Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes							Adm
							Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Guide
	To be Assigned or Discussed						i						
	Horae possibe VM Migration - Review after all other servers migrated	9/26/11	David	1	?								
4387	Radius values in TIPSOD vs TDAS	9/30/11	David			For discussion		l	<u> </u>		{		<u>}</u>
	Tplot cribs move to ssl_general	10/4/11	Pat	2	?	discuss at s/w meeting							
4394	We have a situation where, from time to time, code is getting pushed	10/4/11	Jim L	1		Do a & b need to be done at the same							{
	out to the automated processing directories prematurely. For					time?							{
	example, the automated ephemeris to V00 state state CDF processing												{
	is not yet supposed to include the lunar SSE and SEL coordinates, but												}
	since I'm currently doing QA on them, the code is checked in to the												
	repository trunk. Twice last month once in the beginning of												}
	September, and again about a week ago, the code directories used in												
	the automated processing (/disks/socware/thmsoc_dp_current) were updated from the trunk and this caused the ephemeris processing							}					{
	to fail since the production state CDFs don't have the SSE and SEL												
	variables yet. Suggestion: instead of periodically synchronizing												}
	/disks/socware/thmsoc_dp_current from the SVN trunk, we maintain a										[}
	release branch for the automated processing code, just like we do for												}
	TDAS and tmtools. Code would only be promoted to the release							}					{
	branch after it's been thoroughly QA-ed, rather than just doing an SVN												}
	export from the trunk whenever something needs an update. This												
	should reduce the risk of unapproved code coming along for the ride										[}
	when an unrelated enhancement or bug fix gets pushed out to							1					{
	production.												
									1				
4394a	revert the undesired update to /disks/socware/thmsoc_dp_current and	10/4/11	Jim L	1	Jim L			1	1				
	reprocess the affected state CDFs (everything after September 24).												
	Probably priority 0, because pretty soon someone is going to notice												
	that the GSE and GSM variables are empty after that date.										[}
4394b	Jim M. will probably be the one to make the necessary changes to the	10/4/11	Jim L	1	Jim M						[
	repository layout and deployment scripts, if my suggestion is												{
	approved.												
4399								†					
4400						{							
4401				1				[[}
4402													[
4403				1					1				
4404													}
4405				1									
	Oldies for Discussion - Du Jour												
24	Page Options (for printing)												1
	o allow user to toggle landscape/horizontal								1		[}
	o ungray widget to allow user to modify canvas settings												
	o add window size to page settings template o need algorithm to print a large canvas												
							2 dours		1		1		
25	Add checkbox to append data array. This is to allow a variable to be						3 days		<u> </u>		<u> </u>		}
	Color Widget on various panels only seems to display 256 colors.												}
63	Up/Down Arrows to scroll draw area						3 days		<u>+</u>		{		}
312	Keep Probe selected highlighted in Themis Load Data when selecting						1/2 day						}
	General												
4043	Paper on interdependentcies of FGM and STATE Reprocessing	4/19/10	Pat	1	Jim L	David - Put Paper into themis doc format							
447	Save THEMIS document: Attempting to save to a read only file in	2/24/11	Team	1	David - Pat	IDL Error report to ITT - Bjorn at ITT							
	Windows outputs the correct error message, but IDL crashes					6/22: what I see it has been fixed in IDL							{
1	immediately afterwards.					8.1 which is available for download from		1					{
						our website. Let us know how things		}					{
1						work out after you install IDL 8.1 and							}
1						test this out.							
				1	}	}		}	}	1	}		{

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		-			_		Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide
	It was suggested that we allocate multiple processors to speed up overview plots. But this would only speed things up if we modified our overview processing scripts so that they're executed in parallel. My thinking is that it would be a much smaller modification to just adjust the multi-threading settings on IDL, rather than making the changes to run each overview probe in parallel. QA v7.0 Issues to be tested	8/24/11	Pat	?	David	Run an Experiment after VM Migration is completed.							
	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	?	?	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. Jim L: Maybe we should upgrade my Macbook from OS X release "Leopard" to "Lion". (There's an intermediate "Snow Leopard" release between those twomaybe also worth testing?) It might even be possible to install all three OS versions, so we can boot into whichever one we need for testing or troubleshooting.							
4389	One is that makeping doesn't appear to work for OSX Lion. Two is that tlimit doesn't work right in OSX Lion. He said that he wasn't having any of these problems in Snow Leopard, and he's going to roll back to the previous OS. But we should probably still try to resolve these issues for future users.	9/30/11	Justin Lee - UCLA	?	?								
	Hannes	•											
4153	maintenance of gmag stations "Exclude List"	10/11/10	David	0	Hannes	Exclude List updated 7/11/11							
4018a	New Calibration FGM parameters and spin axis offsets	5/10/10	Hannes	1	Hannes	8/22/11 Hannes: start new Artemis offsets this week (currently covered through mid June). Themis covered through Mid August and will not be updated until the end of the year 2011. 8/29/1: Sent to Brandswaug							
4080	Attitude Determination next few months	6/21/10	Hannes	1	Hannes	After 4018a for Artemis is complete will work on spin phase and axis offsets							
2074c	quality flag for FGM data		Vassilis	3	Hannes	on hold							
	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. Aaron	5/10/10	Hannes	3	Hannes	Hannes sent out new version for review.							
4390	getting a too many points error from the wavelet routine that he doesn't get when he uses the bleeding edge from 2011-01-07. I looked at the wavelet svn log it does appear that there was a burst of commits to the wavelet pro routine in February. It may be that this fix doesn't work in this case.	9/30/11	Justin Lee - UCLA	0	Aaron	It looks like the data being used for the wavelet contains more than the default maximum number of samples (2^15) now come?							

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4386	It appears that some of the data in the GUI overview plot for probe D (on the default day) has been shifted up one panel. Each panel starting below the keogram appears to contain the data intended for the panel below it, judging by the labels and panel sizes.	9/29/11	Aaron	1	Aaron	in progress	1						
4012	Experiment with creating and deleting directories with SVN When Cindy & I tried to load tha_eff on 2007-03-23, it didn't load and said some calibration quantity couldn't be found. When I tried to load the same thing, I didn't have a problem. So the trick would be to find out what changed from my computer to Cindy's computer and to figure out how often our user's computers are going to have the same problem that Cindy's computer had.	10/4/11 3/22/10	Aaron Pat	1 2	Aaron Aaron	see 4012 ??? Aaron: These are the two copies of the spin model code that were causing the EFI calibrations to crash: Ithemis\spacecraft\particles\spin\spin model_get_ptr.pro Ithemis\spin\spinmodel_get_ptr.pro Jim L: I'm having trouble pinning down when the duplicate files were removed, or if they were ever in the repository under that location. Since it was under themis/particles, I'm assuming it had something to do with Jim McT's work to replace Jim McF's deprecated spinmodel routines.							
	GUI Overview plots sometimes have diamond shaped artifacts in the sample rate bar. Should fix.	1/5/10	Vassilis	2	Aaron	able to reproduce							
4275	There was a suggestion that we use dprint more consistently in our debugging output so that it is possible to disable all of the text that the GUI and other TDAS software prints to the command line.	6/30/11	Pat	2	Aaron	to take a look at a possible standard and then review with all; User's Guide Update?							
	When thm_load_fit is called requesting a single data type it will also return some auxiliary data types. For example: thm_load_fit,probe='b',datatype='fgs' returns: 1 thb_fit_code 2 thb_fit_npts 3 thb_fgs. load bug or test script bug) b. The relpathnames all keyword is broken.			2	Aaron	talk to Jim M							
	Anything you can do to accelerate the geometric method?	8/22/11	Vassilis	2	Aaron	on hold		<u> </u>					
	that streamlines the generation of gmag stackplots and a crib to show		Vassilis	3	Lydia	see Jim M							
2029	From Hannes		Hannes	3	Aaron	discuss at s/w meeting							
	Provided is the most common plot used by scientists that look at magnetic field data. Four panels Bx By Bz Bt and the position X Y Z as variables. Often the radial distance R is another variable. It would be great if someone enters e.g. tplot,'tha_fgs_gsm' such a useful default plot would appear. I am currently not able to produce such a plot using tplot. Another useful plot would be instead of one trace per panel, 5 traces per panel. One for each spacecraft and 5 sets of positions as variables at the bottom. For example: tplot,'th?_fgs_gsm' could produce such a plot. Also some standard plots that combine ground and spacecraft data could be useful. Notes from Vassilis: define keyword /positions default 'none', allow GSM X Y Z, R Lat Long		Hannes	3	Aaron								
	The level 2 CDF files at http://themis.ssi.berkeley.edu/data_download.shtml should contain		Hannes	3	Aaron								
	position in various coordinate systems as well. Preferably in the same resolution as the data. Otherwise Scientists need to get the position from another source. Notes from Vassilis: option to introduce the data in RE with keyword (one RE =6,478 kilometers ???). Like thm_load_fgm /pos_units= 'RE'. Also thm_load_state keyword out_coord = 'GSM', 'GSE',etc.												

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If one loads fgm data from probe 'a' and let's say there are no data for the chosen interval. The variables tha_fgl and tha_fgl_gsm etc. should all be empty. It could be those variables still contain data from the previously loaded interval.		Hannes	3	Aaron		1						
I didn't realize the cotrans messed up the velocities for earth centered coordinates. Maybe what we really need to do is modify cotrans so that it correctly transforms velocities. Users can incorrectly transform velocities just as easily using thm_cotrans on the command line, as they can using the coord keyword.		Pat/Jim L	3	Aaron								
I loaded a plot which had the line color as white. Because the legend plots in the same color as the line, the legend text did not show up. We should probably just put in a check for this case. If the line is white and the background is white then draw the text in black		Pat	3	Aaron								
Problem with edit3dbins is being caused by IDL's mouse system variable not being updated correctly on Macs. The ctime procedure, used to interactively select a time from a tplot window, relies on this variable to determine when a selection has been made in the tplot window. If the variable is never updated then ctime gets caught in an infinite loop. It's unclear whether this is specific to a particular OS version, but the routine should probably be modified at some point to maximize compatibility with Macs. In the meantime the alternate method of calling gettime that I copied you on yesterday should provide a temporary way around this bug.		Aaron	3	Aaron	verify note in quick reference guide and then task will be closed							
Add the ability to right-click on a variable in the widget-tree and display a popup with basic information about the quantity such as dimensions, range, or other meta data as well as the ability to rename variable		Pat	3	Aaron	originally part of task 64, however, after further evaluation, it was determined this best belonged with the widget tree rather than the analysis window							
I found a small bug in the z-axis panel in the gui. If I change the z-axis annotation size of a layout with 2-panels each with one spectrogram, when I apply this change, it gets applied to both panels, even if set-all is off.	8/27/09	Pat	3	Aaron								
combination of ESA and SST data could only be done in the Geometric mode. Would be great if it could be done in other modes as	8/11/11	Xuzhi	4	Aaron	On Hold							
Integrate our own slicer3.pro gui with regular 2-D slice plots.		Vassilis	4	Aaron	on hold	2 days	Y	Y	Y	Y		
The Layout panel doesn't allow shift selection in the panel portion of the widget.		Vassilis	4	Aaron		1 hr						
Ben												
Document: Administrators Guide	3/1/11	David	1	Ben			[[
update admin guide for input and output locations L1->L2 Master Probe Timing Diagram	9/15/11	Jim L	1	Ben	review doc from jim M in progress - final version of tool to be completed shortly; then analysis ; document a deliverable as well; automated script to run for a time and probe							
	If one loads fgm data from probe 'a' and let's say there are no data for the chosen interval. The variables tha_fgl and tha_fgl_gsm etc. should all be empty. It could be those variables still contain data from the previously loaded interval. I didn't realize the cotrans messed up the velocities for earth centered coordinates. Maybe what we really need to do is modify cotrans so that it correctly transforms velocities. Users can incorrectly transform velocities just as easily using thm_cotrans on the command line, as they can using the coord keyword. I loaded a plot which had the line color as white. Because the legend plots in the same color as the line, the legend text did not show up. We should probably just put in a check for this case. If the line is white and the background is white then draw the text in black Problem with edit3dbins is being caused by IDL's mouse system variable not being updated correctly on Macs. 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Pat/Jim L 3 Aaron I coated a plot which had the line color as white. Because the legend plots in the same color as the line, the legend text did not show up. We should probably just jut in a check for this case. If the line is white and the background is white then draw the text in black Pat 3 Aaron Problem with edit3dbins is being caused by IDL's mouse system variable not beleact the sits pecific to a particular OS version, but the routine should probably be modified at some point to maximize compatibility with Macs. In the meanime the alternate method of calling gettime that 1 copied you on yesterday should provide a temporary way around this bug. Pat 3 Aaron Add the ability to 'nght-click on a variable in the widget-tree and display a popup with basic information about the quantity such as a specific on the spectrogram, when apple to both preserving a spectrogram, when apple to apple to preserving sector in sector as well as the ability to rename variable. 8/27/09 Pat 3 Aaron I found a small bug in the z-axis panel in the gui. If I change the z-axis and the spectorgram, when a tapy this change, tegs applied to both	If one loads Igm data from probe 'n' and let's avy there are no data or the chasen interval. Harnes 3 Aaron If din't realize the cotrans messed up the velocities for earth centered coordinates. Maybe what we really need to do is modify cotrans on that correctly randoms velocities. Uses can incorrectly transform type consumptions velocities. On the command line, as type can sumptions velocities. On the command line, as type can sumption velocities. The transform proceedure, used to interactively select at time from a told whow, relies on this velocities to the velocities of the source of the source of the transform who a selection of a source velocities of the velocities compatibility with thass. In the meaning the alternate meaning compatibility with thass. In the meaning the alternate meaning compatibility with thas can be meand on the potentian of the stability to right-click on a variable in the vidget-trae and display a poopu with basic information about the quantity such as dimensions, range, or there real data as well as the ability to rename variable Pat 3 Aaron originally part of task 64, however, after truthere real-lasout the the the advelation of the stability to	If one loads from probe is and let's say there are no data for should all be empty. It could be those variables still costand data from the chosen interval. Hannes 3 Aaron (add) Tradice the costom enseled up the velocities for earth contenent that it correctly transforms velocities. Users can incorrectly transform whether the costom enseled up the velocities for earth contenent that it correctly transforms velocities. Users can incorrectly transform whether and the background is white. Because the legend that it correctly transforms velocities. Users can incorrectly transform whether and the background is white the data with the data whether and the background is white the data with the data whether and the background is white the data with the data whether and the background is white the data with the back whether and the background is white the data with the data whether and the background is white the data with the data whether and the background is white the data with the back whether and the background is white the data with the back whether and the background is white the data with the data with the data whether and the background is white the data with the back whether and the background is white the data with the back whether and the background is white the data with the back whether and the background is white the data with the back whether and the background is white the data with the back whether and the background is white the data with the back whether and the background is white the data with the back whether and the background is white the data with the back whether and the background is white the data with the back whether and the background is white the data with the background with background with the background with the backgro	If one loads form order by and lefts say there are no data for should all be empty, it could be those variables all contain data from previously loading interval. Hannes 3 Aaron Idon't reaker. The variables is any plane in the given method previously loading interval. Idon't reaker. Id	If one back from oble for adde for mode for mode for methods for methods for mode for adde for adde for mode for mode for adde for add	If one loads from outle first outlet for some no data for the channel matching of the channel m	If one loads from data from probe 's and left's any there are to data for the observations' and left's any there are to data for the observations' is any there and left's any there are to data for the observations' data from data is any data in any type in a subservation of the observations' data from data is any data in	Index and the control of the contro

Took #	Took Departmen	Date Opened	Deported By	Dei	Acciment To	Notoo	;	,	,	;	,		· · · · · · · · · · · · · · · · · · ·
Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide
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	1	Ben	In progress. TDAS v6 has been tested. Several templates created, selecting the appropriate command line routines to test.							
2149g	write a routine to check time tag monotonicity and repair tplot variable if necessary ("replace with NaN" and "delete")		Jim L	2	Ben	Create a routine to clean up tplot variables. Use in the load routines were susceptible. Recommend that we just remove what is needed to make the time tags monotonic, and issue a warning indicating that the user should consult the THEMIS software team about that data.							
2149h	integrate time tag fixer-upper with TDAS load routines		Jim L	2	Ben	needs a prerequisite written - see 2149g							
4070	Add Mirror Chao info to Admin Cuide	0/00/44	line I		Dee	Cae David far lafe			ļ				}
4379 4200	Add Mirror Sites info to Admin Guide 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.	9/23/11 1/19/11	Jim L Yuri Shprits	2	Ben Ben	See David for Info part of the state cdf							
4214	THEMIS Pipeline proof of concept regression tests							+	1				<u> </u>
	GMAG	3/23/11	Jim L	2	Ben		1		1	1			
4214f	AE Index	3/23/11	Jim L	2 2	Ben			1	1				
4214g		3/23/11	Jim L	2 2	Ben				[}	[}
	mosaics	3/23/11	Jim L	2	Ben		ļ						
4214i 4135	summary plots Now that the L1 ESA/SST/MOM reprocessing is underway, these CDFs will soon contain the full ESA and SST configuration words, in addition to the solar wind flags, sweep modes, and so forth. With the full configuration data available, if someone wants to use a property of these instrument configurations that's not already present as a L1 variable, we don't need to reprocess L1 to add it – we just write a little more code for TDAS, to extract the new attribute from the configuration data that's already present.	3/23/11 9/10/10	Jim L Jim L	3	Ben Ben		2-4 hrs						
4135a	Write some TDAS routines that take an apid and a configuration word, and return a structure with all the relevant properties of that configuration. This is basically reimplementing some logic that's already in the L0->L1 processing code (written in C). If anyone ever needs other attributes of the instrument configuration (for example: the angle maps corresponding to each configuration), we would update these routines to return the additional information.	9/10/10	Jim L	3	Ben								
41355	In the load and/or calibration routines for ESA, SST, MOM: rather than using the ESA solar wind flags and sweep mode from the L1 CDFs, use the ESA full configuration instead (which is present in all three L1 types, for convenience), and use the routines from 4135a to extract the solar wind flags, sweep mode, and any other useful attributes. I think SST does not have any configuration flags similar to the ESA quantities (there's the attenuator status, but that's separate from the instrument configuration word), but it needs them in the future, they should be handled the same way as ESA (extract from SST configuration word instead of adding L1 variables). I can do this, but if the routines from part (a) are well-documented, any of us could probably do this part.	9/10/10	Jim L	3	Ben								

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E	Crib	QA Suite	UG	Qref	Adm
2078	bau sunpulse met assumes x86 endiannes (BugzID=13)		Vassilis	3	Ben		Loumato			or Script		qioi	Guide
2070	bau_surpuise_met assumes xoo endiannes (bugzid=15)		vassilis	3	Dell								
4027b	Reprocessing GOES Data	4/5/10	Tami - SPDF	3	Ben	Reprocessing on hold until Howard Singer delivers another batch of binary GOES data files.							
	Cindy			1									
	Jim L			1					ļ				
4385	strange patterns in SST data	9/26/11	Xuzhi	0	Jim L	Pat: You mentioned a modification to			<u> </u>	+			÷
						sanitize the data. Do we want to put it in? If yes, do we want it to be L0->L1 or L1->L2? Jim L: It's probably a bit easier to handle at the L0->L1 level, since I'm already tracking the ETC config changes. Monitor in the future							
4369	THEMIS Leap Second Discussion	9/15/11	Vassilis - Jim L	0	Jim L	Jim L to write up doc and get SL:P write-up from Pat. Issues Probe Files, Spin Model, ESA Pkt, SPDF, VMO							
4310	state files: including P1, P2 SSE and SEL coordinates	8/8/11	Vassilis	0	Jim L				+				+
	take Jasper's code and incorporate into thm_cotrans	8/8/11	Vassilis	0	Jim L								
	Change the V00 and V02 ascii ephemeris to state CDF processing to include the new SSE and SEL ephemeris variables	8/8/11	Vassilis	0	Jim L								
4310c	Change thm_load_state to allow loading the new variables	8/8/11	Vassilis	0	Jim L				1				
4310d	Test that revised CDFs have correct data	8/8/11	Vassilis	0	Jim L	See Sabine for verification of code - email sent to ARTEMIS team ; Sabine will take a look; Jaspar gave his okay							
	Deploy code changes and new master CDFs for use in the automated processing	8/8/11	Vassilis	0	Jim L	on hold until confirmation 4310d							
4310f	Reprocess state CDFs for entire mission	8/8/11	Vassilis	0	Jim L			1	1	<u>.</u>			1
	The ARTEMIS science team is keen to have a look at the most recent lunar data, with the eclipse spin model corrections turned on. That processing isn't fully automated yet, so it'll take me a couple of hours to set up and run Ferdinand's eclipse processing code. I told Vassilis I'd try to have at least the THB and THC products up to date by next Wednesday's telecon.	8/18/11	Vassilis	0	Jim L								
4326b	Then for Particles and Spin Fits	8/18/11	Vassilis	0	Jim L	in progress		+	1				
3093	Automate processing of eclipse sunpulse data from FGM team	2/22/10	Jim L	1	Jim L	brought up from 3+ priority							
	thm_parts_moments update(spin moments mods)	11/22/10	Vassilis	1	Jim L	initial simple way, final fix is to fix esa and sst 3D data structures							
4034a3	awaiting feedback and performing analysis	11/22/10	Vassilis	1	Jim L	Tips of the Month at some point?		}	1]		
	astrea - come up with a test , verification and migration plan	7/18/11	David	1	Jim L Jim L	Lydia will do gmag					<u> </u>		
	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.	5/23/11	Ferdinand	1	JIM L								
4142	issue with FGS processing - timestamps	9/30/10	Vassilis	1	Jim L	not trivial	3-5 days	Y	1	1			
2266	Timing of Spin Fit data	10/16/09	Jim McFadden	1	Jim L	see 4142							

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes							مايين
							Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide
	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	4-5 days						
4030	cross-check SST psir6 and psif data types for excess counts in psir6	4/8/10	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.							
4030a	Review Onboard Scripts for possible error.	5/17/10	Jim Lewis	1		can duplicate on flatsat. Jim Mcfadden and Davin to review Jim L's email.							
4030b	Correct Existing Data	5/17/10	Jim McFadden	1	Jim L	4030a prerequsite							
4030c	If scripts change - make changes to processing scripts	5/17/10	Jim Lewis	1	Jim L	4030a prerequsite							
	"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."	6/1/10	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.							
	as you know we have a few folks here in our SPDF group who are 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.	2/7/11	Tami	1	Jim L	Web Site - instruments will have a web page with "Sources of Data Anamolies". The first one being the ESA issue							
	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	7/15/11	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							
	"bad" themis thg I2 files - instrument files; L0->L1 processing produces incomplete/empty CDFs	8/1/11	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:	9/10/09	Jim L	2	Jim L	· · · · · · · · · · · · · · · · · · ·	2 hrs						

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	F -4'4		0."	QA Suite		0.1	Adm
4022	Update L1 master cdfs to support SPDF hosting	3/25/10	David	3+	Jim L	I think 4022 is a an end-of-mission task: basically clean up all the L1 CDFs, so they are fully ISTP compliant and as compatible as possible with SPDF's tools. But "ISTP compliant" is a moving target – they keep adding new checks to the SKTEditor software so I think we made a task to do one final cleanup and reprocessing at the end of the mission, as opposed to reprocessing every time they introduce a new SKTEditor check that renders our L1 files non-ISTP- compliant. So 4022 = final end-of-mission adjustments to master CDFs, 4023=final reprocessing. Both should remain open, with no immediate action required as far as I know.	Estimate	A&E	Crib	or Script	UG	Qref	Guide
4040	Spinfits - separate E&B timestamps?	4/15/10	Jim L	3	Jim L	SPDF has issue creating plots on the L1 data with their software							
	either thm_load_fit or the GUI code that calls thm_load_fit should split the data into separate tolot variables for E and B, before importing them into the GUI data model. I think thm_load_fft already does something like this. See task 4040	4/23/10	Pat	3	Jim L	Jim M 4/23: thm_load_fit also splits into efit and bfit variables, so unless you need to look at raw bytes, the 'fit' datatype is not needed. Pat: Agreed. Short term, excluding the data type from the GUI seems like an easy solution.							
2082a	Spin modeling during shadows BugZid=43		Vassilis	3	Hannes	Jim L to write routine. Hannes send info.							
2038 2039	STATE Web Page (s) bad timing sun pulse times (early January 2009)		Vassilis Vassilis	3 3	Jim L Jim L	review web pages Clarification needed							
	L1 Data Processing History Info: SCM, EFI, STATE		Vassilis	3	Jim L	Lydia???							
2043	Refactor repeated CDF library code in CDF processing tools BugZid=50		Vassilis	3	Jim L								
2077	Non Monotonic timestamps. BugzID=72		Vassilis	3	Jim L								
	task 2047 in my name: "Seperate E and B timestamps for spin fits", which is also a change to the L1 FIT master CDF and associated TDAS code. But unlike the spacecraft potential enhancement (which only adds new CDF variables, and is more-or-less backward compatible), 2047 would require us to bump the L1 FIT CDF version number to V02, and produce both V01 and V02 for a while, so users of TDAS 5.20 and earlier will still be able to load L1 FIT data. So I'm not sure whether the spacecraft potential task should include 2047, or not.	3/2/10	Jim L	4+	Jim L								

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	describe the FBK data type, time tag specified to correspond to the beginning of the time interval of the data that went into the FBK data, the middle, or the end, or is that unspecified, and what's happening here is that the time tagging is being changed in year 3+ of the mission - in the L1 file definition document, at least, does not define the time-tagging conventions to this level of detail.	6/11/10	John Bonnell	4	Jim L								
4023 2080	Before EOM reprocess L1 cdf's due to master cdf changes for SPDF Phantom packets" cause non-monotonic distribution times. BugzID=25, low priority.	3/25/10	David Vassilis	4	Jim L Jim L								
2081	Evaluate CDF compression algorithms BugZid=81		Vassilis	4	Jim L								
2083	Add "last processed" time to L1 (and L2?) CDFs BugZid=115		Vassilis	4	Jim L								
4097	cdf's with MD5 checksum	7/19/10	Jim L	4	Jim L	Jim L to send email with subtasks and estimates							
	Jim M	•				·			1				
4381	Also there's no FGM L2 data for those days, (otherwise the overplots shouldn't be trying to load L1 data).	9/23/11	Jim M	0	Jim M	missing FGH data - September 2011; notify Tami; FGH reprocessing complete - overview plots to be reprocessed							
	Ambrosia Migration - testing and Migration Danaid Migration - testing and Migration	8/22/11 8/22/11	David David	0 0	Jim M Jim M								
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 developed 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 **	11/2/09	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							
4365	reverse-engineer the process of updating the onboard tables that define the ESA and SST angle/energy modes.	9/8/11	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 ** in progress **							
4365a	Sanity check of current configuration: Jim and Davin will provide a range of ETC memory addresses to be validated. Ops team will request a memory dump of those locations, probably on one of the inner probes, via apid 407 memory dump packets. JWL (or maybe Ben S) will write a tool to stitch the memory dump packets back together into a memory image, which Jim and Davin can inspect to make sure we are working with the correct memory range. Hopefully this will be a targetted test a small range of addresses, rather than a complete memory dump (which would take extra care and error checking to interpret). If it's a small enough dump, we can possibly avoid having to write a tool and just look at the raw hex from a few 407	9/8/11	Vassilis	0	Jim M	On hold							
	nackets. ETC table upload utility: Davin may have something in his backups. If not, JWL will resurrect a "cmd2raw" utility we used during I&T to convert ASCII files of IDPU commands to a properly checksummed RAW command file, which the ops team can then upload to the probes. Jim McFadden and/or Davin will have to provide the list of IDPU commands.	9/8/11	Vassilis	0	Jim M	On hold						1	

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes							
							Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide
	(Maybe) ETC table image->IDPU command converter: If Jim McF or Davin can't come up with a list of IDPU commands, we may need an additional utility to take the desired ETC memory image, and convert that to a file of IDPU commands that will produce the desired memory image when executed on board.	9/8/11	Vassilis	0	Jim M	On hold							
	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.	10/8/10	Vassilis and Davin	0	Jim M	Persons that can provide information are: Davin, Deron Pease/McDonald, Michael Luldam and Robert Abiad.							
	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.	10/20/11	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	10/20/11	Vassilis	0	Jim M								
	change the ESA tables such that electrons and ions can be changed separately into magnetospheric and solar wind modes.	10/20/11	Vassilis	0	Jim M								
	Quality flags for efi are wrong including electric field offsets in computation. On hold until Michael Hartinger sorts out.	8/8/11	Vassilis	1	Jim M	discuss with Vassilis							
4233	Angular Correction for particle data - use Jim McFadden's code if available	1/9/11	Vassilis	2	Jim M								
4302	"bad" themis thg I2 files - mag files	8/1/11	Tami	2	Jim M	multiple versions of idl_make_cdf Jim M to look at							
	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.)	6/6/11	Tami Kovalick	2		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.	ī.						
	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)		Vassilis	2	Jim M	not allow velocity to go bad							
	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								

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		Date openiou	noportoù by		Accigned to		Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide
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-AASCII calibration file (used for all probes) doesn't match anything I removed from the data CDF).							
4208a	Enhanced MOM Instrument Web Pages	3/5/10	David	2	Jim M	Talked to David first.							
4003	Document: ESA File and Calibation Processing	3/5/10	David	3	Jim M			+	+				
2091	Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdfs - entire mission		Vassilis	3	Jim M								
2055	ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA		Vassilis	3	Jim M	On Hold; awaiting Jim L to split L1 into master cdf			1				
2093	AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: minor nuisance		Vassilis	4	Jim M								
2095	Mosaic Processing - permanent script needed		Vassilis	4	Jim M			1	1				
2100d	DC offset between 4sdo and 2sdo in boom plane		John Bonnell	4	Jim M	Which is better? Assigned to J. B. (low priority).							
2100h	Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?).		John Bonnell	4	Jim M	On Hold - low priority							
2100p	Modify THM_CAL_FIT to treat efs datatype - Install E12/E34 conditional based on th?_fit_code TPLOT variable. If E12 switched to E34 software needs to be revised to handle		John Bonnell	4	Jim M								
	: Lydia	ļ		1	}								}
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/11	David	0	Lvdia	Next March 2012		· · · · · · · · · · ·					{
4334d		8/22/11	David	0	Pat - Lydia	watch for a few more days		+					}
4391	The following codes are slow: mat = dblarr(1000,1000,1000,1000) for i = 0, 999 do begin mat(*, i, *, *)=1.+i*10./1000 endfor Is there a faster equivalent to these codes?	10/4/11	Jiang	0	Lydia	The basic idea is to use dindgen to create a 1-d array containing the indexes for i. The use his formula to create the result he wants for one dimension. Since the other dimensions are just copies, you can use #[1,1,1,1] to expand it to a 4-d array. Finally, you'll need to use transpose(with an argument to juggle dimensions, see docs), so that the variation occurs along the second dimension and not the first.	:						
4395	makepng,'test', window=9 % Compiled module: MAKEPNG. % X windows protocol error: BadMatch (invalid parameter attributes). << I get this error multiple times; just pasted it once to show it % Compiled module: REDUCE_COLORS. % Loaded DLM: PNG. MAKEPNG(77): Created PNG: test.png from window 9	10/4/11	Justin Lee - UCLA	A 0	Lydia	Test with Mac Leopard on bleeding edge then Leopard with v6.0.							

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A 9 E	Crib	QA Suite	UG	Qref	Adm
	I have identified the problem with the Alaska processing. Some of the netCDFs that we have received from Alaska contain non-monotonic timestamps. Our code handles cases where adjacent timestamps are the same, but not cases where there are strange jumps in the timestamp. Do you have a contact for Alaska? It would be good to know if this is a temporary problem. At the moment I will attempt to make the error reporting from the script more useful so that we know when this problem occurs.	10/5/11	Lydia	1	Lydia	contact name found - awaiting feedback from UA	LSUIIdo	Au		or Script			Guide
	Astrea Test and Migration to VM Calgary GMAG Issue	8/30/11 9/20/11	David Lydia	1		It sounds like Harald asked Calgary about the problem last week but hasn't heard back & will ask them again. The problem is likely at their end as there have been no changes at our end and when I attempt to connect to their server it times out.							
4357	Laura is looking into the processing of EPO Spectra jpgs. As this has been a problem for more than a year it is probably not a high priority.	9/1/10	Laura Petacolas	n/a	Lydia - maybe	script ti fill-in data is running; where spectra plots are coming from are in capacity							
	Bob Clauer mentioned that he was interested in importing his Antarctic gmags into TDAS.	6/30/11	Bob Clauer	2	Lydia	analysis. Bob email us and said he would provide necessary data.							
3086	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. Augsburg investigating - ping sent on 9/23	2/19/10	James Weygand	2	Lydia	Email requesting other 2007 sites to be put on ftp site. From Erik at Augsburg: We are indeed moving information from an older computer to a newer one, with both currently in service and with the general designator space.augsburg.edu now pointing at the newer computer leaving the old 'space' computer as yspace, as you noticed. We are indeed moving information from an older computer to a newer one, with both currently in service and with the general designator space.augsburg.edu now pointing at the newer computer leaving the old 'space' computer as yspace, as you noticed.							
2175	L2 File Definitions Document	3/1/11	David	2	Lydia	Lydia completed Draft - out for review: Jim M, Jim L, Pat, Ben, Aaron							
	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 reply to sent email							
4006	add the following ancillary ground-based observations: MAGDAS Network, Auroral Electrojets (AE) and Ground Radars (SuperDarn, AMISR and Sondrestorm)	3/8/10	David	2	Lydia	, 							

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes		1	1				
							Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide
4006a	Verify we have Kyoto DST - latest files	3/8/10	David	2	Lydia	they are only up to 2003 in final; Andreas Keiling reviewing							
4006b	SuperDarn - when available make sure it works with TDAS	3/8/10	David	2	Lydia	sent analysis to ERG folks - v6.1?							
4006c	AE (Auroral Electrojets) - make sure we have the latest if we have	3/8/10	David	2	Lydia	Andreas Keiling reviewing							
4298	the slices code should probably have a keyword to use the new SST calibrations.	7/27/11	Pat	2	Lydia	On hold till the SST calibrations have found wider use.			Y		Y		
	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 lot more types of data.	8/11/11	Pat	2	Lydia	when the need arises - on hold							
2088	Themis Developers Guidelines		David	3	Lydia	in progress							
4396	Testing v6.0 and bleeding edge with Mac Lion OS - see Justin's Issues	10/4/11	David	3	Lydia								
4042	Script to run every two weeks to runs IDL TDAS and checks if a file can be loaded from THEMIS SPDF file (s)	4/19/10	Pat	3	Lydia	see Pat							
	Modeling SST fluxes upgrade thm_load to work with probe assignments	3/12/11	Vassilis Vassilis	3 3	Lydia Lydia	on hold							
	move functionality of thm_load_state2 into thm_load_state and delete thm_load_state2		Vassilis	3	Lydia								
2032	Multiple enhancements concerning keywords, valid_names and thm_load routines		Vassilis	3	Lydia								
	Pat							1					
4334d	gaia Migration - testing and Migration	8/22/11	David	0	Pat - Lydia	in progress - crons to run over weekend; review some new found scripts							
4138f	Run simulation for range of initial positions around the full sphere.	9/17/10	Davin	1	Pat	Rob Lillis sanitizing files.; eta couple of weeks from Rob							
4267c	Write code to remove proton and electron contamination from the electron and proton distributions using data and efficiencies from the F & O channels.	6/27/11	Pat	1	Pat	in progress - iterative testing with real data in progress							
4355	IDL-VM checkout	8/30/11	Yoshimasa - lugonet	1	Pat	in progress with IUGONET							
4068	Lynn Wilson possible enhancements	6/1/10	Lynn Wilson	1	Pat	Review Lynn's software and generate list of features							
4287	Switching SST Load routines to thm_sst_load2 for SST calibrated data	7/15/11	Pat	1	Pat				1				
	Save THEMIS document: Attempting to save to a read only file in Windows outputs the correct error message, but IDL crashes immediately afterwards.	2/24/11	Team	2	David - Pat	IDL Error report to ITT - Bjorn at ITT 6/22: what I see it has been fixed in IDL 8.1 which is available for download from our website. Let us know how things work out after you install IDL 8.1 and test this out.							
2060	L2 cdf Quality Flags: for SST		Vassilis	2	Pat								
4002	Document: SST File and Calibation Processing	3/5/10	David	2	Pat								
									5	:			

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										or Script			Guide
	68. GUI z-axis options when Fixed Min/Max selected, value in spinners does not reflect current range as it does for X and Y axes. Displayed range when spinners desensitized is inaccurate.	2/10/10	Aaron	3	Pat	check draw object							
3063	40. CL tplot options setposition test plots all look the same	1/15/10	Pat	4	Pat	Long-standing tplot bug, may not ever be fixed							