Task#	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide	Dev Guide
	To be Assigned or Discussed				\ '			ļ						
4353 4354								ļ				ļ		
4355												<u> </u>		
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 Windows outputs the correct error message, but IDL crashes immediately afterwards.	2/24/11	Team	1	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.								
4013	Plot Description Doc Button	3/22/10	David	3	Emmaunel	in progress	ł		-			ļ		
4337	DP Processing web page change	8/22/11	David	1	Emmaunel	David to get website updated, notify Tohbans								
4348	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.	8/24/11	Pat	?	David	Run an Experiment after VM Migration is completed.								
	Harald L1's and mosaics are up-to-date and available through June				Harald				-			<u> </u>		
	2011				riaraia			<u> </u>						
	Thumbnail Data:				Harald	Updates ready 7-10th of the next month		ļ				ļ		
	466							ļ		ļ		ļ		
	- cdf files done until June 2011 - overview plots done until June 2011							ł		ļ		ļ		
	- movies done until June 2010			_				ļ						
	: Full-resolution raw data:				Harald			ļ						
	- complete for 2007, 2008, 2009							<u> </u>						
	- Up to date and complete until September 2010							ļ	-					
	Full resolution data: - data cdf done for all 2007 and 2008 and up todate and				Harald									
	complete through September 2010							ļ		ļ		ļ		
	- keogram cdf done for 2007-2008, 2008-2009 and up to date and complete through September 2010													
	Web site mosaics and movies:			_				Ţ						
	- Mosaics and movies reprocessed for 2007, 2008, 2009 and 2010 seasons													
	- Mosaics and movies up to date until June 2010							1						
	Web site overview plots with full resolution data: - overview plots done for 2007-2009 and until September 2010							ļ						
	Hannes							ļ	ļ			ļ	ļ	
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.								

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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								
4034b	Ferdinand sent was an attempt on his part to automate the shadow processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it up with him once you have gone through it.	4/14/10	Vassilis	1	Hannes	Waiting for feedback from Ferdinand about state of inner probe eclipse models, long & short eclipse models								
2082a	Spin modeling during shadows BugZid=43	,	Vassilis	2	Hannes	Jim L to write routine. Hannes send info.	S							
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.	5/10/10	Hannes	3	Hannes	Hannes sent out new version for review.								
2074c	quality flag for FGM data		Vassilis	3	Hannes	on hold	\							
04000	Aaron	4/04/44	Chaintin	1		start 0/45								
QA038	Windows - Layout option	1/21/11	Christine	1		start 8/15								
QA038a	6.a) I forgot to click Add to make new panels for each spacecraft's data and thus ended up with all data on one panel. The only way to fix this, that I saw, was to delete all the data and then start over, making sure to add a panel before selecting each dataset. As a user, I feel there should be an option to move data from one panel to another without having to remove it and select it again. For instance, we should be able to click and drag a piece of data from one panel to another panel.	1/21/11	Christine	1	Aaron	awaitin g and h	4-6 hrs							
QA038c	6.f) When the 5 panels have been made of the data, the type of data in each panel is labeled but the spacecraft is not included in the label. You only know which spacecraft is represented if you hover your mouse over the panel. I think the panel should have the sc label, especially for printing purposes.	1/21/11	Christine	1	Aaron	come up with how to fix options with level of effort - one or two load to edit	2 hrs							
QA038d	REALLY don't like how when you select the dependent variable, the window slides over to center it. I want it to stay wehre it was unless I slide the window myself. Otherwise I'm constantly sliding it back to the left in order to see which variable I want to select.	1/21/11	Christine	1	Aaron	fix only for windows - if it can be fixed	4 hrs							
QA038g	10.c,d) If you change the panel row number, you have to also change the panel row number to which you are changing it to. Ex. 10.c) asks to select the 3rd panel and click the up arrow key twice, and click apply. You can't do this unless you ALSO select panel 1 and click the down arrow key twice. Same for 10.c and d You can't apply panel 3 to row change to 5 unless you change 5 to some unused row number. Should this be automated? If not then at least the suite's directions should be altered.	1/21/11	Christine	1	Aaron	alter test suite and resolve for simple case - talk to Christine - discuss with Pat eta 8/29 or 8/30								
QA038h	10.h) If you don't click cancel, but apply it and hit ok and go back to manually change it back to the original plot, the plot keeps the same width for each panel as when there were 3 columns, even now there is only 1, so each panel is very short instead of being its full, one-column size. This shouldn't be the case.	1/21/11	Christine	1	Aaron	analysis - for discussion with level of efforts eta 8/29 or 8/30	6 hrs							

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							Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide	Dev Guide
4305	General Slices feedback from UCLA (Stefan, Andrei, Shanshan and Xuzhi) and UCB (Jim McFadden)	8/1/11	Vassilis	1	Aaron	update the crib as well		<u> </u>						
	Slices Mods Keyword forces a load, SST warning to interpolate	8/22/11	Vassilis	1	Aaron									
	Andre came by again after re-working his plots and said that they looked good and reflected what was expected. There does seem to be a plotting option (from the old software) to plot the exact energy limits that was temporarily disabled and part of it never re-instated. It would be a 2-3 hour task to implement it. He also mentioned that he will continue tinkering with the software and will let me know what he finds.	8/18/21	Andrea	1	Aaron		2-3 hrs							
4330	Andre stopped by again yesterday to mention that everything looked good. He did make a suggestion, which I agree with, to change the keyword that controls slice type ("TYPE") since the same keyword is already used in the load routine and it could get confusing.	8/19/11	Andrea	1	Aaron		1/2 hr							
4335	Slices issues from Shanshan	8/22/11	Shanshan	1	Aaron		ļ	·						
	Its plot comes up and erases the tplot time series plots. Could you make sure it opens a separate window?	8/22/11	Vassilis	1	Aaron									
	Anything you can do to accelerate the geometric method?	8/22/11	Vassilis	1	Aaron									
1	It tried to avoid smoothing but it seems to have smoothed when it shouldn't.	8/22/11	Vassilis	1	Aaron									
	The autorange did not autorange when limited the energy in 2Dinterpol but worked for Geometric.	8/22/11	Vassilis	1	Aaron									
4012	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.		Pat	2	Aaron	Jim M: I have no trouble with EFF data either for linux or windows.	4-6 hrs							
3014	We don't have support for filled symbols. This means symbols are only outlines.	12/11/09	Pat	2	Aaron									
3031	GUI Overview plots sometimes have diamond shaped artifacts in the sample rate bar. Should fix.	1/5/10	Vassilis	2	Aaron	This is a side-effect of the a way that symbols are used as a hack to generate the sample rate bar. Fix after 3014 is fixed.	1/2 day							
4314d	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 well.	8/11/11	Xuzhi	4	Aaron	On Hold								
	transforming one data point from SM coordinates to GSM coordinates. ct=time_double('2008-02-16/04:50:00') dipole=[[0],[0],[1]] v=[1,2,3] store_data,'dipole_sm',data={x:ct,y:dipole,v:v} cotrans,'dipole_sm',dipole_gsm','SM2GSM cotrans,'dipole_gsm','dipole_gse','GSM2GSE get_data,'dipole_gse',data=dipole_gse xdipgse=dipole_gse.y[0] ydipgse=dipole_gse.y[1] zdipgse=dipole_gse.y[2] tilt=atan(xdipgse,zdipgse) When I check the data for 'dipole_gsm', the values are 0,0,0. I'm not sure what they SHOULD be, but I know that their magnitude should equal 1. sqrt(x^2+y^2+z^2)=1		Christine	4	Aaron									
1579	When importing a variable with a valid 'V' component in its data struct, but no spec flag set in its meta data, the loaded data object fails to load the y-axis. This should be fixed, as it ends up incorrectly loading certain spectral quantities.		Pat	4	Aaron									

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2121	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.			4	Aaron									
2029	From Hannes		Hannes	4	Aaron			ļ	ļ			ļ		
2029a	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	4	Aaron									
2029b	The level 2 CDF files at http://themis.ssl.berkeley.edu/data_download.shtml should contain 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.		Hannes	4	Aaron									
2029c	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	4	Aaron									
2030	upgrade thm_load to work with probe assignments		Vassilis	4	Aaron			<u> </u>						
2031	move functionality of thm_load_state2 into thm_load_state and delete thm_load_state2		Vassilis	4	Aaron									
2032	Multiple enhancements concerning keywords, valid_names and thm_load routines		Vassilis	4	Aaron									
2013w	Integrate our own slicer3.pro gui with regular 2-D slice plots.		Vassilis	4	Aaron	on hold	2 days	Υ	Υ	Y	Υ			
	Ben			•		<u></u>		†						
	Edit master CDFs to include the new variables	8/8/11	Vassilis	0	Ben					}		<u> </u>]	[
	Python Migration - testing and Migration Python migration - series of tools and scripts	8/22/11 8/5/11	David Jim L	0 1	Ben Ben	awaiting VM python2 to be ready				ļ				
	THEMIS Pipeline proof of concept regression tests VC->L0	3/23/11	Jim L	1	Ben Ben	awaiting VM python2 to be ready				ļ		ļ		
	VC->L0 L0->L1	3/23/11	Jim L	1	Ben	awaiting VM python2 to be ready awaiting VM python2 to be ready		 	ļ	 		 		ļ
	L1>L2	3/23/11	Jim L	2	Ben			<u> </u>	ļ	†		<u> </u>		
	empermeris->state v00 Document: Administrators Guide	3/23/11 3/1/11	Jim L David	1	Ben Ben							-		
4001a	Review Tim Quinn's scripts and update admin guide for input and output locations	8/26/11	Jim L	1	Ben	in progress								
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		Vassilis	1	Ben	In progress. Several templates created, selecting the appropriate command line routines to test.								

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4200	Yuri has generated a 3 parameters for the THEMIS spacecraft L,L*,Mlat. These parameters are very useful scientifically. The task would be to archive these parameters in CDF and add a load routine in TDAS to read them. Currently, the data will be made available to us by Yuri via tab separated ascii files.	1/19/11	Yuri Shprits	2	Ben	part of the state cdf								
4214	THEMIS Pipeline proof of concept regression tests											ļ		
	GMAG	3/23/11	Jim L	2	Ben					 				
	AE Index	3/23/11	Jim L	2	Ben				 	 				
4214g		3/23/11	Jim L	2	Ben			:						
4214h	mosaics	3/23/11	Jim L	2	Ben		[
	summary plots	3/23/11	Jim L	2	Ben									
2149g	write a routine to check time tag monotonicity and repair tplot variable if necessary (with options for "replace with NaN" and "delete")		Jim L	2	Ben	Create a routine to clean up tplot variables. Use in the load routines were susecptible. 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								
4135	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.	9/10/10	Jim L	3	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									
4135b	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									
2078	bau_sunpulse_met assumes x86 endiannes (BugzID=13)		Vassilis	3	Ben									
				3	DEII							<u> </u>		
4027b	Reprocessing GOES Data	4/5/10	Tami - SPDF	1	Ben	Reprocessing on hold until Howard Singer delivers another batch of binary GOES data files.								

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1							Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide	Dev Guide
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	Cindy													
4318	Load Data. I received an "Invalid Start and/or stop time" message when the time format was correct. Clicking in the start time text field fixed it. This happened several times, but I can't reproduce it consistently.	8/15/11	Lydia	1	Cindy									
4319	History Window. I think this has been reported previously - When you open the history window it appears on top of the main GUI window, but then immediately moves behind it. If you have the history window open on top of the main gui window then as soon as the mouse enters the draw area of the main GUI window the history window is sent behind it again. To save or close the history window you need to minimise or move the main gui window out of the way.		Lydia	1	Cindy									
4325	Page Options: Landscape. If you change a page from portrait to landscape, and then close that page then the remaining page/new page will display as landscape even though the Page Options shows portrait selected.	8/17/11	Lydia	1	Cindy									
	i i i i i i i i i i i i i i i i i i i									ļ		ļ		
4334	Python Migration - testing and Migration	8/22/11	David	0	Jim L			ļ		ļ		ļ		
4310	state files: including P1, P2 SSE and SEL coordinates	8/8/11	Vassilis	0	Jim L				-			·		
4310g	take Jasper's code and incorporate into thm_cotrans	8/8/11	Vassilis	0	Jim L	in progress				<u> </u>		1		
4310b	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					İ		Ì		
4310d	Test that revised CDFs have correct data	8/8/11	Vassilis	0	Jim L	See Sabine for verification of code				ļ		ļ		
4310e	Deploy code changes and new master CDFs for use in the automated processing	8/8/11	Vassilis	0	Jim L									
4310f	Reprocess state CDFs for entire mission	8/8/11	Vassilis	0	Jim L					<u> </u>		†		
4326	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	in progress - Ferdinands code not working on all eclipses; Spin model for Artemis probes expended fuel. Awaiting info from FGM Team								
4331	I noticed a couple of warnings overnight from the automated definitive ephemeris processing. It looks like a couple of files from 2008 got updated: THEMIS B EPHDEF60 08135 000100 08141 210000	8/19/11	Jim L	1	Jim L	Dan Cosgrove will update ascii files and then you will do a manuel reprocessing as needed								
	THEMIS_B_EPHDEF60_08141_210100_08148_140000 THEMIS_B_EPHDEF60_11203_020100_11229_110000 was also picked up (as expected), and processed normally as far as I can tell. I haven't tracked down the exact problem with the 2008 files that were also processed last night. It's possible that my script just isn't working													
	properly or the case when an ephemeris file is updated, but the preceding and following files are not. But it appears, from the processing logs, that the data in those two files may have differed from what was there previously.													
	Otherwise, it should have detected that the updated products were identical to the published products, and skipped the update. Any idea why these files might have been updated, and what (if anything) was different about the updated version?													
4034a2	thm_parts_moments update	11/22/10	Vassilis	1	Jim L	initial simple way, final fix is to fix esa and sst 3D data structures		ļ						
4034a3	awaiting feedback and performing analysis	11/22/10	Vassilis	1	Jim L	Tips of the Month at some point?	 	<u> </u>		 		 	 	
	astrea - come up with a test , verification and migration plan	7/18/11	David	1	Jim L	Lydia will do gmag	·		·	†		†	1	

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Task#	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Eatire etc	A 0 F	Cuit	QA Suite	UG	0==f	Adm	Dev
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.	5/23/11	Ferdinand	1	Jim L		Estimate	A&E	Crib	or Script	UG	Qref	Guide	Guide
4142	issue with FGS processing - timestamps	9/30/10	Vassilis	1	Jim L	not trivial	3-5 days	Υ						
2266	Timing of Spin Fit data	10/16/09	Jim McFadden	1	Jim L	see 4142			·	<u> </u>		 		
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	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 dupilcate 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						ļ		{
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."	6/1/10	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.								
QA110	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.		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	7/15/11	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								
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+	Jim L	to take a look at a possible standard and then review with all								

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4301	"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	 						
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.								
3093	Automate processing of eclipse sunpulse data from FGM team	2/22/10	Jim L	3+	Jim L									
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								
4046	either thm_load_fit or the GUI code that calls thm_load_fit should split the data into separate tplot 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	Jim L Jim L	review web pages Clarification needed		ļ		ļ				
2040	L1 Data Processing History Info: SCM, EFI, STATE		Vassilis	3	Jim L	Lydia???						ļ		
	Refactor repeated CDF library code in CDF processing tools BugZid=50		Vassilis	3	Jim L Jim L	Lyuia::?								
2077	Non Monotonic timestamps. BugzID=72		Vassilis	3	Jim L									

Task#	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide	Dev Guide
2047	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									
4075	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	Before EOM reprocess L1 cdf's due to master cdf changes for SPDF	3/25/10	David	4	Jim L							<u> </u>		
2080	Phantom packets" cause non-monotonic distribution times. BugzID=25, low priority.		Vassilis	4	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								
4201	Kyoto final data - may have different URL naming scheme	2/2/11	Jim L	4	Jim L	they are only up to 2003 in final						ļ		
	i Jim M						}	 				-		
4333	We are trying to download themis wave burst data. The codes we are using are thm_load_efi and thm_load_scm. Some cdf files have downloaded properly but often we will get error messages.	8/22/11	Christopher Colpitts - University of Minnosota	0	Jim M	8/22/11: Jim sent email to researcher								
4344	thm_load_mom: Vassilis: Sorry I meant the speed has gone "up". Possible to either speed the onthefly processing up, or to remove the deadtime as being default? Vassilis: Lets make sure, however, that the keyword is set as ON for L2 onboard moment computation.	8/22/11	Vassilis	0	Jim M	from Jim 8/23/11: Speeding up the onthfly processing would be difficult, without speeding up thm_part_moments itself, the deadtime calculation calls thm_part_moments twice, once with 0 dead time, and once with nonzero dead time. It's not clear to me how that step can be avoided. Unless I start messing around inside Jim's ESA code, to add a flag that allows the particle distribution to be obtained with or without dead time. — then I might be able to reduce the time to do the correction to only one call to thm_part_moments, but with extra flags so that inside thm_part_moments, each moment can be calculated with and without dead time. This would increase the time that thm_part_moments spends, but it would probably be shorter than calling thm_part_moments twice. So you might speed up by a factor of 1.5 or so. It's easy to remove the dead time calculation as the default, and just change the keyword to /dead_time_correction.								

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4295	Update Nightly build script, other directory changes	7/25/11	Jim M	1	Jim M	in progress - davin's file yet to be				or Script			Guide	Guide
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	completed 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. I'll check this out.								
4316	I found a bug in thm_part_moments2. If you don't set the trange keyword and you try to load data that isn't available the routine will crash instead of failing gracefully. The error occurs on line 172 of thm_part_moments2 Here is an example, ERROR - tha peir data not loaded % Variable is undefined: TRANGE. % Execution halted at: THM_PART_MOMENTS2 172 /home/pcruce/IDLWorkspace/themis/spacecraft/particles/moments/thm_part_moments2.pro % THM_PART_GETSPEC 420 /home/pcruce/IDLWorkspace/themis/spacecraft/particles/thm_part_g etspec.pro % THM_PART_MOMENTS2 58 /home/pcruce/IDLWorkspace/themis/spacecraft/particles/moments/thm_part_moments2.pro % THM_PART_GETSPEC 420 /home/pcruce/IDLWorkspace/themis/spacecraft/particles/thm_part_g etspec.pro	8/12/11	Pat	1	Jim M									
4317	An additional bug, this may be related to the feature request that I reported earlier. (That thm_part_getspec often loads data even when you've already loaded it.) In this case, it appears that the routine isn't loading data that should be loaded. I think that it may have gotten confused because I had previously loaded data for that day, but only for a short interval. In specific, I had loaded level 2 esa data on 2007-07-16/15:00-17:00, and generated pitch angle spectra for that time using thm_part_getspec autoloading the I0 data. Then when I tried to do the full day,I got the error. But if it was working correctly, it should have realized that I didn't have the whole day and reloaded the data.	8/12/11	Pat	1	Jim M									
4312	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	On Hold								
4233	Angular Correction for particle data - use Jim McFadden's code if available	1/9/11	Vassilis	2	Jim M							<u> </u>		
4218	thm_part_moments angular restriction	4/4/11	Vassilis	2	Jim M									
4302	"bad" themis thg I2 files - mag files	8/1/11	Tami	2	Lydia	multiple versions of idl_make_cdf Jim M to look at	<u> </u>							
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.)	6/6/11	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.								

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	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								
2224	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	3/5/10	David	2	Jim M	Talked to David first.								
	Document: ESA File and Calibation Processing	3/5/10	David	3	Jim M	Tanca to Bavia inst.	·		·	<u> </u>		ļ		ļ
	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								
2093	AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: minor nuisance		Vassilis	4	Jim M									
2094	Overview plot change: mode bar seems thick		Vassilis	4	Jim M	nothing we can do easily			-					
2095	Mosaic Processing - permanent script needed		Vassilis	4	Jim M		 	ļ	 	 		 	ļ	
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			,				 	+	 				ļI
4302	"bad" themis thg I2 files - mag files	8/1/11	Tami	0	Lydia	multiple versions of idl_make_cdf (priority 3) Jim M to look at			+	<u> </u>				
4322	there was one clear mistake and a few oddities in the list of GMAG locations on the THEMIS web site. I also changed the formatting on several Excel cells so it looks nicer to the eye. Would you please replace the file THEMIS_GMAG_Station_List_May_2011.xls with the attached one.	8/17/11	Harald	1	Lydia	verify if done								

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4346	I got a question from a grad student(Shan shan) that made me think of a missing feature. The routine tinterpol_mxn should have a 'repeat/nearest neighbor' option when interpolating. That is, instead of picking a value between the two adjacent points when interpolating, it should repeat the value of the nearest point. This came up when Shan Shan was trying to interpolate a bit-packed variable(the ROI data), if you use normal interpolation on this type of variable, the result will be garbage. It looks like this routine gets a lot of usage so I think it would be a fairly visible improvement.	8/23/11	Pat	?	Lydia									
4347 4349	Sort out what is needed to get all Yellowknife gmag data available. I was loading some FFT data in the GUI and just wanted to check that the behaviour was correct. If I attempt to load fff_32_adc it brings up a message: THM_UI_LOADED_DATA::ADDDATA> Problem loading: tha_fff_32. GUI data model does not currently support data with dimensions greater than 2. (and also messages for tha_ffp_32 and tha_ffw_32) But it does show fff/p/w_adc, src, hed as having loaded. I don't actually know what any of these quantities are so I'm not sure if this is what it should be doing. (This doesn't seem to happen in v.6)	8/23/11 8/26/11	Vassilis Lydia	1 1	Lydia Lydia	discuss at S/W meeting								
4350	As an addendum to this: vaf vap vaw vbf vbp vbw are also listed in the load panel as EFI L2 quantities, but do not load.	8/26/11	Lydia	1	Lydia									
4351	I found that EFI L2 quantities eff_e12_efs and eff_e34_efs are listed in the Load Data panel in the GUI, but if you attempt to load them it says that "Input: eff_e12_efs eff_e34_efs is not valid". It seems these variables are not on the list of valid names.	8/26/11	Lydia	1	Lydia									
4343	Bay Mills was installed backwards, where sensor north is facing south. Apart from sending someone to rotate the sensor 180 degrees, there is nothing that we can fix. What we can do is add a matrix transformation and reprocess the data. *** Awaiting Katheryn ***	8/22/11	Shanshan	1	Lydia	I just talked to Kathryn and she indicated that she would prefer that the rotation be done in their flat files. When they're done reprocessing they'll let us know and we'll have to redownload & reprocess the BMLS data. The one caveat is that they've never really exercised this rotation matrix in their calibration procedures, so there is the possibility that it will have bugs. We might want to start by downloading a small amount of the data and then having Shanshan verify that their modification fixed the problem before we do the reprocess.								
4313	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	discuss at software meeting								
4274	Bob Clauer mentioned that he was interested in importing his Antarctic gmags into TDAS.	6/30/11	Bob Clauer	2	Lydia	Bob email us and said he would provide necessary data.								

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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.	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	25% time - in progress								
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 lan 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									
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	discuss at software meeting of 9/6	ł							
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.			Υ		Y			
2088	Themis Developers Guide		David	3	Lydia	25% time after 2175 completed		(
2036	GOES 10-12 Test data: h. update labels (Howard's request - minor tweak)		Vassilis	3	Lydia	see Jim L								
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								
2090	that streamlines the generation of gmag stackplots and a crib to show how to do this. (< than a day)		Vassilis	3	Lydia	see Jim M								
4210	Modeling SST fluxes	3/12/11	Vassilis	3	Lydia	on hold								
3007	EPO-GMAG msgs: modify the script and only issue this message if >	12/8/09	David	4	Lydia	see Pat				·				[

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							Estimate	A&E	Crib	or Script	UG	Qref	Guide	Guide
4345	From looking at the code, it appears that the ground track plots are using t89. I think that they originally intended to use t96, but later changed the model, but not the plot labels. We should double check with Harald Frey before we take any action. David, we should probably track this as a separate bug, as I suspect that we'll have to fix the plots and reprocess the plots. ** reprocessing in progress ** Emmanuel to make change as well	8/23/11	Pat	?	Pat	If these programs are called with the keyword /single_time then the T96 will be run through the get_mline routine which Sabine wrote a couple of years ago. If this keyword is not used, then the T89 model will be used through the code by Haje Korth. But I think as the program name in both map_themis_state_196 and map_themis_state_196 and map_themis_state_south_196 specifically included the 196, it should be consistent and just use the T96. I would also rather consistently use the T96 instead of the T89 as it provides better results in the tail. the very recent plots look funny as the right hand side "GSE orbits" is not right, most likely because of the ARTEMIS probes. I will look into it and try to fix it together with the T89-T96 fix.								
4345	continued					Pat: Harald is going to update the code so that it consistently uses the t96 model. So you can move forward with the t96 label in the keys. The plot description document will also need to be updated to indicate t96. Let me clean up both programs, and submit them to svn. I will send you a short note once that is finished. I would caution everybody to use the ground tracks on the web site for major scientific conclusions, but it would certainly be better to have that corrected. I hope it will not be too much of an effort to reprocess these plots.								
	I fixed everything in the spacecraft mapping for the northern hemisphere and made a number of checks to make sure that there are no more hidden problems. The file has substantially changed. Next I will do the same for the mapping to the southern hemisphere and will submit the updated programs through svn. I send you the northern file already so you might be able to set up a script to run over the weekend. I recommend to redo the whole mission because Haje Korth pointed out that even the mapping for 2007-2010 has slightly changed with the new geopack version. In order to speed things up I added a keyword quick which will do the mapping only for every 10 minutes instead of every minute. This is a substantial time saving, without much obvious decrease in quality. So the new call would be for instance map_themis_state_t96,'2010-10-06/00:00:00'./quick./gif	8/26/11	Harald	0	Pat	Teorocess mese piors.								
4352	Sorry to be a stickler but lunar plots (see attached) as well as 5 spacecraft plots with the moon included(not shown here) were constructed with symbol at the end of the interval, whereas THEMIS, near Earth plots have the symbol at the beginning of the interval. Can reprocessing take place to make them consistent (?) i.e., symbol at the beginning of the interval, like THEMIS used to be in the early days?	8/26/11	Vassilis	0	Pat	reprocessing in progress								
4138f	earny days? Run simulation for range of initial positions around the full sphere.	9/17/10	Davin	1	Pat	Software to be purchased and build the geometry by hand. (working with Rob Lewis) in progress								

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	·						Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide	Dev Guide
	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	1	Pat	Pat has enough info to generate tables to send to the S/C, Davin to ask Peter Harvey for more info. Davin will talk to Peter next week. 7/26/11 David reminded Davin;8/22/11 Vassilis says another week								
	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 - updating code to new method								
	While checking this out, I noticed that the overview plots are still using the old version of the IDL geopack library. This is going to give inaccurate results since the old version of the GEOPACK only had IGRF coefficients that could extrapolate up to 2010. We should really update to the new version of the library. It has gotten enough testing that I think that we can consider it stable.	8/15/11	Pat	1	Pat									
	Overview web page navigation	8/1/11	Vassilis	1	Pat	Emmanuel not able to do	***************************************			†		1		
4068	Lynn Wilson possible enhancements	6/1/10	Lynn Wilson	1	Pat	Review Lynn's software and generate list of features								
	Switching SST Load routines to thm_sst_load2 for SST calibrated	7/15/11	Pat	1	Pat							1		
447	data 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							ļ		
4002	Document: SST File and Calibation Processing	3/5/10	David	2	Pat									
4208b	Enhanced SST Instrument Web Pages	3/5/10	David	2	Pat	Talked to David first.	-	 				ļ		
	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	4	Pat	check draw object								
	How's it going with the stats? I noticed the query takes some time because it's looking at the whole table. It could be refined for specific time periods. The delay in return could be what's causing Dave to have access problems - or the SSL firewall?	10/23/09	Tim	4	Pat	see 2277								
	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	4	Pat									
	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	4	Pat									

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							Estimate	A&E	Crib	or Script	UG	Qref	Guide	
2063	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	4	Pat	verify note in quick reference guide and then task will be closed								
2106	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	4	Pat	originally part of task 64, however, after further evaluation, it was determined this best belonged with the widget tree rather than the analysis window								
2220	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	4	Pat									
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								
4029	One of Michael Hartinger (a grad student in atmos) is having trouble with thm_part_getspec when the SST is in fast survey mode. The routine can take a very long time to run because of the higher resolution. I think we should put a feature request on the list to automatically downsample the particle data in time. Normally, I would suggest that uses downsample using one of our interpolation routines, but because the particle data is stored in a special common block, there is no easy way for end users to perform this operation.	4/6/10	Michael Hartinger / Pat	4	Pat	Michael supplied code for thm_part_moments	4-8 hrs							