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							
4600	Overview plots - web behaviour - browser will keep a copy of the image will not always reloaded	12/30/2011	Pat	0	Emmanuel?	Modify web server config to send cache control headers, so clients can detect stale files that need to be reloaded.		
4601	Plot templates (autoplot version, different from TDAS templates)	12/5/2011	John Bonnell	?	?	For discussion with Vassilis		
4602	GUI and Illustrator	2/28/2012	Pat / Aaron	?	?	For discussion with Vassilis (Pat's email)		
4603	SST new Cal in GUI and make new SST Cal standard	3/22/2012	Vassilis	?	?	For discussion with Vassilis		
	v7.0 QA Tasks for Review with Vassilis							
4500	Velocity cotrans between non-inertial systems	2/2/2012	John Bonnell			John Bonnell had some questions about how TDAS transforms velocity between inertial and non-inertial systems as well as some ideas about how to make these features more useful to scientists.		
4501	Documentation links from THEMIS web site should be http: instead of ftp: links.	2/2/2012	Jim L			Mac Safari users had trouble downloading users guide, etc. during a TDAS training session. FTP links not firewall-friendly.		
4502	FTP site access	2/2/2012	David		David, IT	Any way to make THEMIS FTP site more accessible to Mac/Safari users?		
4495	Cotrans routines not checking st_type to warn about cotransing velocities	1/21/2012	Jim L					
4497	Need axis titles for the GUI. This is a pretty big limitation insofar as almost all plots end up combining component labels with axis titles. (Often labels on one side and axis titles on the other.)	1/27/2012	Pat			Post-TDAS 7.	1 week?	
4498	sst contamination removal: excessive console output if no bins selected	1/30/2012	Jim L			Noticed in CL contamination test. May be hard to move that warning out of the loop.. Post-TDAS 7, if at all.		
	Hannes							
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List updated 7/11/11		
4018a	New Calibration FGM parameters and spin axis offsets	5/10/2010	Hannes	1	Hannes	**new Arthemis offsets sent to Karl-Heinz on 11/21/11; reporcessing after AGU for the STATE**		
4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes			
4472	Inter-spacecraft FGM calibration for ARTEMIS	1/4/2012	Vassilis	1	Hannes			
2074c	quality flag for FGM data		Vassilis	2	Hannes	quality flags for FGM data: Hannes talked to Ferdinand and suggests some flags in the state CDF: times when eclipse spin model adjustments were performed; times when spin fit & FGL data used to refine the eclipse spin model; times when V03 attitude corrections are available; times when spin fit timing had problems. Some of these flags already present in state CDF spin model variables. JWL will document in L1 file definition document. Final item not so easy, since we have trouble even detecting the timing problem in spin fits. Keep task open, **Vassilis says we can come back to it when we have clarity on the spin fit timing.**		

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4058	This is getting a bit out of hand I think. How about a configuration file? The software just reads keywords from a configuration file. With such a configuration file it is possible to set keywords automatically (for the scientists) but additionally it would give us the possibility to keep track of what the software does automatically. When I do calibrations I can then save the configuration file together with the results and not worry about the things that the software might have done automatically.	5/10/2010	Hannes	3	Hannes	Hannes sent out new version for review.		
	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		
4421d	User's Guide			1	Aaron	add reference to thm_soc_135_time_conventions document (QA prep)		
4493	2D slices, 1.5D Pitch Angle Distributions - command line in progress; GUI?	1/23/2012	Vassilis	1	Aaron	**We need collapsed BV plots. I.e., we often do not care about gyrovelocity direction but only pitch angle direction. The electrons especially (but sometime ions too) are gyrotropic. Then we can increase the counting statistics if all the look directions with the same pitch angle (but different phases) are averaged into a single point. in progress**	3 days	Y
4494	2D slices, 2D Pitch Angle Distributions - command line in progress; GUI?	1/23/2012	Vassilis	1	Aaron	**We sometimes need cuts in a very special direction: B-M, 2D cut, where the P direction is normal to a specific, user-specified N direction. The N direction needs to be specified by the user as (1,0,0) or (0,0,1) etc. Then the cut would be made such that M isalong the NxB direction, such that M,N,B form an orthogonal system. In progress**		
4441	bugs in tplots handling of labels	11/23/2011	Aaron	1	Aaron			
4441a	It looks like the LABFLAG option, which controls where y-azis labels are placed in tplot, is not applied correctly for compound variables. Specifically, the option to draw evenly spaced labels doesn't account for the labels from all the component tplot variables and end up drawing them on top of each other.	11/23/2011	Aaron	1	Aaron	testing in progress,		
4340	Anything you can do to accelerate the geometric method?	8/22/2011	Vassilis	3	Aaron	**on hold**	3 days	
	Ben							
4458	Horae (rsync server for mirror sites) is dying and needs to be migrated to a VM ASAP.	12/8/2011	Jon L	0	Ben	Use new UCLA mirror site as test case for new server, or maybe Chile since UCLA will take a while to set up. Clarina awaiting for Greg to retrun to SSL.		
3093	Automate processing of eclipse sunpulse data from FGM team	2/22/2010	Jim L	1	Ben			
3093a	Automate processing of eclipse sunpulse data	2/22/2010	Jim L	1	Ben			

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3093b	apply eclipse sunpulse correction to FGM and State data	2/22/2010	Jim L	1	Ben	**In progress. Reprocess all FGM and State Data or not - talk to Vassilis.**		
3093c	integrate into L1 pipeline	2/22/2010	Jim L	1	Ben			
	Cindy							
4489	TDAS cotrans to magnetic coordinates?	1/12/2012	Cindy	2	Cindy	awaiting Andrei and Xuzhi review; questions for Jim L		
4465	neutral_sheets - add to TDAS	3/26/2012	Vassilis		Cindy	Testing		
	Jim L							
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. On hold, after QA. Jim McFadden (as of 3/26/12) said he would review what Jim L sends him.	3-4 weeks depending on pri zero tasks	
4326b	Then for Particles and Spin Fits	8/18/2011	Vassilis	0	Jim L	in progress - dependent on 4034a2. On hold, after QA.		
4326c	reprocessed	8/18/2011	Vassilis	0	Jim L	**on hold 3093 is done (task 3093 assigned to Ben)**		
4142	issue with FGS processing - timestamps	9/30/2010	Vassilis	0	Jim L	not trivial	3-5 days	Y
2266	Timing of Spin Fit data	10/16/2009	Jim McFadden	0	Jim L	see 4142		
4421	Complete Leap Second document		Jim L	1	Jim L			
4421b	L1 File Definitions		Jim L	1	Jim L	add reference to thm_soc_135_time_conventions document (QA prep)		
	Jim M							
4456	GET_MOMENT3D is bombing when it calls STORE_DATA.	3/7/2012	Peter	0	Jim M	sent new version to Peter awaiting and will check with Davin		
4457	I am not able to load Wind PM files. The code is so convoluted, I can't figure out where things are going awry, but the path it ultimately tries is invalid.	3/7/2012	Peter	0	Jim M	suggestion to Peter		
4365	reverse-engineer the process of updating the onboard tables that define the ESA and SST angle/energy modes.	9/8/2011	Vassilis	0	Jim M	steps: Create the Table Image, Create the CDI Commands, Create the IDPU Commands, Create the raw packets that go to the MOC for uplink **Have code for reading maps into memory, working on outputting IDPU commands sst angular maps are done and esa energy maps part done week of 3/26-3/30. Then flatsat testing. Send email to Ops.**		
4348	For Overview plot processing look at setting up mulitple VM processors	8/24/2011	Pat	1	Jim M			
	Lydia							
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Lydia	Next October 2012		

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4467	If I plot some data in the GUI, then I right click, then I right click again(outside of the menu that popped up from the previous right click), the tracking seems to jam up somehow. The interface stops tracking the value under the mouse cursor and right clicks won't work anymore. If I do a rubberband, or select pretty much any of the menu options from the top, the tracking will start working again.	3/26/2012	Pat	1	Lydia	**in progress - asked Pat to check it out**		
4421a	Developers Guide			1	Lydia	add reference to thm_soc_135_time_conventions document (QA prep)		
4421c	L2 File Definitions			1	Lydia	add reference to thm_soc_135_time_conventions document (QA prep)		
4481	New data product, AE index from THEMIS+std sites	1/9/2012	Vassilis	1	Lydia	**analysis in progress - talk to Vassilis**		
4274	Bob Clauer mentioned that he was interested in importing his Antarctic gmags into TDAS.	6/30/2011	Bob Clauer	2	Lydia	**awaiting Emmanuel to update web site**		
2062	Alberta - At the moment the data files are from Dawson (daws), Churchill (fchu), Island Lake (isll) and Fort McMurray (mcmu). I will add Rabbit Lake and Taloyoak at some time but we have some issues with mag pointing at those 2 sites. If you recall, the agreement between Ian and Vassilis was that this data wouldn't be copied to become part of a mirrored archive like the existing data we provide. Instead, each file would be obtained from this site each time it is requested (using curl or some such). This means we can use our own logs to monitor data usage. Themis Software to be able to retrieve from Alberta		Vassilis	2	Lydia	**Heard back from David Milling, who gave us a sample URL we can use to download CDFs with wget. Location will probably change when new server is ready. In progress.**		
4409	AE Stations: I am interested in including the "standard AE ground stations" i.e. the ones that go into the computation of the AE index - there are 12 - into the THEMIS pipeline. This is because we can then include them into the computation of our own pseudoAE. They include: FCC: Fort Churchill, LRV: Leirvorgur, a couple in Russia and one in Scandinavia etc. They should be available somehow. The ones in Russia have been made available through APL, and THEMIS has contributed to their refurbishment. I think we have established communication with APL's Kazue Takahashi and he said a couple of years ago that routine delivery of the Russian stations was impending. So by now they should be ready…I think he should be a good source of information about the other stations as well, if you cannot find them on the web by searching or at WDC Kyoto.	10/19/2011	Vassilis	2+	Lydia	Lydia: Do we want to be mirroring the data for the sites and generating CDFs as we do for the other external magnetometer sites? If so, we would need to determine where the data could be retrieved from, obtain permission to mirror it, and write download and conversion to CDF scripts. This would be a separate task for each of the data suppliers (unless there is some existing site that has the data from multiple sources). The 12 stations that are used for the calculation of the AE indices seem to be (according to Kyoto WDC): listed in tasks 4409a-4409m.		
	Pat							
4471	Support TT2000 CDF time format in cdf2tplot	1/4/2012	RBSP	1	Pat	should complete by May 2012		
4477	Reprocess SLP data for 2012 leap second	1/9/2012	Jim L	1	Pat	Pre-2012 files also need reprocessing for update to ICY/SPICE kernel. due end of June 2012	1-2 hrs	
4460	Add New Routines from Lynn Wilson	3/22/2012	Vassilis	1	Pat	also lasp code?		
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			