		Date			Assigned		Estimate
Task #	Task Description	Opened	Reported By	Pri	To	Notes	(hrs)
	·						
	To be Assigned or Discussed		ı		ı		
2257 2258							
2259							
2260							
0406	General	7/20/2000	Michael	2	Amondo		
2186	I noticed that the Data->Collaboration Tools->(subcategories) fall behind the ARTEMIS graphic.	7/28/2009	Michael		Amanda		
	Revise the Data Products Web page and send to Amanda		David		David		
	Enhanced SST and MOM Instrument Web Pages		David		Davin		
2104	L2 CDF, quality flags	7/1/2009	John Bonnell	2	John B	J. B. to talk to Vassilis about expectations for	
0400	TAO 11 .	0/4/0000				users by 9/30/09.	
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. Eta	
						10/15	
	Fix the sign reversal of e34.	8/13/2009	Michael	tbd	John B	Eta 10/15	
	one outstanding issue with THM_LOAD/THM_CAL_EFI is that for	9/8/2009	Jim M		John B	Review Jim's fix, Eta 10/15	
	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,						
	Harald						
	ASI software - running fine as of September 17, 09:50pm				Harald		
	TI 11D (1 11)					11.14	
	Thumbnail Data (updates will come around October 10): - cdf files done until August 31, 2009				Harald	Updates ready 7-10th of the next month	
	- overview plots done until August 31, 2009						
	- movies done until July 31, 2009						
	Full-resolution raw data: - complete for 2007 and 2008				Harald	mid October 09 2 new Calgary disks	
	- reasonably complete until February-2009, waiting for transfer disks						
	from Calgary						
	Full resolution data: - data cdf done for all 2007 and 2008 and for everything available for				Harald		
	2009						
	- keogram cdf done for 2007 and 2008 and for everything available for						
	2009						
	Web site overview plots with full resolution data: - overview plots done for 2007 and 2008 and for everything available				Harald		
	for 2009						
	- overview plots done for 2007 and 2008 and for everything available						
	for						
00001	HOLA : "					HOD I ALL I GILL I AG	
2069d	UCLA – mirror site set-up		Vassilis	1	Harald	UCB has 4 bricks to be filled again. After brick transfer UCLA will need to supply SSH	
						key - RSYNC Key.	
	L2 ASI cdf's				Harald		
	When L2 ASI available Quality Flags and History Status?				Harald		
0044	Hannes	0/4/0000					
2241	Determine 2009 V03 STATE spin phase and spin axis corrections	9/4/2009	Jim L and Hannes	1	Hannes		
2074c	quality flag for FGM data		Vassilis	2	Hannes	on hold	
	Spin modeling during shadows BugZid=43		Vassilis	2	Hannes	Jim L to write routine. Hannes send info.	
	Vladimir						
	Load routines to all support keywords suffix			2	Vladimir		-
	NO_DOWNLOAD keyword missing from thm_load_fbk.		Vassilis	2	Vladimir	needs testing	
∠∪85	Summary Plot mods		v assills	2	Vladimir	Vassilis to review test plots. Vladimir to make few changes	
2085a	Fix duplicate velocity units by removing 'km/s' from ytitle and		Vassilis	2	Vladimir		
	maintaining 'km/s' in ysubtitle						
2085b	Either make velocity labels into ('X','Y','Z') or make velocity labels into		Vassilis	2	Vladimir		
	'VX','VY','VZ'. So that the components are easier to distinguish.						
2085c	Modify ytitles on esa eflux and sst eflux so that they do not collide.		Vassilis	2	Vladimir		
	(Insert '!C's or change setting to make tplot do this automatically).			_			
2085d	Set the scales on the zoomed out(24 hr) plots so that they are not		Vassilis	2	Vladimir		
	autoscaled. Information on appropriate yranges should come from Vassilis.						
2085e	Change labels on temperature lines so that they are done in different		Vassilis	2	Vladimir		
	colors (and possibly different linestyles).						
2085f	If necessary, Update the plot key so that it reflects any of the changes		Vassilis	2	Vladimir		
	above. It'd probably be best to give this task to me, since I've done the past modifications of the plot key.						
<u> </u>	uno past modifications of the plot key.						

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2085h	change plot key		Vassilis	2	Pat	when 2085a-g completed	
2200	FIT web pages info		David	2	Vladimir	See David for Template	
	Acres						
2022	Aaron		Dovid	1	Aoron		
	VMO file generation One variable change to ASI files and possibly the whole repository		David David	1	Aaron Aaron	changes sent to Jan	
	SCM and EFI L2 variables		David	1	Aaron	awaiting Jim M sign-off	
	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		Vassilis	1	Aaron	in progress	
	of our load data routines.: EFI and SCM						
	2-D, 3-D slices enhancements		\			Talk to Andrea, Christine, Shanshan	
2013g	Integrate into gui - load slices in idl medical imagery software a 2D/3D option to Analysis pull down menu 2. Create new window		Vassilis	1	Aaron	data analysis gui section in progress	
	allowing user to select options including widgets for					in progress	
	a. data type						
	b. type of slice 2D or 3D,						
	c. calendar date, d. left/right arrow keys to allow user to scroll through data 3. From						
	the new window						
	a. If 2D selected launch the 2D window						
	b. If 3D selected launch both the 2D and 3D windows c. TBD how the two windows will interact 4. Modifications will need						
	to be made to Bryans code for this application 5. Will need to handle						
	automatic loading of calibration and/or ancillary						
2013j	Make plot_part_slice2d.pro more complete by adding in plotting		Vassilis	1	Aaron		
2013k	keywords/options available in thm_esa_slice2d. Create our own version of slicer3.pro that can take user input to setup		Vassilis	1	Aaron		
	colors, orientation, etc. when it's called.						
	Integrate our own slicer3.pro gui with regular 2-D slice plots.	- / /	Vassilis	1	Aaron		
	Fix crib errors - Christine's list of 9/23/09 Finishing the coordinate transformation of the thm_load_state data at	9/23/2009	Christine Vassilis	2	Aaron Aaron	not allow velocity to go bad	
20276	input, to include transformation of spinaxis attitude, need to		V d55III5		Aaion	not allow velocity to go bad	
	determine keyword switch, implement the rotation of the spinaxis						
	elevation/azimuth from gei to arbitrary coordinates (consult with Pat,						
4570	Vassilis)		Dot	2	Aoron		
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		Pat	3	Aaron		
	fails to load the y-axis. This should be fixed, as it ends up						
	incorrectly loading certain spectral quantities.						
2121	When thm_load_fit is called requesting a single data type it will also			3	Aaron		
	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.						
2028	Variable units – generic solution - thm_load_spin, _state, _hsk,		Vassilis	3	Aaron		
	_sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi, _gmag, _ask, _mom, _esa_pkt						
2029	From Hannes		Hannes	3	Aaron		
2029a	Provided is the most common plot used by scientists that look at		Hannes	3	Aaron		
	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,						
2029b	The level 2 CDF files at		Hannes	3	Aaron		
20200	http://themis.ssl.berkeley.edu/data_download.shtml should contain				7.0.0		
	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.						
000-							
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.		Hannes	3	Aaron		
	should all be empty. It could be those variables still contain data from						
	the previously loaded interval.						
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		Vassilis	3	Aaron		
	thm_load_state2						
2032	Multiple enhancements concerning keywords, valid_names and		Vassilis	3	Aaron		
	thm_load routines				<u> </u>		
	Cindy						

0040					0: 1		
2013g 2239	It looks like we may need to make some small modifications to the Load Themis Data panel to make it work correctly with the changes in thm_load_state. Bug #1 I just got the new version and noticed that if I load probe state/pos with gei coords selected, it correctly load tha_state_pos(in GEI), but now also loads tha_state_pos_gse and tha_state_pos_gsm. This is almost certainly because these new coordinate systems were just added to the state file. It should have only loaded the coordinate system requested. Also, if you request another coordinate system using the interface, it will transform all three into that coordinate system. So if I select coord='dsI', I will get tha_state_pos,tha_state_pos_gse,tha_state_pos_gsm, but despite their names, they will all actually be in DSL coordinates. Bug #2 We need to modify the panel so that it does not transform velocities incorrectly. Right now, if I load probe a/state/vel in spg coords, it will perform an incorrect transformation of the velocity into SPG. (incorrect as per our discussion on the limitations of the cotrans routine with respect to velocities) I don't think it should do this.		Vassilis Pat	1	Cindy Cindy	in progress	4-8 hrs
	Jim L						
2213	Anyway, I have found a burble (not monotonic) in the eff data type time series in this cdf file: thc_I1_eff_20070720_v01.cdf	8/11/2009	Michael	0	Jim L	Ready for reprocessing, yet the reprocessing on hold pending completion of 2238.	
2240	I have a couple of other minor changes to make to the GOES master CDF, in addition to the b_gsm coordinate system fix, and a few tweaks to the processing scripts	8/15/2009	Jonathan Rae	1	Jim L		
	FGE-FGH comparison thm_cotrans now tries to access spinmodel data even when it's not necessary, and if no spinmodel data is loaded an unnecessary error message is produced.	9/8/2009 9/10/2009	Jim L	1	Jim L Jim L	in progress	8-16 hrs
2247	Another undesirable change between tdas_5_11 and the trunk has to do with the 'probe' keyword argument to thm_cotrans. In tdas_5_11, either the single letter 'a b c d e' or the longer 'tha thb thc thd the' names were accepted. In the trunk version, the longer 'thx' values are no longer accepted.	9/10/2009	Jim L	1	Jim L		1 hr
2130	FGM offset study/debug for European Folks		Vassilis	1	Jim L	Offset Data - more analysis in progress (see J Bonnell)	
2034	V03-L2 cdf STATE		Vassilis	1	Jim L	,	
2034f	revised QA script for STATE (path finder for other scripts to be revised later)		Vassilis	1	Jim L	Jim will do for STATE and then Pat will do 2034g	
Note	Make GSE and GSM position and velocity's slectable in the GUI At this point, we should be able to install the new master CDF, and move the reprocessed state CDFs from QA into production (with a heads-up to Tami that a new batch is on the way). The reprocessed CDFs will still be compatible with TDAS 5_11 we're only adding new variables, not taking anything away. Once the reprocessed CDFs are in place, we'll want to make the		Vassilis	1	Jim L	wait until Hannes reviews	1-2 hrs
	following changes in TDAS:						
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	all 2149 tasks in progress	
2149e	Detect and repair time tags in L0->L1 processing when sample rate changes mid-packet (depends on 2149a)		Jim L and Michael	1	Jim L	see 2213	
2149f	Reprocess L0->L1 for data types susceptible to time tagging problems due to sample rate changes		Jim L and Michael	1	Jim L	see 2213	
	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.	
2149h 2248	integrate time tag fixer-upper with TDAS load routines once in a while (maybe 10-20 occurrences per probe during the entire	9/10/2009	Jim L Jim L	1	Jim L Jim L	assign when 2149e started see 2149g and h	
	mission), the FGM range doesn't change on all three axes at once:	3/10/2009				·	
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	
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	
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		
2148a	3a) Incorporate Dragos' code in thm_cal_fgm (hold off on implementing until Dragos delivers improved algorithm; estimate 2 days from receipt of revised code?)	FGM Team	2	Jim L and/or Hannes		16
2148b	Reprocess L2 FGM products with enhanced code (Jim McT, combine with 2147c?)	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.	
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) L1 Data Processing History Info: SCM, EFI, STATE	Vassilis Vassilis	2	Jim L Jim L	Clarification needed	
2042	FGM range changes in the mid packet. Post Proc maybe a solution to eliminate the spike. BugzID=44. Bfield mid-packet jumps.	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 scripts for FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag, State, SST, ESA	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		
	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 . 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	Vassilis Christine	3	Jim L Jim L		

2256	Jim M It appears the multiprobe plots are not being produced since Sept 7th	9/29/2009	Vassilis	0	Jim M		
2199	AE Index - quality control check plots for traces without gaps	8/3/2009	Vassilis	1	Jim M	Train Tohbans to edit file. See Tai and Jonathan	
2048	Process full resolution for March 1-15 2008, Jan 15 2009 and onward.		Vassilis	1	Jim M	March 1-15, 2008 complete. Start Jan 30, 2009 at Jan 28,2009 and processing. Second processor Feb 20,2009. Going to March 15, 2009	
2056	SCM L2 cdf		Vassilis	1	Jim M	test files have to be sent to SPDF with enhanced meta data	
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	
	L2 EFI cdf (quality flags)	8/31/2004	Vassilis	1	Jim M	in progress all done except quality flags. That to come 10/15	
2234	ESA velocity (thb - 8/11/09) less than 10 to the -10 change to nan's	9/8/2009	Vladimir	1	Jim M	test files to be reviewed to sent SPDF	
2232	MOM - quality flags converted to binary, saturation flag, solar wind flag and maneuver flag, data desc and processing history web page updates. Change pointer to Processing History in master cdf.	9/8/2009	Vladimir	1	Jim M	test files to be reviewed to sent SPDF	
	ESA - quality flags converted to binary, maneuver flag, data desc and processing history web page updates. Change pointer to Processing History in master cdf.		Vladimir	1	Jim M	test files to be reviewed to sent SPDF	
2245	ESA and MOM Reprocessing when 2232-2234 are done, update data description and processing history web pages	9/10/2009	Vladimir	1	Jim M		
2227	L2 SST cdf revisions	8/31/2004	Vassilis	1	Jim M	awaiting SST calibrations	
2061 2254	Data Description Paragraphs - EFI, SCM, FFT, ASI and GMAG Review all Summary Plot Changes from Vladimir	9/21/2009	David Vassilis	2+ 2+	Jim M Jim M		
2099e	Integrating Npot code.	7/24/2009	Toshi	2+	Jim M	Pat will check Michael's machine - scpotne	
2252	a routine thm_l1gen_scmode, which will generate spacecraft mode CDFs with values detected from the data.(so the values are actual mode, not requested values from issr housekeeping quantity). This needs to be integrated into our daily processing and reprocessed back to the beginning of the mission. I figured this is probably in Jim's ballpark. The master cdfs are in \$svnroot/thmsoc/trunk/idl/thmsoc/l1gen/mastercdfs/	9/23/2009	Pat	2+	Jim M	in progress eta 10/2	
2183b	L0->L1 Processing determine start and stop times of particle burst modes and put into an L1 cdf.	7/27/2009	Vassilis	2	Pat	Jim M to add to L2 processing script, must process from start of mission	
2057	SCM CAL File Processing Doc		Vassilis	2	Jim M	text completed. Put into std document format and send to Olivier for review	
2058	found 3 errors in the new th*_I2_esa masters - the good news is, with them fixed in our masters, all plotting issues w/ the ESA files (in CDAWeb) seem to have been resolved.		Vassilis	2	Jim M		
2060 2175	L2 cdf Quality Flags: for SST L2 File Definitions Document - awaiting L1 document to be completed		Vassilis David	2	Jim M Jim M		
2062	to use as template. Alberta - At the moment the data files are from Dawson (daws),		Vassilis	2	Jim M		
2087	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	lim M		
2087	Administrator's Guide Themis Developers Guide		Vassilis	2	Jim M Jim M		
	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		
	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	
	AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: minor nuisance		Vassilis	3	Jim M		
	Overview plot change: mode bar seems thick Mosaic Processing - permanent script needed		Vassilis	3	Jim M Jim M	nothing we can do easily	
	EFI calibration		Vassilis 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	

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		
	Japan (ISAS)		Vassilis	0	Pat		
	Austria		Vassilis	0	Pat		
2069c			Vassilis	0	Pat	(Rumi - not always up to date for gmags)	
	Support gmag data remote sites		Vassilis	0	Pat		
	Augsburg (MACC's) Alberta		Vassilis Vassilis	0	Pat Pat		
	Greenland		Vassilis	0	Pat		
	revised QA script for STATE (path finder for other scripts to be revised later)		Vassilis	1	Pat	On hold until Jim L finishes 2034f	
	change plot key		Vassilis	2	Pat	when 2085a-g completed (Vladimir)	
2218	Can you change the way the plot menu switches plots? If I start with TH-A and zoom in to a 2 hr plot, then switch to TH-B, the web page automatically zooms out to the whole day. Can we change it so it stays on a 2 hr scale? I thought it used to do this. It would also be useful if when one changed s/c, it automatically updated the plots without having to further click on the display button. This way you could set all the other buttons ,mo,date,time), and then just change the s/c.	9/21/2009	Jim McFadden	2	Pat		
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	Pat	in progress - feedback from David Fisher, Uli and Edita	
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	Pat		
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	Pat		
2147c	Reprocess L2 FGM products with enhanced code		FGM Team	2	Pat	It might make sense to delay 2147c and 2148b L2 reprocessing until the 2149d L1 reprocessing is performed.	
2086	Orbit Plot on Summary Plot web page - on the right side, 3 plots vertically, each overview plot there would be orbit panels (coordinate with Harald).		Vassilis	2	Pat		
2089	Thm_fgm_overviews currently loads the data out of the fit file. It should probably load the data out of the fgm file. Only needs to load from one data source. Jim M thinks the thm_load_fit can be deleted		Vassilis	2	Pat	done - discuss	
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 climits 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 climit structure (probably a better solution, but might break existing code).		Vassilis	2	Pat		
	Add ability allow user to set personal preferences once, so they don't have to do it each time they bring the GUI up. Create user profile so that plots/fonts/colors/sizes/titles/etc will always be set to user's choice.	8/1/2009	Bob Strangeway and other(s)	2	Pat	additional items	
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	use tplot crib sheets to identify tplot options - get list together	16
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

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. One feature that was never implemented for the mini-language is globbing.(The ability to use '*' and '?' to reference multiple tplot	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	
	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.						
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		
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
447	Misc 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