Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimat (hrs)
	To be Assigned or Discussed						
2126 2116	State Vector -> remove coord keyword fac_matrix_make: do a better job putting the inputs into the correct		Pat/Jim L	tbd tbd	tbd tbd		
1061	coordinate system Add capability to control Legend text, font, format, size, color			tbd	tbd		4 days
808	IDL Format Code -currently have no way to insert a different font in the middle of a string (e.g. adding a symbol to a string in NewTimesRoman). Possibly enable formatting like we did for the z axis labels			tbd	tbd		1 day
24	Page Options (for printing)     o allow user to toggle landscape/horizontal     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			tbd	tbd		3 days
759	Automatically load data if user scrolls forward or backward out of current range.		China	tbd	tbd		o days
714	Add a set all button to the Z axis.			tbd	tbd		3 hrs
802	Add THEMIS color palette, maybe a dropdown menu with the 5 themis colors, or a check box to say use 5 default colors? Or add a special area in the existing color palette.			tbd	tbd		1/2 day
1135	The call_sequence object needs to track calls to the Overplot routine. That way if you save a themis document with data from an overview plot, you will still be able to get it back.		Pat	tbd	tbd		3 hrs
1197	Add titles to the x and y axes. Jim M partially accomplishes this in the overplots by adding an extra label object, but there's no way for the user to do this on their own. I envision the user entering x and y		Bryan	tbd	tbd		1 day
1141 227a	Store the angle parameters that you used in get spec.  Variable options - 1) It looks like the variable options panel doesn't have an apply button. It probably should, this issue must have just slipped through the cracks. 2)After removing a variable the '-' delete button remains sensitive yet no variables are selected and clicking it does nothing. Either the button should be desensitized or another trace (first or adjacent maybe) should be selected after a delete. 3) I also noticed that the attributes text boxes still contains the old information in them from the variable that was just deleted. It is purely aesthetic but we may want to clear these fields if nothing is selected. 4) Move variable text settings from page options to variable options window.		Pat EL	tbd Open	tbd tbd	2 days	1/2 day
944	Step 7. Load THEMIS dataStep 7. FGM data: I did not get fge data for THC. Maybe there is none for that day (2008-1-1), but the running history also did not issue a "some data not loaded" error, unless only that datatype is requested. Running histor		Michael	tbd	tbd		2 hr
1464	Calculate: Once a quantity is selected in the Insert Field, expanding/collapsing events cause that selection to be inserted into the Program Area.		Bryan	tbd	tbd		
	Add capability to go into landscape mode (page pull down menu)		Pat/Jim L	tbd	tbd	related to task 24	
806a	Markers -1) Allow feature for user to control marker lines (style, color, size) marker text (font, format, color, size), and marker shaded region (color, opacity) 2) Add logic to check when tracking all is on so that selected markers will be selected for all panels. 3) If multi-panel tracking is on, subset all visible panels at the same time range.			tbd	tbd		1 week
2175 2176							
2177 2178							
2179 2180	General						
	Review EFI web pages on beta site		David		John B		
	Create web pages for FFT, FBK		David		Chris Cully		
	Format FFT and FBK info from C Cully into web pages Work on acquiring FIT web info		David David		David David		
	Enhanced SST and MOM Instrument Web Pages		David		David		
	EFI Wiki Pages		David		John B		
	SST Wiki Pages		David		Davin		
	New Server Installation Greenland data total magnetic field is only about 250 nT even if no baseline subtracted (from Harald).		Vassilis Vassilis		Jon L J Weygand	Waiting for student to have time.	
	Review corrections to the EFI Web pages from Amanda		David		John B		
	Move EFI Web Pages from beta to official web site  Problem with the front page of the web site. When you hover the mouse over the "Data" link near the top of the page, then move down to the "Data processing" or "Collaboration tools" menu items, the next level of fly-out menus is unreadable they're blocked by one of the images next to the "Latest News & Events" section. I'm using Firefox 2.0.0.20 on Windows. When I look at the site in Internet Explorer instead of Firefox, the menus comes out on top of		David David		Amanda Amanda	After John has verified changes Amanda not yet notified	

2161	ESA Processing Web Page revision	7/1/2009	David		Amanda	
	Handle Tony's Pub	7/1/2009	Tony		Amanda	
		7/1/2009	Vassilis		Vladimir	
	SST, ESA and EFI Wiki pages - initial entries					
	Calibration - send sample to Vassilis and David Sibeck		Vassilis		Vladimir	
	Link to Plots		Vassilis		Vladimir	
	Data contain engineering, deployment, maneuver, and science data		Vassilis		Vladimir	
	are in the same stream. From the data description, only maneuver					
	flag state_man is provided. Do you provide information about the					
	time intervals					
	when the data are on, say, engineering level? This data, though					
	valuable in many respects, may be confusing if interpreted as					
	science data. To provide such information, it is possible, for					
	example, to add some bits to existing state_man flag. (from					
	Vladimir) Quality flags (for each instrument to be added to L2					
	, , , , , , , , , , , , , , , , , , , ,					
	State cdf).					
	L2 File Definitions Document - awaiting L1 document to be		Vassilis		Andreas	
	completed to use as template.					
	Clean-up the power ripples from the FGM data.		Krishan			awaiting programmer
	Revise the Data Products Web page and send to Amanda		David		David	arraining programmer
	. 3	7/0/0000				
	Send to Jim McFadden the format of the beginnings of the	7/6/2009	Jim		Deron and	
	Operations Log for on board changes that will effect the instrument		McFadden		John	
	data				McDonald	
	Harald					
. [	Keograms being updated.					Current status ASK through October 5
				L	<u></u>	2008
	The THEMIS movies are now up to date and finished through the	_				
	end of April. There will be a ~4 days delay because we wait with					
	the mosaic generation until that all the station data have been					
	transmitted					
	Mosaic reprocessing post-February 2008 (Full Resolution).					Process full resolution for March 1-15
	modale reprocessing post-1 ebruary 2000 (1 uli Nesolution).					2008, Jan 15 2009 and onward. (Jim M)
	Overview plots for web site done though 4/30/2009.		1		<del> </del>	2000, Jan 10 2003 and Onward. (Jilli IVI)
			+		1	
	CDF file up to date through 4/30/2009. During the tail season I kept					
	these up to date every 10 days. Now I planned to keep up with this					
	task only once a month somewhere around the 10th of the following					
	month.					
	Summary Plots through March 2008.					
	L2 ASI cdf's					
	When L2 ASI available Quality Flags and History Status?		1		1	
	Tim					
2174	Reprocess VC files -> L0 packets, L0 packets -> L1 CDFs, and L1-			1	Tim	Pending deployment of patch to
	>L2 CDFs for all VC files from TH-D since the clock was reset. L1-			'	1 11111	processing software, Jim L. task 2173.
						,
	>L2 will probably take care of itself once the L1 files are made. VC-					Tim and Jim L. will work out the details
	>L0 and L0->L1 will need manual intervention.					and let the rest of the team know when
						the deed is done.
2068	Data Recovery		Vassilis	1	Tim	Awaiting info from Jon
2069	Support Mirror Sites		Vassilis	1	Tim	
2069a	Japan (ISAS)		Vassilis	1	Tim	
	Austria		Vassilis	1	Tim	
	France		Vassilis	1	Tim	(Rumi - not always up to date for gmags)
	UCLA – mirror site set-up		Vassilis	1	Tim	UCB sent 08T UCLA loaded 06T. Four
2009u	OCLA - Illinoi site set-up		v assilis	'	1 11111	
						bricks sent to UCLA - UCLA must
					1	reconfigure server first . UCLA will need
						to supply SSH key - RSYNC Key
2070	Support gmag data remote sites		Vassilis	1	Tim	
	Augsburg (MACC's)		Vassilis	1	Tim	
	5 5 7					amon attributes reconstruct (* 0
2070b	Alberta		Vassilis	1	Tim	gmag attributes - reprocess with fix - On
05-:						Hold for IT
	Greenland		Vassilis	1	Tim	
2071	Processing full resolution ASI data disks (Apr-Nov 2008).		Vassilis	1	Tim	On Hold for IT to complete backup.
	Reprocess of ESA L2 data from these dates and all days after until		Jim M	1	Tim	MOM reprocessing on hold, esa
						completed
2072	5/31. This is needed to fill in a missing energy bin in 88x15 full					
2072	5/31. This is needed to fill in a missing energy bin in 88x15 full electron mode.			l .		
2072	electron mode.		Dot	r	Tim	
2072	electron mode.  The CDF attributes for some of our GMAGs list the wrong location		Pat	2	Tim	
2072	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute:		Pat	2	Tim	
2137	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description It lists the cal files at:		Pat	2	Tim	
2137	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description It lists the cal files at: CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/		Pat	2	Tim	
2137	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description It lists the cal files at: CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/ But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK,		Pat	2	Tim	
2072	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description It lists the cal files at: CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/ But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK, SNKQ will be found somewhere on this site:		Pat	2	Tim	
2072	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description It lists the cal files at: CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/ But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK,		Pat	2	Tim	
2072	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description It lists the cal files at: CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/ But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK, SNKQ will be found somewhere on this site:		Pat	2	Tim	
2072	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description It lists the cal files at: CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/ But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK, SNKQ will be found somewhere on this site: http://portal.cssdp.ca:8080/ssdp/jsp/logon.jsp		Pat	2	Tim	
2137	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description It lists the cal files at: CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/ But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK, SNKQ will be found somewhere on this site: http://portal.cssdp.ca:8080/ssdp/jsp/logon.jsp					
2072	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description It lists the cal files at: CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/ But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK, SNKQ will be found somewhere on this site: http://portal.cssdp.ca:8080/ssdp/jsp/logon.jsp  Hannes  New FGM offsets for tail season		Vassilis	1	Hannes	in progress
2072 2137 2073 2074	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description It lists the cal files at: CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/ But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK, SNKQ will be found somewhere on this site: http://portal.cssdp.ca:8080/ssdp/jsp/logon.jsp  Hannes  New FGM offsets for tail season  V03 STATE			1 1	Hannes Hannes	in progress
2072 2137 2073 2074	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description It lists the cal files at: CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/ But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK, SNKQ will be found somewhere on this site: http://portal.cssdp.ca:8080/ssdp/jsp/logon.jsp  Hannes  New FGM offsets for tail season		Vassilis	1	Hannes	in progress
2072 2137 2073 2074 2074a	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description It lists the cal files at: CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/ But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK, SNKQ will be found somewhere on this site: http://portal.cssdp.ca:8080/ssdp/jsp/logon.jsp  Hannes  New FGM offsets for tail season  V03 STATE		Vassilis Vassilis	1 1	Hannes Hannes	in progress
2072 2137 2073 2074 2074a 2074b	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description   t lists the cal files at: CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/ But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK, SNKQ will be found somewhere on this site: http://portal.cssdp.ca:8080/ssdp/jsp/logon.jsp  Hannes  New FGM offsets for tail season V03 STATE Test FGM with new V03 STATE cdf		Vassilis Vassilis Vassilis	1 1 1	Hannes Hannes Hannes	in progress
2072 2137 2073 2074 2074a 2074b	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description		Vassilis Vassilis Vassilis	1 1 1	Hannes Hannes Hannes	in progress
2072 2137 2073 2074 2074a 2074b	electron mode.  The CDF attributes for some of our GMAGs list the wrong location for the calibration files in the attribute: dl.cdf.gatt.logical_source_description   t lists the cal files at: CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/ But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK, SNKQ will be found somewhere on this site: http://portal.cssdp.ca:8080/ssdp/jsp/logon.jsp  Hannes  New FGM offsets for tail season V03 STATE  Test FGM with new V03 STATE cdf See email concerning parms ("thx_sci_mode",		Vassilis Vassilis Vassilis	1 1 1	Hannes Hannes Hannes	

2075	Spin Axis offsets – Improve the new spin axis offsets calibration routine – In progress. A new technique has been developed for		Vassilis	1	Hannes		
	inside magnetosphere with high accuracy. Once complete a paper						
	to be published. Sent data to Karl Heinz, included in the distribution						
2082	Spin modeling during shadows BugZid=43		Vassilis	3	Hannes		
	Aaron						
	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	
	SCM and EFI L2 variables		David	1	Aaron		
2033c 37	L2 STATE (?) Add horizontal slider bar to top of draw area, slider vertical as well		David	1	Aaron Aaron		16
01	Add nonzontal slace but to top of draw area, slace vertical as well				Adion		10
1196	Overview plots - nodownload flag bugs 1.Catch error FILE_LINES: Error opening file. File: /Users/pcruce/data/themis/tha/l1/fgm/0000/tha_fgmcal.txt No such file or directory. Execution halted at: THM_CAL_FIT 79 2. Catch Error - Expression must be a structure in this context: DAT. Execution halted at: SPLIT_VEC 41. 4. Catch error - Expression must be a structure in this context: TMP. Execution halted at: THM_UI_OVERPLOT 561.		Pat	1	Aaron		2
1065	Another bug is that when Apply is hit (continuing from the		Michael	1	Aaron		2
	procedure in bug #1, separate e-mail), the fixed scaling (both limits) is updated in log space when I had asked for only the lower limit to be changed to center^2/(upper limit). This is not a difficult mod, but it seems to be in the draw object, and I do not know how to step through the code b/c the focus shifts away from the command line.						
1572	The # of Minor Ticks spinner isn't reset to a valid value after a non-numerical value is applied.		Aaron	2	Aaron		
1573	No message is given to the user within the gui if an overview plot fails due a date that is too early or too late (e.g. a date in 2001 or a week from today).		Aaron	2	Aaron		
2152	Layout Options produced multiple errors then crashed upon startup after I imported a tplot variable composed of byte data. I could not open the window until the data was deleted. % TIME_STRUCT: Improper time input % TIME_STRING: Improper time input		Aaron	2	Aaron	message to users	
	1) Type conversion error: Unable to convert given STRING to Integer. 2) Detected at: THM_UI_WIDGET_TREE::ADDGROUP 585 3) Type conversion error: Unable to convert given STRING to Integer. Detected at: THM_UI_WIDGET_TREE::ADDGROUP 618 4) WIDGET_TREE: String expression required in this context: <int (0)="">. % Execution halted at: THM_UI_WIDGET_TREE::ADDGROUP 618 THM_UI_LAYOUT_OPTIONS 2130</int>						
2164	Just a quick summary of the task we were discussing to fix the issue Christine reported. If we decided to do the task, it would require modifying thm_gen_overplot.pro to use a fixed zrange for all spectral plots rather than autoscaling the plots. It should be trivial. We may also want to make the same changes to thm_ui_gen_overplot.pro, so we can be sure that the GUI	7/6/2009	Pat	2	Aaron		
2168	overviews match the online overviews.  Add a task for the page options window to add font/color/size/alignment control for a panel title. Currently there is	7/13/2009	Cindy	2	Aaron		
	no way to control the way a panel title is displayed.						
	Bryan				_		
2020	If requesting 1 hour of data using timespan, then load data using one of our load data routines. Recommend if there is a fix at the load cdf level and generic.		Vassilis	1	Bryan	to be discussed at software meeting eta 7/20	
2013	Think about making 2D slices through distribution. See medical		Vassilis	2	Bryan	wait until July	
2013a	imaging code in IDL demo."  2D first migrate code into crib		Vassilis	2	Bryan	done - talk to Vassilis about checking in	
2013h	2D with med imaging code		Vassilis	2	Bryan		
2013c	3D slices		Vassilis	2	Bryan		
	thm_load_state - phase II (consult with Ken)			2	Bryan		
	Finishing the coordinate transformation of the thm_load_state data	-	Vassilis	2	Bryan	await discussion of 2126	
	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 and Ken)						
	thm_load_state out_coord velocity calculations wrong		Vassilis	2	Bryan	Discuss of Oath	
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	Bryan	Discuss at Software Meeting - also related to 2141 and 2135	
2028	Variable units – generic solution - thm_load_spin, _state, _hsk,		Vassilis	3	Bryan		
_020	_sst_esa_bau_fgm,_fbk,_fft,_fit,_scm,_efi,_trg,_asi, _gmag,_ask,_mom,_esa_pkt		3		-	990717 - Themis Software Task Priorities R	ev A1.xls
	_gmag, _ask, _mom, _esa_pkt		Ŭ		200	os. // momo conware rask i nonties in	~ v , \ 1 . AlO

2029	From Hannes		Hannes	3	Bryan		
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	Bryan		
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	Bryan		
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	Bryan		
2030	upgrade thm_load to work with probe assignments		Vassilis	3	Bryan		
2031	move functionality of thm_load_state2 into thm_load_state and delete thm_load_state2		Vassilis	3	Bryan		
2032	Multiple enhancements concerning keywords, valid_names and thm_load routines		Vassilis	3	Bryan		
962	Cindy When selecting data, L1 and L2 can be selected at the same time and the result was confusing. since the low-level commands can only load one or the other, the GUI interface should enforce the same restriction.		David Sibeck	1	Cindy		
2113	Many of the data processing routines that are tested here do not inherit the plotting options from the tplot variable that they take as input. For data processing routines that I've written Vassilis has had me modify them so that they inherit these options. It shouldn't be very hard to do this, but whether we do it or not depends on whether we think these data processing routines are useful only for the gui or for the command line user as well. (		Pat	1	Cindy	in progress	
2114	Load routines to all support keywords suffix and relpathnames_all.			1	Cindy	in progress	
2119	There's a possible bug thm_gen_overplot when an illegal device is set with the DEVICE keyword. The code doesn't check to make sure if the graphics device is valid. It passes the test script because thm_gen_overplot has its own catch error statement embedded in the code. The catch statement does report, "Graphics device not available: a", but only after data have been loaded and tplot vars have been created. If a long time range is requested this could be a significant waste of time to the user.			1	Cindy		
2120	NO_DOWNLOAD keyword missing from thm_load_fbk.			1	Cindy		
2122	THM_LOAD_MOM doesn't recognize the datatype keyword for L1 data. (It does for L2).			1	Cindy		
2165 1551	Update FBK Test Suite The hourglass cursor does not stay on consistently while an overview plot is being generated.	7/6/2009	David - Pat Aaron	2 2	Cindy Cindy		
1578	When calling: timespan, '2008-01-29/00:00:00',1,/day thm_load_state,probe='d',coord='dsl',/get_support_data It is printing the following error: % THM_COTRANS: input tplot variable is not a 3-vector. This may not be a big deal, or it may be indicative of the coord argument failing.		Pat	2	Cindy	on hold - may be solved by 2126	
2134	In the current version, if you rename a quantity in the manage data panel, it automatically changes the labels. This may not be appropriate now that we read label defaults when import, as it can sometimes replace a perfectly good label. We probably want to fix this code, so that it is more careful before replacing a plot label.		Pat	2	Cindy		
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	Cindy	use tplot crib sheets to identify tplot options	

1302	After we had zoomed in a crazy amount, an error in the x-axis rendering showed up. It is probably not a likely case, but may be	Pat	BL	Open	tbd		
	worth looking into. I've attached a document & png that should demonstrate the error.						
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	Cindy		
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	Cindy		
2098	An IDL crib sheet has been provided that generates magnetic field and position data with the same resolution. Scientists very often like to have a set of dayfiles of magnetic field data and position. So the crib heet could be called inside a loop and for each day an output ASCII file could be produced. An option could be all 5 spacecraft merged with only one time column. Additionally a desired resolution could be another option		Hannes	3	Cindy	wait until end of July	32
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]			3	Cindy		
2117	minvar_matrix_make documentation is a little sparse, so it couldn't hurt to improve the function header.			3	Cindy		
2118	With a pre-mission and future dates, thm_gen_overplot does not exit gracefully. The user sees a lot of "Remote file not found messages", but is not offered any indication that the date requested is before the mission began. It would also be useful to have a check for when DATE plus DUR is greater than the current date, and then ignore the requested days beyond the current.			3	Cindy		
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	Cindy		
2014	Hithesh Peter wrote code to reset ETC Kicker (1/8 or 1/9) after hang-up.		Peter	1	Hithesh	Will run test on model sim until flatsat is	
			Peter	ı	пшезп	available.	
2014c	First try to simulate in Modelsim. If unable to freeze ETC, then move to hardware simulation. If the problem is caused by Asynchronous signal (sun pulse), we won't be able to simulate the problem		Peter	1	Hithesh	Need to find some time on flatsat. Flatsat busy with Artemis.	
2015	Logic Analyzer setup		Vassilis	1	Hithesh	Dorothy will look at 7/13-7/17. Need to get update from her.	
2157	The ground-computed SC_POT to on-board computed SC_POT do not agree all the time. Jim McFadden thinks it is because of sampling jitter.		Jim McFadden	tbd	Hithesh	ETU not responding. Peter is looking into it.	
2167	Helping Deron with SDT test on Probes.  Jim L		Deron		Hithesh		
2024 2173	GUI Training for Stephen Mende Add patch to VC->L0 and L0->L1 processing to fix TH-D clock		David	1	Jim L Jim L	in progress	
2130	anomaly FGM offset study/debug for European Folks		Vassilis	1	Jim L	Sent FGM folks data and plots and	
2146	Eclipse times from spin model user should be able to get some kind of feedback as to whether the spin phase and spin period are derived from "fresh" sun pulses or interpolated between eclipse start/end times. (From Edita G.)		FGM Team	1	Jim L	awaiting their response	
2159 2034	Complete L1 File Definitions Document V03-L2 cdf STATE		David Vassilis	1	Jim L	eta 7/10	
	writing some code to fill in the position and velocity variables for GSE and GSM coordinates.		Vassilis	1	Jim L Jim L	automation in progress	
2034d	I need to add support to thm_load_state (and any load/cal routines that call thm_load_state, e.g. thm_cal_fgm) for specifying which version V00, V01, V02, V03 should be used for cotrans and calibration		Vassilis	1	Jim L	in progress enough data for Hannes to start testing	
2034e	I need to enhance the spinmodel routines to use Hannes' spin phase correction, if present With these code changes in place, we can hopefully make some kind of comparison between FGM data calibrated/cotrans-ed with V02 vs. V03 state to verify that the V03 attitude and spin phase corrections are working properly.		Vassilis	1	Jim L	In progress won't happen before 5.1 is released, so this work will occur in a private branch instead of the trunk.  Testing of V03 spin axis orientation (by Hannes) can start now, then we'll do another round of tests when the spinmodel code is modified to use the V03 spin phase corrections.	

2034f	revised QA script for STATE (path finder for other scripts to be revised later)	Vassilis	1	Jim L	Still in progress. V03 missing variables are fixed. QA scripts for thm_load_state in progress, but probably won't be ready for 5.1 release. Waiting for Hannes to complete his testing.	
2149	They were also asking when we'll be getting rid of the spikes in the L1 FGM data (Bugzilla #44 and #67). I told them that this is already in the queue, and I should be getting to it very soon. Maybe now is the time?	FGM Team	1	Jim L		
2149a	Packet lookahead in L0->L1 processing (Bugz #67)	FGM Team	1	Jim L		16
2149b	Apply despike algorithm to current packet if next packet has different range (Bugz #44)	FGM Team	1	Jim L		16
2149c	When a and b are coded and tested, build new tmtools release and start using it for automated processing.	FGM Team	1	Jim L		8
2149d	Reprocess all L1 FGM data (which should trigger L2 FGM reprocessing as well) will run for several days, should probably wait until "new justice" is operating reliably)	FGM Team	1	Jim L	Set-up only, then goes to Tim or Jim M	1
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).	
2076	SM coord transformation in thm_cotrans does not work: fixing that would be too drastic a change for a patch release, because it might break a lot of existing code. The issue is: if the in_coord parameter is not explicitly specified, and the dlimits structure also does not specify the coordinate system, do we want to try to figure it out from the "in_suffix" argument (current behavior, doesn't work for SM coords), or just fail with a message that a coordinate system must be specified with either the in_coord argument or dlimit structure (probably a better solution, but might break existing code).	Vassilis	2	Jim L	Issue Warning and not to let it fail. Clarification Needed	
1563	We were just griping about how long the Overview plots take to load, and I was thinking, what if the Overview Plot window, had a list of check boxes that would enable the user to turn off certain plots? That way if they don't care about the AE index plot, they could turn it off and speed up the load of the rest of overview plots. Here's some more food for thought: didn't we recently discuss the possibility of making an AE index CDF, and let the users download that instead of downloading all the data necessary to recalculate it client-side? Another candidate for that sort of treatment might be the time intervals for slow survey, fast survey, particle burst, and wave burst that's another calculation that requires a large volume of data to be downloaded to produce a tiny product, but only a trivial amount of extra work if it's done on the server side.	Bryan/JimL	2	Jim L	Separate L1	
2147	FGM spin harmonics correction (remove interference from solar array currents). David Fisher has produced several tables (each table valid for a few months; correction varies with sun angle) of FGM correction vs. spin phase	FGM Team	2	Jim L and/or Hannes		
2147a	Decide on how to represent tables for use in thm_cal_fgm (keep as ASCII? convert to CDF?), get full set of corrections, convert to the desired format, install somewhere under /disks/themisdata (probably alongside FGM cal files?)	FGM Team	2	Jim L and/or Hannes		16
2147b	Add a step to thm_cal_fgm to load the appropriate correction tables for the probe & time interval being processed, use spin phase at each sample and interpolate within table to find correction at that point, apply correction. There should be a way to disable this correction (e.g. /NO_HARMONIC_CORRECTION keyword or similar, since David F. will need to periodically create new tables from the uncorrected data as data continues to accumulate).	FGM Team	2	Jim L and/or Hannes		40
2147c	Reprocess L2 FGM products with enhanced code	FGM Team	2	Jim M or Tim	It might make sense to delay 2147c and 2148b L2 reprocessing until the 2149d L1 reprocessing is performed.	
2148	ADC non-linearity correction: This was proposed as a correction to (i.e. reprocessing) the L1 FGM CDFs, but I think it really belongs in thm_cal_fgm as the very first step. There are jumps in the X, Y, and Z components of the FGM data when the field increases or decreases past some thresholds. Dragos Constantinescu has sent some IDL code to implement the correction, but today I'm told that this code doesn't work that well, and Dragos will be rewriting it to reflect that the size of the jump depends strongly on the rate of change as well as the threshold value.	FGM Team	2	Jim L and/or Hannes		

24.400	2s) Incomparate Dragged ands in the coll fam (hold off on	CCM Toom	2	line I		4.0
2148a	3a) Incorporate Dragos' code in thm_cal_fgm (hold off on implementing until Dragos delivers improved algorithm; estimate 2	FGM Team	2	Jim L		16
	days from receipt of revised code?)			and/or Hannes		
2148b	Reprocess L2 FGM products with enhanced code (Jim McT,	FGM Team	2	Jim M or	It might make sense to delay 2147c and	
21100	combine with 2147c?)	i Oivi rouiii	-	Tim	2148b L2 reprocessing until the 2149d L1	
					reprocessing is performed.	
2036	GOES 10-12 Test data: h. update labels (Howard's request - minor	Vassilis	2	Jim L	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	tweak)					
2038	STATE Web Page (s)	Vassilis	2	Jim L	revew 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		
2042	FGM range changes in the mid packet. Post Proc maybe a solution	Vassilis	2	Jim L		
	to eliminate the spike. BugzID=44. Bfield mid-packet jumps.					
2042	Defeator repeated CDE library code in CDE processing tools	Vassilia	2	line I		
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	Vassilis	2	Jim L		
2040	Command Line Script - first template (s) functional blocks then	Vassilis	_	OIIII E		
	scripts for FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag,					
	State, SST, ESA					
2047	Separate E and B timestamps for spin fits: a) make a revised V02	Vassilis	2	Jim L		
	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					
2047a	FGS sample times and values, showing repeated timestamps.	Vassilis	2	Jim L		
	BugzID=113 (BugzID=67 must be done first)					
2047b	Repeated timestamps and gaps in spin fit data BugZid=113 (#67	Vassilis	2	Jim L		
	may fix this one as well).					
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.	Vassilis	3	Jim L		
	BugzID=25, low priority.					
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	Christine	3	Jim L		
	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					
	know that their magnitude should equal 1. Sqrt(x*2+y*2+2*2)=1					
	Jim M					
2048	Process full resolution for March 1-15 2008, Jan 15 2009 and	Vassilis	1	Jim M	on March 8, 2008. Stopped On hold for IT	
2040	onward.  MOM Quality Flags and MOM Processing History	\/ccs!!'-	4	line NA	Poody to go Weiting for ECA	
2049	INION Quality Flags and INION Processing History	Vassilis	1	Jim M	Ready to go. Waiting for ESA	
2050	Incorrect adjustment on S/C potential. Effects L2 cdfs. Fix in	Vassilis	1	Jim M	reprocessing to complete.  In progress. Received dates from Deron.	
2050	thm_cal_mom	v assills	- 1	JIIII IVI	in progress. Received dates from Defon.	
2951	New ESA Quality flag for Jim McFadden	Jim	1	Jim M	in progress, processing to wait until	
2331	TYOW LOT Quality may for our five adden	McFadden	'	JIIII IVI	current reprocessing done	
2052	Add quality flag verbiage to ESA and MOM Data Description web	David	1	Jim M	Talk to Jim McFadden > 7/13	
	page.		•			
2053	Revise ESA Processing History Web Page	David	1	Jim M	Awaiting reprocessing completion	
2054	Issue with ESA data and Overview Plots. Pgm Change and		1	Jim M	Ready to go. Waiting for reprocessing to	
	reprocessing from Feb 2009-current ?				complete.	
			ETC-s	sst-esa table	load TH-A 2009-02-02 22:30:14.	
					load TH-D 2009-02-13 20:36	
			ETC-s	sst-esa table	load TH-E 2009-02-13 22:27	
			ETC-s	sst-esa table	load TH-B 2009-02-17 23:50:38	
					load TH-C 2009-02-18 00:52:20	
24.45	Droblem with ACI orib when using the common distinct facility					
2145	Problem with ASI crib when using the command 'ctime,/cut' to	Pat	2	Jim M	email from Harald	
1	generate the movies, it generates an error if you scroll out of bounds. The exact error message produced is: Error: -161					
	Attempt to subscript <ptrheapvar289> with I is out of range.</ptrheapvar289>					
	% Stop encountered: \$MAIN\$ 58					
	% Stop encountered: \$MAIN\$ 58 /home/pcruce/IDLWorkspace/themis/examples/thm_crib_asi.pro % Program caused arithmetic error: Floating illegal operand					

reprocess ESA         master cdf           2056 SCM L2 cdf         Vassilis         2 Jim M in progress           2057 SCM CAL File Processing Doc         Vassilis         2 Jim M text completed. Put in progress	
data from drby on 2009-6-9 at 500 see resolution. Traceback Report from THM, ULL OADED, DATA: "DPRCC. SMAINS THM, UL. DPRCC. PANEL_EVENT-C: (GUNTHEMIS, GUNThemist In In previous protection of the composition of the com	ter cdf rogress completed. Put into std document
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2092 thm_load_mom changes - reconcile mods with Davin at an Vassilis 2 Jim M	
appropriate time.	
2093 AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis 3 Jim M	
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2094 Overview plot change: mode bar seems thick Vassilis 3 Jim M nothing we can do ea	ing we can do easily
2095 Mosaic Processing - permanent script needed Vassilis 3 Jim M	
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Integrate Nishamura's Note routine as an option into   THM_SCPOTZDENS   John Bonnell   2   Michael	2099c				1	Michael	J.B. to send Jim McFadden info
21022   FBK frequencies   John Bonneil   2   Michael	2099d	Integrate Nishamura's Npot routine as an option into			1	Michael	On Hold
2102c Make sure that bin center assignment from L2 works with any changes that Jim M. makes 2102d John wants to calibrate by signal source – thm_cal_fbk  2103d Sch wants to calibrate by signal source – thm_cal_fbk  2104 L2 CDF  2105 EFC calibration Document  2106 EFI Calibration Document  2106 Pat  2107 Pat  2108 Pat  2109 Pat  2109 Pat  2109 Pat  2109 Pat  2109 Pat  2109 Pat  2100 Verified data with output from Bryce, Waiting for John B to verify units on tplot output. Will now should check with the MOC (loks to get the latest versions of the calibration parameters.  2109 While I was documenting the draw object I noticed a bug in the way variables are drawn. The routine that calculates the space variables are drawn. The routine that calculates the space variables are drawn. The routine that calculates the space variables are drawn. The routine that calculates the space variables are drawn. The routine that calculates the space variables are drawn. The routine that calculates the space variables are in the left column and right column, it will overestimate the amount of space that variables take and draw the panels with too much space.  2109 If you have a completed Pat 1 - Pat 2 to Pat.  2109 Pat 3 Aaron completed Pat 1 - Pat 2 to Pat.  2109 Pat 4 Aaron completed Pat 1 - Pat 2 to Pat.  2109 Pat 4 Aaron completed Pat 1 - Pat 2 to Pat.  2109 Pat 4 Aaron completed Pat 1 - Pat 2 to Pat.  2109 Pat 4 Aaron completed Pat 1 - Pat 2 to Pat.  2109 Pat 4 Aaron completed Pat 1 - Pat 2 to Pat.  2109 Pat 4 Aaron completed Pat 1 - Pat 2 to Pat.  2109 Pat 4 Pat	2102	_		John Ronnell	2	Michael	
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get me the offsets and the switch-over times.  2104 L2 CDF    John Bonnell   2   Michael   J. B. to talk to Vassilis about expectations for users. Michael to find out what the programming task is.    David   2   Michael   Michael   J. B. to talk to Vassilis about expectations for users. Michael to find out what the programming task is.    David   2   Michael   Mic	2102d			John Bonnell	2	Michael	
2104 L2 CDF  John Bonnell 2 Michael J. B. to talk to Vassilis about expectations for users. Michael to find out what the programming task is.  2105 EFI Calibration Document  Pat  2006 boundary normal coordinates. BugzID=59. 2102 Italking with Mcadden this week, as well as doing some of my own work, it seems that it would be very useful to have THM_LOAD_HSK be able to produce TPLOT variables with housekeeping data in physical (calibrated) units; ie. IEFI_IBIAS in nA instead of RAW Th units. The conversions are straightforward and well-documented, although we should check with the MCC folks to get the latest versions of the calibration parameters.  1303 While I was documenting the draw object I noticed a bug in the way variables are drawn. The routine that calculates the space variables occupy, ignores layout row/column, so if variables are in the left column and right column, it will overestimate the amount of space that variables take and draw the panels with too much space.  I'm not sure that this is might priority because we aren't putting a lot of effort into deal with multi-column layouts. But bugs like this are probably replicated in a number of places. Specifically, code that: (1) assumes panels will be lined up in a single column. (2) assumes that panel index will correspond to display position. Will have problems.  We may want to put a note to test this in the next phase of testing, so that we can identify all the problems in this set.  Another example:  The variable panel assumes (2), so that if panels are arranged out of order it selects the incorrect default when opened.	2103	EAC offsets		John Bonnell	2	Michael	
2105 EFI Calibration Document  Pat  2006 boundary normal coordinates. BugzID=59. 2162 talking with Mcfadden this week, as well as doing some of my own work, it seems that it would be very useful to have THM_LOAD_HSK be able to produce TPLOT variables with housekeeping data in physical (calibrated) units; ie. IEFI_EIBAS in nA instead of RAWTM units. The conversions are straightforward and well-documented, although we should check with the MOC folks to get the latest versions of the calibration parameters.  1303 While I was documenting the draw object I noticed a bug in the way variables occupy, Ignores layout row/colum, so if variables are in the left column and right column, it will overestimate the amount of space that variables take and draw the panels with too much space.  I'm not sure that this is might priority because we aren't putting a lot of effort into deal with multi-column layouts. But bugs like this are probably replicated in a number of places. Specifically, code that:  (1) assumes panels will be lined up in a single column.  (2) assumes that panel index will correspond to display position.  Will have problems.  We may want to put a note to test this in the next phase of testing, so that we can identify all the problems in this set.  Another example:  The variable panel assumes (2), so that if panels are arranged out of order it selects the incorrect default when opened.							times.
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2141	When adding the wavpol crib to the distribution, Olivier mentioned a	Pat/Olivier	1	Pat	
2	limitation in the TDAS pwrspc & dpwrspc routines, that we may want to consider fixing. We may want to add a keyword so that "they allow to change the frequency resolution by merging near frequency channels."	T de Cilvioi		, at	
2037	J. Kissinger's cotrans routine (from GSE to SSE coordinates)	Vassilis	2	Pat	SPICE/ICY lib installed. Routines to generate data in progress. Talk with Jim L. re: integration of this data into a cdf.
2009	Be able to plot ASI & GMAG observatory positions and GOES data on the same plots that are generated by THEMIS Station keyword executing thm_crib_trace.pro	Pat	2	Pat	Wait until Vassilis comes back in July
1565	I noticed while trying to export an EPS of some FGH that the fan compression algorithm can be very slow. A little while back, I thought of a way to make the algorithm much faster at the expensive of slightly worse compression ratios. I think this could be well worth implementing after this release and I don't think it would take too long.	Pat	2	Pat	
2063 2139	Make A-E Index an L1 cdf.  I noticed that when calc performs an operation that reduces the number of dimensions on a tplot variable, it doesn't reduce the number of labels and/or colors, which can cause tplot to issue a	Pat Pat	2 2	Pat Pat	in progress - talk to Tim
1121	warning when a result is plotted.  Overview plots - need to figure out how to handle memory issues with tplot variables.	Bryan	2	Pat	
2155	The manage data window crashes when I try to load ASI data into the gui. Two pop-up messages are produced prior to the crash notifying the user that the data has the wrong dimensions to be loaded (this should happen), the first of the messages below was from one of those pop-ups. Traceback Report from THM_UI_LOADED_DATA::ADDDATA: THM_UI_MANAGE_DATA <c:\gui\themis_gui\themis\thm_ui_new\panels\thm_ui_manage <c:\gui\themis_gui\themis\thm_ui_new\panels\thm_ui_manage="" data.pro(213)="" data.pro(391)="" thm_ui_manage_data_event=""> Traceback Report from THM_UI_MANAGE_DATA_EVENT: <c:\gui\themis_gui\themis\thm_ui_new\panels\thm_ui_manage data.pro(391)=""> % Variable is undefined: SUCCESS.</c:\gui\themis_gui\themis\thm_ui_new\panels\thm_ui_manage></c:\gui\themis_gui\themis\thm_ui_new\panels\thm_ui_manage>	Aaron	2	Pat	quick fix that pat has already taken care of.
2010	Tplot enhanced crib - Davin should be involved and the cribs should not be too overwhelming. Possibly multiple cribs by functions	Pat	3	Pat	waiting for Davin for info about crib sent to him
964	I noticed a bug with the x-grid thickness. For some reason if I use a style like dotted and increase the thickness, the thickness doesn't appear to increase properly for the portion of the grid near the axis itself. This is a pretty minor aesthetic thing, so I don't think it will be a big deal if we put it in the next phase.	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	
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
1555	A conversation here brought up what should probably be considered a feature. If only minor grids are on, gaps appear in the grid lines, because the grids are not drawn on major ticks. After talking about it, we were thinking a better rule would be to only maintain those gaps if major grids are turned on.	Pat	3	Pat	
447	Misc Save THEMIS document: Attempting to save to a read only file in		1		IDL Error report to ITT
	Windows outputs the correct error message, but IDL crashes immediately afterwards.				

7/17/2009 1:44 PM