Task#	Task Description	Doto	Donortod By	D.:	Assistant To	Notes		A C E. orib.
iask#	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							
	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?		
	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	
4635								
4636								
4637								
4638 4639								
4039	v7.0 QA Tasks for Review with Vassilis					1		
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							
	?linux - bug in memory management with cdf libraries (after loading one cdf)	4/1/2012	Pat			Tami will check on.		
4464	All plug-ins for v7.10 - add a section to User's Guide for Plug-ins	3/22/2012	David	1	David	Discuss at the appropriate time what the content would be. Also add a link for VM on the Software Web Page or Developers web page?		
J								

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Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E crib; script; suite; UG; DevG; Qref; AdmG
	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			
2074c	quality flag for FGM data. Dependencies on Ben's tasks 3093 and JWL's tasks 4142 and 2266.		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.		
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.		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		
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		
4621	I was loading random things to test changes to file_http_copy and came across an error. I was trying to load state data in the GUI, datatype spin_tend (also happens with some of the other spin data types).	5/10/2012	Lydia	1	Aaron			

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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 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 bi 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	
	thm_load_fgm does not throw error for invalid probe, only prints a messageshould 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	
	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		
778a	Need capability to read in ASCII, CDF?, . IDL has a built in widget to specify ASCII formats.	11/21/2011	Oldie	2	Aaron	See Vassilis's files for Ascii and cdf's only analysis.		
4543	Axis options: With "bound autoscaling" or "floating center w/ span", allow units other than seconds for a time axis.	3/14/2012	Pat	2	Aaron	Floating center/span not very useful; probably exists only because SPLASH had it. Perhaps it could be removed?		
4505	Add a TDAS routine to do 1-d cuts - when ready to work send Aaron Bennenman an email for clarity of task and then review at the S/W meeting again with Vassilis.	2/6/2012	Aaron Breneman	2		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.		
	Ben	,		'	'	•		
	Chile having download issues	4/26/2012	Marina Stepanova	0	Ben	Email sent 5/21/12 - awaiting response from Chile		
	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.		
4027b	Reprocessing GOES Data	4/5/2010	Tami - SPDF	3	Ben	Reprocessing on hold until Howard Singer delivers another batch of binary GOES data files. In conjunction with task 4612.		
3093	Automate processing of eclipse sunpulse data from FGM team	2/22/2010	Jim L	1	Ben			
3093d	Reprocessing	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?)		
3093e	Update Admin Guide	2/22/2010	Jim L	1	Ben			
3093f	production cron job	2/22/2010	Jim L	1	Ben			
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3093g	reprocess entire mission - notify Jim M and Tami before doing	2/22/2010	Jim L	1	Ben			
4633	Reviewed Admin Guide - Ephemerus Manuel Processing after outage's of any sort	5/21/2012	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			
4458b	migrate France mirror site	12/8/2011	Jon L	1	Ben			
4458c	migrate Chile 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	
4625	For THEMIS code, we generally don't use thm_ prefixes on everything, only for those routine names that would otherwise be too generic (e.g. thm_load_fgm versus load_fgm, or thm_cotrans versus cotrans). I think the best way to handle this is to call out the issue in the developers guide that it's the programmer's responsibility to ensure they're not duplicating routine names that already exist in the repository, avoid overly-generic names that might conflict with completely unrelated packages, and use mission-specific prefixes where it makes sense to do so.	5/14/2012	Jim L	1+	Ben			
2046	Create a more efficient & productive prototype QA Instrument Command Line Script - first template (s) functional blocks then scripts for FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag, State, SST, ESA		Jim L	2	Ben	Save v7.0 templates and saved files.		
4455	Developer's Guide - Plug in Section - How to do, QA, Suites, Scripts, watch out fors (like erg)	3/21/2012	Jim L	2	Ben	in progress		
4532	Developer's guide update re: "touched" properties, standard way of tracking which settings were changed at user's request.	2/27/2012	Pat	2	Ben	with 4455		
4214	THEMIS Pipeline proof of concept regression tests			T		On hold, after QA.		
4214e	GMAG	3/23/2011	Jim L	2	Ben			
	AE Index	3/23/2011	Jim L	2	Ben			
4214g		3/23/2011	Jim L	2	Ben			
	mosaics	3/23/2011	Jim L	2	Ben			
42141	summary plots  Cindy	3/23/2011	Jim L	2	Ben			
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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.		
	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					•		
4613a	Prevent Email Storms when data servers go down Design database table to support logging and querying of error notifications	4/25/2012 4/25/2012	Jim L Jim L	1	Jim L			
	Data verification of QA sample data for eclipse spin model corrections							
	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_peeb. Work to be done when		
4326h	Then for Particles and Spin Fits	8/18/2011	Vassilis	0	Jim L	4034a2 work continues in progress - dependent on 4034a2.		
	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?		

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	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 I0-I1 mods;		
4451b	tdas mods - if accumulate mode approved discuss at S/W meeting	12/1/2011	Vassilis	1	Jim L	double chech slices and getspec as per Aaron		
	issue with FGS processing - timestamps	9/30/2010	Vassilis	1	Jim L	not trivial		
2266	Timing of Spin Fit data	10/16/2009	Jim McFadden	1	Jim L	see 4142		
4476	Discuss thmsoc_dp_current deployment process, avoid unintended updates from trunk	1/5/2012	Jim L,David	1	Jim L	After QA, review CDF "software version" requirement with SPDF.	1 day	
	Diagnose, repair? Spikes in FGS data.	12/14/2011	Vassilis	1	Jim L	No code changes required. Document on web site (anomalies/watch out fors) as something to be aware of		
	Modify ESA packet loading code to use standard spinmodel routines rather than deprecated ASCII files.		Jim L	1	Jim L	After TDAS 7.0.		
4430	crib for eclipse despinning code for spin fits and moments	11/9/2011	Jim L	1	Jim L	on hold- demo exists;dependent on 3093		
	quality flag for FGM data -Jim L perform analysis, define task - someone else to do development		Vassilis	1	Jim L	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.	1-3 days	
	awaiting feedback and performing analysis	11/22/2010	Vassilis	1	Jim L	Tips of the Month at some point?		
4236	Ferdinand P. suggests that we make available a diagnostic quantity produced by the eclipse spin modeling procedure. Add "phase" diagnostic quantity (from eclipse spin modeling process) to L1 STATE CDF, to give end users a sense of the expected angular error in the eclipse spin model.	5/23/2011	Ferdinand	1	Jim L			
2047	Separate E and B timestamps for spin fits: a) make a revised V02 master CDF with E and B separated b) change thm_load_fit to support V01 and V02 of the L1 CDFs c) change the L0->L1 processing code d) change the L1->L2 processing code e) test the changes, then reprocess to create the V02 CDFs (keeping the V01 files around for a while to ease the transition)	before the millenium started and when bugzilla's roam the free world	Vassilis	1	Jim L	Hard for SPDF to deal with, with their plotting tools - review priority with Vassilis; Check again with John Bonnel regarding timing differences between fgm and efi spin fits		
4070	"Add support to thm_cotrans, ssl2gse, and ssl2dsl for /pseudo_dsl keyword. If keyword is present, look for and apply eclipse delta_phi corrections as appropriate."	6/1/2010	Jim L	1	Jim L	thm_load_fit and thm_load_mom, add keyword. In progress - Will review code Davin checked-in concerning tensor quantities in thm_load_mom.		

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	cross-check SST psir6 and psif data types for excess counts in psir6	4/8/2010	Jim McFadden	1	Jim L	Jim L talked to Davin and sounds like we can shut the data off. Jim L will send email on the time saved by shutting this off.	4-5 days	,
4030b	Correct Existing Data	5/17/2010	Jim McFadden	1	Jim L	4030a prerequsite		
4030c	If scripts change - make changes to processing scripts	5/17/2010	Jim Lewis	1	Jim L	4030a prerequsite		
QA110	as you know we have a few folks here in our SPDF group who ar using the THEMIS-B and C data for a lunar project. They have found and I've confirmed through CDAWeb, that the time stamps and associated data measurements for October, 9, 2010 THEMIS B ESA, after time 15:58:40.695 are of a different resolution and the data values are either 0.0 or -NaN.	2/7/2011	Tami	1	Jim L	Web Site - instruments will have a web page with "Sources of Data Anamolies". The first one being the ESA issue		
4286	Create and maintain a list of FBK and FFT (and possibly other?) configuration parameters versus time, to be used by other researchers to located time intervals containing data that was acquired in a particular configuration. Examples (totally made up) THEMIS A Filter Bank Source Selections: 2007-02-23 - 2008-01-01 e12dc, scm3; 2008-01-01 - 2008-05-01 scm2, e34ac; THEMIS A FFT configuration: 2007-02-23 - 2008-01-01 16 frequency bins, e12dc, e56dc, scm1, scm3; 2008-01-01 - 2008-05-01 32 frequency bins, e12dc, e56dc, scm1, scm3	7/15/2011	SPDF - Jim L	2+	Jim L	phase 1 - list for next Tips of the month, phase 2 - cdf or web page: To be done before the Map in early 2013		
4301	"bad" themis thg I2 files - instrument files; L0->L1 processing produces incomplete/empty CDFs	8/1/2011	Tami	2	Jim L	one fixed - one priority 2		
2248	once in a while (maybe 10-20 occurrences per probe during the entire mission), the FGM range doesn't change on all three axes at once:	9/10/2009	Jim L	2	Jim L			
	Jim M				'			
4631	L2 FFT data bad from mid April 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.	5/21/2012 5/18/2012	Jim M Vassilis	0 0	Jim M Jim M			
	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.		Vassilis	0	Jim M			
	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		awaiting Ops Team to run another flatsat test then upload to Probe A.		

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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			
	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)		
	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			
	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			
	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			
4003	Document: ESA File and Calibation Processing	3/5/2010	David	1	Jim M	next Up		
2283b	There is another aspect to this problem. Dead-time corrections are severe for ion ESA SW data and there are no dead-time corrections for onboard moments. Some algorithm will have to be developed that does this correction after the fact. Davin develope an algorithm like this for Wind 3DP. That algorithm may not work directly due to differences in energy sweeps, but something like it could be developed for THEMIS. Davin and I can provide some advice and direction. Similarly electron onboard moments in the SW may also need some corrections this should also be worked out at the same time. **Send old code to Pat **	11/2/2009	Jim Mcfadden	1	Jim M	Jim McFadden showed me what he had in mind for improving the corrections for ground-processed moments. This involves calculating the dead-time correction based on a higher resolution energy grid, with 4 different points per output energy channel. In progress: Jim M 8/26/11: Thanks for looking at this. It also seems the the pressure tensor has some interesting spikes due to the dead-time correction, while the scalar quantities ssme to be more stable 9/23/11: Will ping Jim Mcfadden. May need additional code to convert from fluxes back to raw counts. When code written, will discuss with J McF.		
	Quality flags for efi are wrong including electric field offsets in computation. On hold until Michael Hartinger sorts out.	8/8/2011	Vassilis	1	Jim M	discuss with Vassilis		
	Angular Correction for particle data - use Jim McFadden's code if available	1/9/2011	Vassilis	2	Jim M			
4241	Dieter and I have tested the variables, there are two that don't seem to have data for the mission, and their catdesc's seem to indicate that they won't so can we "turn these off", or is there a plan to use them in the future? EFS_Q_MAG (Data Quality Parameter: set to NaN for EFS, as there is no good measure of data quality.) EFS_Q_PHA (Data Quality Parameter: Set to NaN, as there is no good way to measure data quality for EFS data.)	6/6/2011	Tami Kovalick	2	Jim M	They are empty at the moment, by design we may have a use for them in the future. Nothing needs to be done with SPDF. Look into EFS_Q_PHA and check with John Bonnell about the future. If we add these variables notify SPDF.		

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	thm_load_mom: for quantities like velocity, the coordinate system isn't stored in the meta data, and none of the units are stored in the place we normally try to store them (from Pat - Vassilis concurs) Will take a look.		Vassilis	2	Jim M			
2035	Split L1 ESA (using Thomas's routine) in master ESA data cdf		Vassilis	2	Jim M	On Hold - awaiting Jim McFadden release: Then send David Sub Task List; Calibration variables removed from L1 data master CDF. (Side note: found and reported a bug in SKTEditor, which the Goddard team has agreed to fix) Waiting for feedback from Jim McFadden about how calibration data should be handled (TH-A ASCII calibration file (used for all probes) doesn't match anything I removed from the data CDF).		
4208a	Enhanced MOM Instrument Web Pages  Lydia	3/5/2010	David	2	Jim M	Talked to David first.		
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Lydia	Next October 2012		
	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		
	file_http_copy issues	5/7/2012	Lydia	1	Lydia	few more tests to run - awaiting 4629		
	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		
	add MACCS gmag data from 2007 to our data archive. We already have MACCS data for some years and a process that automatically downloads it/converts to CDF. So the task would involve finding missing files from 2007 and feeding them into our pre-existing processing framework. It should be pretty straightforward, but probably non-trivial because of learning curve/unexpected details.	2/19/2010	James Weygand	2	Lydia	They are moving all the data to another server - on hold. Once they have completed the move we can get 2007 data and we will update scripts to handle the new data location. In progress as of 5/15/12 at their end.		
	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	awaiting 4629 and 4620 to complete		

Task #	Task Description	Date	Reported By	Pri	Assigned To	Notes	A&E crib;
I don #	rask bescription	Opened	Reported By		Assigned 10	Estimate	script; suite; UG; DevG; Qref; AdmG
	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 readyI 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		
4409b	Dixon (DIK) (AARI, Russia)	10/19/2011	Vassilis	2+	Lydia	4/24/12: Vassilis received response and we are awaiting more detail	
4409c	Cape Chelyuskin (CCS) (AARI, Russia)	10/19/2011	Vassilis	2+	Lydia	see 4409b	
	Tixie Bay (TIK) (AARI, Russia)	10/19/2011	Vassilis	2+	Lydia	see 4409b	
4409e	Cape Wellen (CWE) - closed, replaced with Pebek (?) (AARI, Russia)	10/19/2011	Vassilis	2+	Lydia	see 4409b	
44091	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.	
4409p	Update Online accesible charts	10/19/2011	Vassilis	2+	Lydia		
778b	Need capability to read in ASCII, CDF?, . IDL has a built in widget to specify ASCII formats.	11/21/2011	Oldie	2	Lydia	On hold. Also assigned to Pat. See Vassilis's files for Ascii and cdf's only analysis	
4298	the slices code should probably have a keyword to use the new SST calibrations.	7/27/2011	Pat	2	Lydia	On hold till the SST calibrations have found wider use.	
	While on the telecon with Alberta, I was looking at the IDL documentation for their built in http download object. It actually makes it look like the http authentication, with username and password would not be too difficult. Since this keeps coming up, we might want to consider dedicating a few hours of programming time to see how hard it actually is to do authenticated downloads. If it turns out not to be too hard, it would probably give us the capability to extend our system to a lo more types of data.	8/11/2011	Pat	2	Lydia	when the need arises - on hold	
	Pat	10/00/00	5				
	Overview plots - web behaviour - browser will keep a copy of the image will not always reloaded	12/30/2011	Pat	0	Pat		

Task#	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E crib; script; suite; UG; DevG; Qref; AdmG
	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.		
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 productionIn progress		
	GUI xy axis: improve aesthetic ticks  Can't save ISTP or WIND config params from GUI	2/9/2012	Pat	1	Pat	Formerly QA112, QA276. I'm not really happy with the way that the aesthetic ticks option performs if you request more ticks than the number of orders of magnitude visible on a log axis. For example, on a plot of 1-1000, it will correctly select major ticks at 10 & 100, but you can't make it put more than 2 major ticks on the axis with that range. It seems like it would make sense for it to be able to put major ticks at 10 ^ 1.5 and 10 ^ 2.5. Or if the ticks are not in scientific notation, maybe put the ticks at the nearest round number to 30(10^1.47) and 300(10^2.47). Changes persist in current session, need to write to config	1-2 days	
4310	Can't save 1317 of while coming params from Got	2/14/2012	Dell	Ċ	Fat	file & read same config file before loading ISTP or WIND data. Formerly QA130.	1/2 - 1 day	
4460	Add New Routines from Lynn Wilson	3/22/2012	Vassilis	1	Pat		***************************************	
4460-1	Include: safe, minimal effort, obvious benefit. (21)		Vassilis	1	Pat		3-4 days	
	Documentation only: LW3 has documented a routine that didn't have documentation previously, but incorporating routine body is not worthwhile.(possible bugs or too much effort) (12)		Vassilis	1	Pat		1 day	
4460-3	Don't include: Too difficult to be sure it won't cause problems, or LW3 version is worse. (24)		Vassilis		Pat	will not do		
4460-4	Not sure: Need a scientist's opinion on the benefits of the routine. (26)		Vassilis	?	Pat	Vassilis will talk to Lynn Wilson and ask the benefits of these routines		
4460-5	Not sure: Need more programmer time to make confident recommendation. (14)		Vassilis	?	Pat	Vassilis will talk to Lynn Wilson and ask the benefits of these routines		
4460-6	Helper, only include if required by an included routine. (9)		Vassilis	1	Pat			
4627b	SST: Andrei did some work that makes it look like we may need to look at the inter-anode calibrations for probes B & C.(This may be more Drew than me)	5/17/2012	Vassilis	1	Pat	Complete 4627a - d by mid summer		

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	·	Opened			_		Estimate	script; suite; UG; DevG; Qref; AdmG
4627c	SST: We need to generate a combined spectrum product that includes the FTO(low) channel. This would be adding the FTO(low) channel to the F+FT combined spectrum that we've already created.	5/17/2012	Vassilis	1	Pat			,
4267c	Write code to remove proton and electron contamination from the electron and proton distributions using data and efficiencies from the F & O channels.	6/27/2011	Pat	1	Pat	Working on noise removal, etc.		
4627d	SST: After #a-c are done, we need to reprocess SST L2 with sun contamination removed and new calibrations applied.	5/17/2012	Vassilis	1	Pat	need 4267c to be completed		
4002	Document: SST File and Calibation Processing	3/5/2010	David	1	Pat	to be completed 9/30/12		
4603	make new SST Cal standard	3/22/2012	Vassilis	1	Pat	Revisit in July ** on hold **		
	The bug that Drew had reported yesterday turned out to be not a bug, but because the bins that the sun decontamination code selected differed depending on the date selected and this wasn't clearly reported to the end-user. I put an informational message in to clarify what is happening, but after talking with Drew there are two other solutions that don't fit within the scope of QA, but would be good to consider later. There features are:  #1 Add a keyword that returns the the bins that were flagged by automatic sunlight decontamination to the end user. #2 Provide an option to window the automatic sunlight decontamination code so that one test is not applied to the entire time period.	2/22/2012	Pat	2	Pat			
2060	L2 cdf Quality Flags: for SST		Vassilis	2	Pat			
4208b	Enhanced SST Instrument Web Pages	3/5/2010	David	2	Pat	See current ESA Instrument Web Pages - Make recommendations to Vassilis to improve.		
	IDL and Mac OS "Lion" compatibility issues							
QA008	Lion IDL 7 crashes when trying to add directory to the IDL path in IDLDE	1/19/2012	Lydia		Pat	Can work around by setting IDL_PATH externally		
QA010	Lion: IDL 6.4 (PowerPC application) not supported	1/20/2012	Lydia		Pat	But there's a non-PowerPC version that works.		
	I was having some trouble getting the mouse click feature to work with the various tplot functions in TDAS after upgrading to a new system running the Lion OS. After poking around a bit it looks like there are a couple X11 settings that need to be changed to allow clicking of tplot windows (such as when using the tlimit command). In X11 preferences I enabled the following: Input: Emulate three button mouse Windows: Click-through Inactive Windows After enabling those I was able to click on tplot windows again. Just passing along the info in case there are others who may experience this issue.		Justin Lee - UCLA	1		Pat: This looks different than the instructions that we have in the quick reference guide. I think that we may need a new set of instructions for newer macs. Lydia: Justin's workaround seems OK. Add to quick reference guide and users guide.		
QA175	GUI Export to image: EPS plots sometimes look a little different than on-screen or bitmap output for plots with rapid changes	2/29/2012	Lydia		Pat	Small wiggles in bitmap plot exaggerated in EPS output, all OS-es. Report to IDL support, may need to send TDAS zip file and instructions to reproduce.		

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	I've been having some problems running the gui on linux. I think it is most likely an issue with my machine or java/eclipse versions, but I thought I'd report it in case other people had seen similar issues. If I am testing things in the gui and then type something in the IDL commandline (eg print, 'test'), IDL takes a long time to respond (sometimes minutes). This is happening when the main gui window is open, but there are no panels open and no processing in progress.  When I was first checking things on the mac with lion I noticed similar problems.  This is a new problem on linux, which is why I think it may be related to updates to my machine.	3/7/2012	Lydia	Pat	Only occurs under idlde, possibly a java or eclipse version issue.			
QA241	Slices: Step 3j) (possible bug) 2-d interpolation fails.	3/12/2012	Lydia	Pat	THM_PART_SLICE2D(766): 2D Interpolation failed due to an error in an underlying IDL math routine. Aaron to expand warning message. Root cause is an IDL internal issue, main task list & report to IDL tech support.			
4511	IDL "out of memory" errors when running TDAS under IDLDE	2/14/2012	Ben	Pat	Java virtual machine memory limit? Identify platforms/IDL versions where this occurs, send bug report to IDL developers. Add note to users's guide if deemed necessary.			