tplot variables it generates, but load routines do not. Should we also do this in the load routines, for consistency?		
4528	X-axis options with locked panels	2/29/2012	Lydia			set all panels' set by default on opening panel, if axes locked. Somewhat confusing, behavior not the same for all tabs.		
4537	Deletion of data not reflected in saved/reloaded THEMIS document. Formerly QA206.	3/2/2012	Lydia		Pat	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).		
General								
4607	?linux - bug in memory management with cdf libraries (after loading one cdf)	4/1/2012	Pat		Tami - SPDF	Tami will check on.		
Hannes								
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List updated 7/11/11. David 5/4/12: Has this been updated since?		
4018a	New Calibration FGM parameters and spin axis offsets	5/10/2010	Hannes	1	Hannes	updated 4/3/12		
4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes	What is the status?		
4472	Inter-spacecraft FGM calibration for ARTEMIS. David 5/4/12: is this ready to be worked?	1/4/2012	Vassilis	1	Hannes			
Aaron								

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E; crib; script; suite; UG; DevG; Qref; AdmG
4493	2D slices, 1.5D Pitch Angle Distributions - command line in progress; GUI?	1/23/2012	Vassilis	1	Aaron	Andrei and Xuzhi to test further		
4494	2D slices, 2D Pitch Angle Distributions - command line in progress; GUI?	1/23/2012	Vassilis	1	Aaron	Andrei and Xuzhi to test further		
4530	When I despike thd_peim_flux on 2-10-12 I am left with data points that I expect should have been removed. All the spikes were surrounded by NaNs, but the those that consisted of more than one data point were removed while those that were only a single point were not. The values of the single-point spikes were comparable to those of the others. Aaron 5/1/12: I think the issue here is that the routines used to determine where spikes exist are not particularly good. It's hard to say how long it will take to gain a substantial improvement until I've looked into it a bit more. Routine works as it suppose to.	3/1/2012	Aaron	1	Aaron	e.g. 3 and 4 were removed but 1 and 2 were not 1: 271376.90 NaN -2.4147143e+009 NaN NaN 2: NaN NaN 1.8829594e+009 NaN NaN 3: NaN NaN -2.5399129e+009 2.4763575e+009 NaN 4: NaN -2.5399129e+009 2.4763575e+009 NaN NaN		
4536	GUI Slices:Step 8 g) Annotation precision only changes z axis labels (not x, y) . Is that as intended?	3/1/2012	Lydia	1	Aaron	Aaron completed analysis - it can be done.	2-4 hrs	
4503	thm_load_fgm does not throw error for invalid probe, only prints a message...should this be a more severe error?	2/3/2012	Ben	1	Aaron	Will remove thrown-error from thm_check_valid_name.pro (restore it to its previous version), and instead of throwing an error, the load routine will be modified to keep track of the requested inputs and processed inputs, and provide a summary/error report at the end of the load routine.	1-3 hrs	
4464	mods for file_retrieve, determine remote & local parts from URL returned by query from metadata DB	12/12/2011	IUGONET	2	Aaron	item 3.4.2 from presentation		
4463	file_http_copy support for proxy servers	12/12/2011	IUGONET	2	Aaron	item 3.3 from presentation		
Ben								
4616	Chile having download issues	4/26/2012	Marina Stepanova	0	Ben	Email sent 5/21/12 - awaiting response from Chile		
4612	GOES 2008 Data	4/20/2012	Andrei Runov	0	Jim L / Ben	Jim to sent email to Howard - on hold until data arrives. Email sent on xx/xx/12.		
3093	Automate processing of eclipse sunpulse data from FGM team	2/22/2010	Jim L	1	Ben	Reprocess L1 State Data into QA (two months of probe 'D') - bells and whistles will be added (fgs data?)		
3093d	Reprocessing	2/22/2010	Jim L	1	Ben			
3093e	Update Admin Guide	2/22/2010	Jim L	1	Ben			
3093f	production cron job	2/22/2010	Jim L	1	Ben			
4458	Horae (rsync server for mirror sites) is dying and needs to be migrated to a VM Astrea2.	12/8/2011	Jon L	1	Ben	** In Progress ** Testing with UCLA; Once UCLA has completed the catch up rsync to test the UCLA data with the GUI doing loads, creating plots.		Y
4458a	migrate Japan mirror site	12/8/2011	Jon L	1	Ben			
4613	Prevent Email Storms when data servers go down	4/25/2012	Jim L	1				
4613b	Write and test a few simple shell scripts to manipulate the log database (probably one to log errors to the DB, one to query for errors and make a single email notification):	4/25/2012	Jim L	1	Ben		2-4 hrs	
4613c	Modify existing processing scripts to log to the database rather than send their own emails	4/25/2012	Jim L	1	Ben	15 minutes per script, times 10-20 scripts	3-5 hrs	

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E; crib; script; suite; UG; DevG; Qref; AdmG
Cindy								
4479	themis dependencies in ssl_general	1/9/2012	Davin	1	Cindy	I have made all the modifications to the source code that will remain in ssl_general (that is, removed thm_routines and replaced them with generic code). These routines have been released to the repository. What remains are only a handful of routines that need to be copied from ssl_general to themis. It is a trivial thing to do, however, I do not have command line svn to ensure the proper copying of the code within the repository. I do have Windows TortoiseSVN however, it doesn't seem to work quite the same, so I don't trust it to preserve the history.		
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			
Jim L								
3093	Data verification of QA sample data for eclipse spin model corrections							
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.		
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_peek. 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 3093 is done (task 3093 assigned to Ben)	3-4 weeks depending on pri zero tasks	
4510	Remove incorrect FGM range correction code from thm_cal_fit	2/10/2012	Jim L	1	Jim L	FGM range correction is already applied in the L0->L1 processing. Code is disabled by hard-coding a variable value, but should be completely removed. Does this routine actually need the thx_fit_hed data it's trying to use?		

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E; crib; script; suite; UG; DevG; Qref; AdmG
4451	operating the particle instruments in "accumulate" rather than "snapshot" mode. So we'd be getting into some unexplored territory. The time tagging code in the L0->L1 particle distribution processing would need some slight modifications to support "accumulate" mode. The ESA load routines use the L0 packets directly, and probably also assume "snapshot" mode, so that's another potential set of required modifications. I wouldn't be surprised if the ESA and SST calibration code also assumes snapshot mode. It would need to be tested with real data (since we have no way to generate a realistic particle data stream on FLATSAT).	12/1/2011	Vassilis	1	Jim L	5/21/12 as per Vassilis - give it a shot; Awaiting flatsat availability - after SST table updates		
4451a	accumulate mode	12/1/2011	Vassilis	1	Jim L	flatsat testing l0-l1 mods;		
4451b	tdas mods - if accumulate mode approved discuss at S/W meeting	12/1/2011	Vassilis	1	Jim L	double check slices and getspec as per Aaron		
Jim M								
4634	L2 FFT data bad from mid April	5/21/2012	Jim M	0	Jim M	Let Vassilis know		
4631	Poynting flux from Themis from Chris Cully : I've now finished up looking at how to calculate Poynting flux for Themis. The relative phase now checks out quite well, and the Poynting flux is consistent whether it's calculated in the time or frequency domain, which gives me confidence that I've tracked down all the factors of 2, FFT normalizations, etc.	5/18/2012	Vassilis	0	Jim M	Let Vassilis know		
4365	reverse-engineer the process of updating the onboard tables that define the ESA and SST angle/energy modes. Jim M: he process of creating the RAW commands will result in an IDL routine which has the same functionality as the "lost" code that Davin wrote in 2008. This will make future changes easier.	9/8/2011	Vassilis	0	Jim M			
4365g	If all goes well: Ops team: Run the EEPROM update script on one of the probes. Verify that the EEPROM update has effected the desired changes.	4/11/2012	Vassilis	0	Jim M, Jim L, Ops Team, Science Team	awaiting Ops Team to run another flatsat test then upload to Probe A.		
4365h	If something goes wrong on FLATSAT: Diagnose what went wrong, restore EEPROM to what it was before the test, retry with corrected table update procedure.	4/11/2012	Vassilis	0	Jim M, Jim L, Ops Team			
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 Luldham and Robert Abiad. Awaiting task 4365 (same process)		
4152a	change the SST tables to mask view directions that are affected by the sun. We need to do this for the reduced distributions only. If it can be done for the moments too it would be great. WE need to find the masking tables that were input before in 2007 and rescinded sometime in 2008 - but the actual bins that require masking are different than before.	10/20/2011	Vassilis	0	Jim M			
4003	Document: ESA File and Calibration Processing	3/5/2010	David	1	Jim M	next Up		

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E; crib; script; suite; UG; DevG; Qref; AdmG
Lydia								
4629	CARISMA gmag data We haven't received any data since May 9th. A few day delay is not unusual, but this does seem long. The download script is showing an rsync error 12. I've emailed the CARISMA team and they say the data is there and they know of no problems at their end (though they are looking into it for me).	5/18/2012	Lydia	0	Lydia	in progress -5/21/12 - major disk failure at their end		
4481	New data product, AE index from THEMIS+std sites	1/9/2012	Vassilis	1	Lydia	awaiting Russian data		
4312	Quality flags for efi are wrong including electric field offsets in computation.	8/8/2011	Vassilis	1	Lydia	Hold until June - then talk to Michael Hartinger		
4409b	Dixon (DIK) (AARI, Russia)	10/19/2011	Vassilis	2+	Lydia	4/24/12: Vassilis received response and we are awaiting more detail		
4409l	Leirvorgur (LRV) (Iceland)	10/19/2011	Vassilis	2+	Lydia	code to download and process is done and Iceland can make the data available. 5/10/12: Awaiting past data in zip file will be awhile.		
Pat								
4458	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	(50% Time) - awaiting beta v8.2 from Exelis		
4504	Updated FGM calibrations for solar array currents, ADC nonlinearity available?	2/3/2012	Pat	1	Pat	These usually come from David Fischer in Germany, separately from the cal files Hannes periodically updates. Pat sent email and David Fischer answered as follows on 4/25/12: For solar array calibration this is my fault. Uli and Karl-Heinz reminded me several times during the last months, but I was just too busy with MMS and Bepicolombo work. I will try to get it running within the next weeks. 5/25/12 Pat to ping David.		
4470	Pre-deployment summary plot QA script	1/4/2012	Jim L	1	Pat	Check that summary plots are produced, and that they're roughly correct, before pushing updates into production. In progress		