Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate (hrs)
	To be Assigned or Discussed						
3001	**Discuss - end of year power shut-down**						
3002							
3003							
3004							
3005							
	General						
2186	I noticed that the Data->Collaboration Tools->(subcategories...) fall behind the ARTEMIS graphic.	7/28/2009	Michael	2	Amanda		
	Revise ESA and MOM Data History web pages	11/5/2009	David	2	Amanda		
	Revise the Data Products Web page and send to Amanda		David		David		
	Incorporate electron calibration into data	10/25/2009	Vassilis		Davin		
	Enhanced SST and MOM Instrument Web Pages		David		Davin		
2103	EAC offsets	8/1/2009	John Bonnell	2	John B	John has taken AC coupled data -> he will get me the offsets and the switch-over times. Etc November	
2216	Fix the sign reversal of e34.	8/13/2009	Michael	tbd	John B	Etc 10/23	
	one outstanding issue with THM_LOAD/THM_CAL_EFI is that for some reason when I ask for the calibrated data in SPG (which should just be adjustment of gains and offsets, and conversion from ADC units to physical units, the code is trying to do some despin operations. Since this has direct impact on my ability to evaluate the EFI data quality,	9/8/2009	Jim M		John B	Review Jim's fix, Eta 10/23	
	Harald						
	ASI software - running fine as of November 12, 2:20pm				Harald		
	Thumbnail Data (updates will come around November 16):				Harald	Updates ready 7-10th of the next month	
	- cdf files done until September 30, 2009						
	- overview plots done until September 30, 2009						
	- movies done until July 31, 2009						
	Full-resolution raw data:				Harald	2 new Calgary disks containing full resolution data until mid April 2009. Finished processing everything until 2/28/2009. March in process.	
	- complete for 2007 and 2008						
	- reasonably complete until mid April-2009						
	Full resolution data:				Harald	need to finish processing of data that were on transfer drives from Calgary	
	- data cdf done for all 2007 and 2008 and until 03/31/09						
	- keogram cdf done for 2007 and 2008 and until 02/28/09						
	Web site mosaics and movies:						
	- Mosaics and movies reprocessed for 2007/2008 season						
	- Mosaics and movies reprocessed for 2008/2009 season					November 2008 mosaics to be reprocessed	
	Web site overview plots with full resolution data:						
	- overview plots done for 2007 and 2008 and until 02/28/09					Need to update with data on transfer drives from Calgary	
2069d	UCLA – mirror site set-up		Vassilis	1	Harald	UCB has sent 4 bricks to UCLA. After brick transfer UCLA will need to supply SSH key - RSYNC Key.	
	Hannes						
2199	AE Index - quality control check plots for traces without gaps	8/3/2009	Vassilis	1	Hannes	on going	
2294	In addition to the AE index gmags could you also look, with the same tools the EPO gmags, just to make sure the data is coming through OK and there are no glitches? Chris suggested this would be a good (efficient) way of ensuring quality. You could report the EPOs back to both the scisoft group and Kathryn Rowe to check on them. EPOs are the low/subauroral gmags on THEMIS.	11/17/2009	Vassilis	1	Hannes		
2273	Attitude Determination changed based on spin tone removals?	10/19/2009	Hannes	1	Hannes	in progress; on hold until new calibration file comes in december	
2074c	quality flag for FGM data		Vassilis	2	Hannes	on hold	
2082a	Spin modeling during shadows BugZid=43		Vassilis	2	Hannes	Jim L to write routine. Hannes send info.	
	Vladimir						
	Aaron						
2033	VMO file generation		David	1	Aaron		
2033a	One variable change to ASI files and possibly the whole repository		David	1	Aaron	changes sent to Jan	
2033b	SCM and EFI L2 variables		David	1	Aaron	awaiting Jim M sign-off	
2033c	V03 L2 STATE - revision needed?		David	1	Aaron	send Jan an email	
2020b	If requesting 1 hour of data using timespan, then load data using one of our load data routines.: EFI and SCM		Vassilis	1	Aaron	take a look at EFI with three hours one hour before and one after. After Calibration removed outer two hours.	

2013	2-D, 3-D slices enhancements					Talk to Andrea, Christine, Shanshan	
2013h	Main: Temporal slider Bar Export to .png file Allow for use outside GUI	11/13/2009	Vassilis	1	Aaron	in progress	
2013j	Plotting: Contour lines Display min/max Title information (same as old slices code) Specify x,y,z ranges Axes titles Axes ticks Plot ESA boundary		Vassilis	1	Aaron	on hold until 2013h completed	
2013k	Create our own version of slicer3.pro that can take user input to setup colors, orientation, etc. when it's called.		Vassilis	1	Aaron	will be completed when 2013h completed	
2013l	Integrate our own slicer3.pro gui with regular 2-D slice plots.		Vassilis	1	Aaron	will be completed when 2013h completed	
2253	Fix crib errors - Christine's list of 9/23/09	9/23/2009	Christine	2	Aaron		
2027e	Finishing the coordinate transformation of the thm_load_state data at input, to include transformation of spinaxis attitude, need to determine keyword switch, implement the rotation of the spinaxis elevation/azimuth from gei to arbitrary coordinates (consult with Pat, Vassilis)		Vassilis	2	Aaron	not allow velocity to go bad	
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	3	Aaron		
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.			3	Aaron		
2028	Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi, _gmag, _ask, _mom, _esa_pkt		Vassilis	3	Aaron		
2029	From Hannes		Hannes	3	Aaron		
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	3	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	3	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	3	Aaron		
2030	upgrade thm_load to work with probe assignments		Vassilis	3	Aaron		
2031	move functionality of thm_load_state2 into thm_load_state and delete thm_load_state2		Vassilis	3	Aaron		
2032	Multiple enhancements concerning keywords, valid_names and thm_load routines		Vassilis	3	Aaron		
	Cindy						
2239b	Load Panel Bug: Loading state data for any probe and requesting level 1 data type '*', it doesn't load all the support types(spinras etc...). This also doesn't work if I shift-select all the quantities in the type list.	11/13/2009	Cindy	1	Cindy	thm_ui_new_load_data2obj.pro - hope by 12/11	
2239c	Load Panel Bug: When trying to load gmag data from the gui station=kian, I got the following crash: % Attempt to subscript NEW_TVARS with NEW_VARS_IND is out of range. % Execution halted at: THM_UI_NEW_LOAD_DATA2OBJ 543	11/13/2009	Cindy	1	Cindy	thm_ui_new_load_data2obj.pro - hope by 12/11	
2268	QA Prep - Revise GUI Test Suites and determine QA Reqd Tests	10/19/2009	David	1	Cindy	4 hours per week etc 11/13-11/20 (40% complete)	
2284	Update GEM Software Presentation	11/2/2009	David	2	Cindy	thm_ui_new_load_data2obj.pro - hope by 12/11	
2297	Update the User's Guide for v5.2	12/2/209	David	2	Cindy		

Jim L							
2298	reprocessed SCW spikes Re: THEMIS SCM Level 2 files	11/24/2009	Olivier	1	Jim L		
2034f	revised QA script for FGM (path finder for other scripts to be revised later)		Vassilis	1	Jim L	Jim will do for FGM and then Pat will do 2034g (in progress)	
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 and Michael	1	Jim L	assign when 2149e started. Michael: Since it is difficult or impossible (in post-processing) to identify all of the bad time tags (or even some of them -- e.g., the fast->slow case), I 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.	
2266	Timing of Spin Fit data	10/16/2009	Jim McFadden	1	Jim L		
2149h	integrate time tag fixer-upper with TDAS load routines		Jim L	1	Jim L		
2248	once in a while (maybe 10-20 occurrences per probe during the entire mission), the FGM range doesn't change on all three axes at once:	9/10/2009	Jim L	1	Jim L	see 2149g and h	
3000a	Review and update if needed Variable Desc Document	12/3/2009	David	2+	Jim L	For L1 cdf's variables	
2082a	Spin modeling during shadows BugZid=43		Vassilis	2	Hannes	Jim L to write routine. Hannes send info.	
2035	Split L1 ESA (using Thomas's routine) in master ESA data cdf		Vassilis	2	Jim L	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).	
2036	GOES 10-12 Test data: h. update labels (Howard's request - minor tweak)		Vassilis	2	Jim L	determine if to be reassigned	
2038	STATE Web Page (s)		Vassilis	2	Jim L	review web pages	
2039	bad timing sun pulse times (early January 2009)		Vassilis	2	Jim L	Clarification needed	
2040	L1 Data Processing History Info: SCM, EFI, STATE		Vassilis	2	Jim L		
2043	Refactor repeated CDF library code in CDF processing tools BugZid=50		Vassilis	2	Jim L		
2046	Create a more efficient & productive prototype QA Instrument Command Line Script - first template (s) functional blocks then		Vassilis	2	Jim L		
2047	Separate E and B timestamps for spin fits: a) make a revised V02 master CDF with E and B separated b) change thm_load_fit to support V01 and V02 of the L1 CDFs c) change the L0->L1 processing code d) change the L1->L2 processing code e) test the changes, then reprocess to create the V02 CDFs (keeping the V01 files around for a while to ease the transition) BugzID=45		Vassilis	2	Jim L		
2047a	FGS sample times and values, showing repeated timestamps. BugzID=113 (BugzID=67 must be done first)		Vassilis	2	Jim L		
2047b	Repeated timestamps and gaps in spin fit data BugZid=113 (#67 may fix this one as well).		Vassilis	2	Jim L		
2077	Non Monotonic timestamps. BugzID=72		Vassilis	2	Jim L		
2078	bau_sunpulse_met assumes x86 endiannes (BugzID=13)		Vassilis	2	Jim L		
2080	Phantom packets" cause non-monotonic distribution times. BugzID=25, low priority.		Vassilis	3	Jim L		
2081	Evaluate CDF compression algorithms BugZid=81		Vassilis	3	Jim L		
2083	Add "last processed" time to L1 (and L2?) CDFs BugZid=115		Vassilis	3	Jim L		
2084	. 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	3	Jim L		
Jim M							
2270	gmag warnings - blank site names	10/19/2009	David	0	Jim M	if data is missing then we will investigate	

ID	Description	Date	Person	Pri	Owner	Notes	
2999	legends in temperature plots	Andrei	11/30/2009	1	Jim M	From Jim M: I'll work this out, so that the same labels and colors are used for all of the plots. An issue with the 2 and 6 hour plots is that the Reduced modes are used, so that in slow survey mode there is only 1 angular bin, and this affects the t3 and velocity calculations. I have not reconciled the moments plots to the overview plots, so these may need changes too.	
2296	The labels for T_para, T_perp on the overview plots have been switched so that the correct color label refers to the correct value: green is Ti_para, blue is Ti_perp, black is Te_para and red is Te_perp. This change will show up today, and will cover the last 10 days of plots.	11/19/2009	Andrei	1	Jim M	Mod complete and last 10 days reprocessed. A full reprocessing is in January.	
2282	Problems with onboard moments during solar wind are probably only a ground software issue. (There was some mis-communication between Davin and I about changes that never took place which caused some confusion.) Ground software has never been modified to handle solar wind mode moments -- Davin is working on a modification that can at least allow him to check that the data is ok. There could potentially be other problems so we requested from Deron and John that they send us a copy of the EPROM data in a format easy to read so we can check that the onboard tables are what we think they are. For now we are pretty sure they are correct and the data should be fine. I think Davin will make a simple code change that will allow him to tell moments code to assume SW mode when decommutating moment packets. This should allow him to quickly test that the data is fine.	11/2/2009	Jim Mcfadden	1	Jim M	Davin is writing code - Vassilis will talk to him	
2056	SCM L2 cdf		Vassilis	1	Jim M	will email Olivier with differences - eta 12/7	
2228	one outstanding issue with THM_LOAD/THM_CAL_EFI is that for some reason when I ask for the calibrated data in SPG (which should just be adjustment of gains and offsets, and conversion from ADC units to physical units, the code is trying to do some despin operations. Since this has direct impact on my ability to evaluate the EFI data quality,	9/3/2009	John Bonnell	1	Jim M	fix awaiting JB review, eta 10/15	
2225	L2 EFI cdf (quality flags)	8/31/2004	Vassilis	1	Jim M	in progress all done except quality flags. That to come 10/15. Then test files to be sent to SPDF and Jon Bonnell	
2269	make FGM keywords standard for L2 Processing. Discuss at S/W Meeting	10/19/2009	FGM Team	2+	Jim M	on hold until until 12/21-12/22	
2227	L2 SST cdf revisions	8/31/2004	Vassilis	2+	Jim M	awaiting SST calibrations	
2293	FIT Q&A web page - needs info	11/7/2009	David	2+	Jim M	in progress - eta 12/4	
2061	Data Description Paragraphs - EFI, SCM, FFT, ASI and GMAG	11/9/2009	David	2+	Jim M		
3000b	Review and update if needed Variable Desc Document	12/3/2009	David	2+	Jim M	for L2 cdf variables	
2288	had expected that this cotrans would occur at the very end, after all the calibration code. But the calibration itself seems to be affected, as reflected in the following differences between the log messages before/after rev 6929:	11/12/2009	Jim	2	Jim M	see 2256	
2057	SCM CAL File Processing Doc		Vassilis	2	Jim M	text completed. Put into std document format and send to Olivier for review	
2283	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.	11/2/2009	Jim Mcfadden	2	Jim M		
2058	found 3 errors in the new th*_l2_esa masters - the good news is, with them fixed in our masters, all plotting issues w/ the ESA files (in		Vassilis	2	Jim M		
2060	L2 cdf Quality Flags: for SST		Vassilis	2	Jim M		
2175	L2 File Definitions Document		David	2	Jim M		
2062	Alberta - At the moment the data files are from Dawson (daws), Churchill (fchu), Island Lake (isll) and Fort McMurray (mcmu). I will add Rabbit Lake and Taloyoak at some time but we have some issues with mag pointing at those 2 sites. If you recall, the agreement between Ian and Vassilis was that this data wouldn't be copied to become part of a mirrored archive like the existing data we provide. Instead, each file would be obtained from this site each time it is requested (using curl or some such). This means we can use our own logs to monitor data usage. Themis Software to be able to retrieve from Alberta		Vassilis	2	Jim M		
2087	Administrator's Guide		Vassilis	2	Jim M		
2088	Themis Developers Guide		Vassilis	2	Jim M		

ID	Description	Date	Requestor	Pri	Assigned	Notes	#
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		
2090	that streamlines the generation of gmag stackplots and a crib to show how to do this. (< than a day)		Vassilis	2	Jim M		
2091	Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission		Vassilis	2	Jim M		
2092	thm_load_mom changes - reconcile mods with Davin at an appropriate time.		Vassilis	2	Jim M		
2055	ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA		Vassilis	2+	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	3	Jim M		
2094	Overview plot change: mode bar seems thick		Vassilis	3	Jim M	nothing we can do easily	
2095	Mosaic Processing - permanent script needed		Vassilis	3	Jim M		
2100	EFI calibration		John Bonnell	3	Jim M		
2100d	DC offset between 4sdo and 2sdo in boom plane		John Bonnell	3	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	3	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	3	Jim M		
	Pat						
2069	Support Mirror Sites		Vassilis	0	Pat		
2069a	Japan (ISAS)		Vassilis	0	Pat		
2069b	Austria		Vassilis	0	Pat		
2069c	France		Vassilis	0	Pat	(Rumi - not always up to date for gmags)	
2070	Support gmag data remote sites		Vassilis	0	Pat	The -12 days ones are ones that Kathryn indicated are on the fritz: BMLS,UKIA,HOTS,PINE	
2070a	Augsburg (MACC's)		Vassilis	0	Pat		
2070b	Alberta		Vassilis	0	Pat		
2070c	Greenland		Vassilis	0	Pat		
2265	When new FGM Cal files come from David Fisher reprocess last 6 months.	10/16/2009	Pat	0	Pat	ongoing	
2291	**Train backup (Aaron) for daily gmag monitoring**	11/12/2009	David	1	Pat		
2280	Retrieval of ASCII Data - Including 2009.	10/29/2009	Laura	1	Pat	ready for reprocessing	
2286	Update Summary Plot script to get latest STATE for reprocessing. And reprocess in early December 2009 after FGM is reprocessed.	11/9/2009	Vassilis	1	Pat	mid January	
2034g	revised QA script for STATE (path finder for other scripts to be revised later)		Vassilis	1	Pat	On hold until Jim L finishes 2034f	
2284	Update GEM Software Presentation	11/2/2009	David	1	Cindy/Pat		
2147c	Reprocess L2 FGM products with enhanced code		FGM Team	2	Pat	January 4th	
2147d	Few tweaks to the FGM: 1. As Ferdinand updates his code, he's been making small changes and sending me new versions. 2. Edita would like me to add keywords so that the FGM Team can get copies of the data after each stage in the calibration process so that they can validate the calibrations	10/19/2009	FGM Team	2	Pat		
2292	Use latest available STATE files when reprocessing overview plots	11/7/2009	Vassilis	2	Pat		
2136	When we implemented tplot_gui, we gave it support for the most important tplot options, but not many of the more obscure ones. It might be worthwhile to create a task for someone to go through exhaustively and implement as many tplot options as is feasible. That way people can more easily use the gui like an interactive version of tplot. Right now I feel like the more obscure options end up leading to gui plots that still look reasonably different from tplot plots.		Pat	2	Pat	in progress	16
2289	modify the summary plot web page according to the request by Vassilis. Then take over the routine generation of these plots and just need to add the line to the orbit/footprint processing that you are already doing.	11/12/2009	Vassilis	2	Pat		
2115	tplot does not fail gracefully after illegal margin set. In this case: tplot_options,'xmargin',[100,100], tplot does not fail gracefully after illegal margin set. In this case: tplot_options,'xmargin',[-1,-1] -tplot does not fail gracefully after illegal margin set. In this case: tplot_options,'ymargin',[100,100]			2	Pat		40
2267	if you want to load a template, you need to pass the template path in via a keyword, or select an option to open it from the THEMIS->File Menu. I think we should consider adding the template path to the configuration file that we save, so that it can be loaded automatically.	10/19/2009	Pat	2	Pat		

2176	I ran into a small annoyance today when loading a themis document. I had originally loaded ESA and SST data for one time period, then overwrote that data by loading the same quantities but for a different time period. I did this several times and then saved the document for later. When re-opening the document I got a series of prompts asking whether I would like to re-write each quantity. It would speed up and streamline the process in this case if data that was later overwritten is not loaded when you open the document.	7/20/2009	Aaron	2	Pat	I spoke to Pat about this yesterday and we both agreed that while we cannot be sure which quantities should be re-loaded and which shouldn't (some may have been used temporarily for calculations). However, we can store the users's original choice to overwrite the data or not. So while we may not be able to save on loading time we can still keep the user from having to click multiple messages and from having to remember what they chose originally. The latter is particularly important since they may receive errors or get corrupted data if they do not choose the correct option	
2201	One feature that was never implemented for the mini-language is globbing.(The ability to use '*' and '?' to reference multiple tplot variables at once.) This is a feature that is standard with many of our other tplot data processing routines. I think it would be very useful to include in the mini-language.	8/5/2009	Pat	2	Pat		
2187	I noticed a bug in the x-axis options panel. It probably also applies to the y-axis options. If the set-all button is selected on the grid tab, then changing panels doesn't update the settings on the grid tab to the settings currently displayed for that panel.	7/29/2009	Pat	2	Pat	set to most recent user action for all routines	
2041	thm_load_state out_coord velocity calculations wrong		Vassilis	2	Pat		
2285	Christine brought to my attention a bug that occurs if you use the TDAS tsyganenko routines in a way that is not really something that I expected, but seems to be a legitimate use of the routines. If passing in a set of input parameters that are stored in tplot variables but are not in time-series, the routine produces incorrect results.	11/4/2009	Christine	2	Pat		
2279	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?	10/23/2009	Tim	3	Pat	see 2277	
2135	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	Pat		
2124	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	Pat		
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	3	Pat	verify note in quick reference guide and then task will be closed	4-8 hrs
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	3	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	4 hrs
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.	8/27/2009	Pat	3	Pat		
							16-24 hour
Misc							
447	Save THEMIS document: Attempting to save to a read only file in Windows outputs the correct error message, but IDL crashes immediately afterwards.			1		IDL Error report to ITT	4 hrs