Task#	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate (hrs)
	·						
0000	To be Assigned or Discussed	0/07/0000	) ( '''	,			
2223 2231	Discuss Spiking - despiking	8/27/2009	Vassilis	n/a	Jim L:		
2232							
2233							
2234							
2235							
2236							
2033	General VMO file generation		David	1	Aaron		
	One variable change to ASI files and possibly the whole repository		David	1	Aaron Aaron	changes sent to Jan	
2033b	SCM and EFI L2 variables		David	1	Aaron		
2033c	L2 STATE (?)		David	1	Aaron		
	FFK and FFT web pages - develop on beta site	7/15/2009	David		Amanda	make mods on beta and new thumbnails	
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	=/00/0000	David		David		
	Contact Toshi to develop FIT web pages	7/28/2009	David		David		
0404	Enhanced SST and MOM Instrument Web Pages	7/4/0000	David	0	Davin	LD to tollete Vessille about our extensions for	
2104	L2 CDF, quality flags	7/1/2009	John Bonnell	2	Michael	J. B. to talk to Vassilis about expectations for 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	
			<u> </u>			the offsets and the switch-over times.	<u>                                     </u>
2216	Fix the sign reversal of e34.	8/13/2009	Michael	tbd	John B		
	Greenland data total magnetic field is only about 250 nT even if no		Vassilis		J Weygand	Waiting for student to have time.	
	baseline subtracted (from Harald).						
2163	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		
	Haveld						
	Harald ASI software - running fine as of August-27, 2:13 pm				I		
	Full-resolution raw data - complete for 2007 and 2008					reasonably complete until February-2009, waiting	
	Tall resolution raw data complete for 2007 and 2000					reasonably complete until 1 ebruary 2005, waiting	
	Thumbnail Data (updates will come around September 10):						
	- cdf files done until July 31, 2009						
	- overview plots done until July 31, 2009						
	- movies done until July 31, 2009						
	•						
	Full resolution data:						
	- data cdf done until November 2008 (still running)						
	- keogram cdf done until December 2008 (still running)					Jan and Feb 08 missing, now processing Feb 08	
	- overview plots done until December 2008 (still running)						
	- keogram overviews complete for 2008, need to redo all 2009						
	L2 ASI cdf's						
	When L2 ASI available Quality Flags and History Status?						
	Tim	- / /			_		
2221	Reprocess FGM from May 1, 2009 onward	8/24/2009	Hannes	0	Tim	reprocessing started 8/31 am	
2219	Andrei Runov just pointed out a bug in the labels for the fitmom and fitgmom overview plots. The fix was tiny. The only snag is this	8/27/2009	Andrei Runov	0	Tim	Pat has fixed. Fitmom and fitgmom Overview Plots to be Reprocessed. See Pat with any	
	means we'll need to reprocess the old plots so that the labels will					questions	
	be accurate. The was to switch the labels for magt3 from eV/cc to					questions	
	eV.						
	Support Mirror Sites		Vassilis	1	Tim		
	Japan (ISAS)		Vassilis	1	Tim		
2069b			Vassilis	1	Tim		
	France		Vassilis	1	Tim	(Rumi - not always up to date for gmags)	
2069d	UCLA – mirror site set-up		Vassilis	1	Tim	UCB sent 08T UCLA loaded 06T. Four bricks	
	·					sent to UCLA - UCLA must reconfigure server first	
						. UCLA will need to supply SSH key - RSYNC	
						Key	
	Support gmag data remote sites		Vassilis	1	Tim		
2070a	Augsburg (MACC's)		Vassilis	1	Tim		
2070b	Alberta		Vassilis	1	Tim		
2070c	Greenland		Vassilis	1	Tim		
2072	Reprocess of ESA L2 data from these dates and all days after until	-	Jim M	1	Tim	few holes in ESA data reported by SPDF. Jim M	
	5/31. This is needed to fill in a missing energy bin in 88x15 full		1			has found bug in pgm. Jim M will commit and	
	electron mode.		1			notify Tim to reprocess effected dates.	
2074	Hannes		\/!!'	0	I I	on hold	
	quality flag for FGM data		Vassilis Vassilis	2	Hannes	on hold  Jim L to write routine. Hannes send info.	
∠∪ō∠a	Spin modeling during shadows BugZid=43		vassilis	4	Hannes	Jim L to write routine. Hannes send into.	
	Vladimir						

2114	Load routines to all support keywords suffix and relpathnames_all.			2	Vladimir	See Bryan if there are questions	8 hrs
2120	NO_DOWNLOAD keyword missing from thm_load_fbk.			2	Vladimir	See Bryan if there are questions	4 hrs
	Summary Plot mods		Vassilis	2	Vladimir	See Jim M if there are questions	
2085a	Fix duplicate velocity units by removing 'km/s' from ytitle and maintaining 'km/s' in ysubtitle		Vassilis	2	Vladimir	See Jim M if there are questions	
2085b	Either make velocity labels into ('X','Y','Z') or make velocity labels into 'VX','VY','VZ'. So that the components are easier to		Vassilis	2	Vladimir	See Jim M if there are questions	
	distinguish.						
2085c	Modify ytitles on esa eflux and sst eflux so that they do not collide. (Insert '!C's or change setting to make tplot do this automatically).		Vassilis	2	Vladimir	See Jim M if there are questions	
2085d	Set the scales on the zoomed out(24 hr) plots so that they are not autoscaled. Information on appropriate yranges should come from Vassilis.		Vassilis	2	Vladimir	See Jim M if there are questions	
2085e	Change labels on temperature lines so that they are done in different colors (and possibly different linestyles).		Vassilis	2	Vladimir	See Jim M if there are questions	
2085f	If necessary, Update the plot key so that it reflects any of the changes above. It'd probably be best to give this task to me, since I've done the past modifications of the plot key.		Vassilis	2	Vladimir	See Jim M if there are questions	
2200	FIT web pages info		David	2	Vladimir	See David for Template	
2200	, ii noo pagoo iiio		Daviu		viauiIIII	200 David for Formplate	
	Bryan						
2122	THM_LOAD_MOM doesn't recognize the datatype keyword for L1 data. (It does for L2).			1	Bryan		
2230	Find out cause of apparent periodicity about phi in Xiaojia's energy spectrum plots.	9/4/2009	Shasha	0	Bryan		
	Fix cribs from Jiang	8/12/2009	Jiang	1	Bryan	in progress - check for routines to be deleted	
2013	Think about making 2D slices through distribution. See medical imaging code in IDL demo."		Vassilis	2	Bryan		
	Modularize plotting related code		Vassilis	2	Bryan	in progress	
	Rewrite crib		Vassilis	2	Bryan		
	Integrate into gui		Vassilis	2	Bryan		
	2D with med imaging code 3D slices		Vassilis Vassilis	2	Bryan Bryan		
	thm_load_state		vassiiis	2	Bryan		
	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 and Ken)		Vassilis	2	Bryan	on hold until V03 State completed - not allow velocity to go bad	
2041	thm_load_state out_coord velocity calculations wrong		Vassilis	2	Bryan		
	State Vector -> remove coord keyword	7/20/2009	Pat/Jim L	2	Bryan	give them suffix's - review with 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	Bryan	on hold - may be solved by 2126	
2020b	If requesting 1 hour of data using timespan, then load data using one of our load data routines.: EFI and SCM		Vassilis	2+	Bryan		
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	Bryan		
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	Bryan		
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 2147 and 2135	
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	Bryan		
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		
	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.				<i>_</i> , <i>,</i>		
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		Hannes	3	Bryan		
2020	from the previously loaded interval.		Vassilia	2	Drugo		
2030	upgrade thm_load to work with probe assignments move functionality of thm_load_state2 into thm_load_state and		Vassilis Vassilis	3	Bryan Bryan		
	delete thm_load_state2						
2032	Multiple enhancements concerning keywords, valid_names and thm_load routines		Vassilis	3	Bryan		
2229	Cindy The str2time and time_struct are used within the gui. The actual	9/4/2009	Davin's	1	Cindy		
2223	code changes Davin made should not affect the gui, but it's probably worth taking the system for a spin, just in case.	9/4/2009	chnages	'	Ciridy		
2210	I ran into a bug in the gui, I'm betting it is OS dependent. When I added a label that was longer than the displayable number of characters in the axis option label selection drop list, it shifted the droplist selection arrow off the widget so that the selection arrow no longer worked. This is an IDL bug, but I think there is a simple workaround.	8/19/2009	Pat	1	Cindy		< 4 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	In progress. Problem is more complicated than it first appeared due to variable internal delays in Digital Fields Board; need to discuss DFB internal processing details with John Bonnell and Chris Cully	
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		
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	Thm_load_state done. Analysis to determine which other routines need fixing will be done These are routines that call thm_load_state internally. Will review with Michael and Olivier. TBD V03 corrections apply to other instruments. There are keywords in thm_citrans to control.	
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	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.					wait until Hannes reviews	
Note						_	
Note	Once the reprocessed CDFs are in place, we'll want to make the following changes in TDAS:					7	
2149	following changes in TDAS:  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		FGM Team	1	Jim L	all 2149 tasks in progress	
2149 2149a	following changes in TDAS:  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?  Packet lookahead in L0->L1 processing (Bugz #67)  Apply despike algorithm to current packet if next packet has		FGM Team FGM Team FGM Team	0 1	Jim L Jim L Jim L	all 2149 tasks in progress	
2149 2149a 2149b	following changes in TDAS:  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?  Packet lookahead in L0->L1 processing (Bugz #67)		FGM Team	0	Jim L	all 2149 tasks in progress  tmtools 6_00 release built & tested with 2149a	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	Waiting for Vassilis to approve use of tmtools 6_00 "as is" for automated processing, and reprocessing L1 STATE (V03 and additional variables), FIT and FGM (range changes).	1
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		
2149f	Reprocess L0->L1 for data types susceptible to time tagging problems due to sample rate changes	Jim L and Michael	1	Jim L		
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	tbd	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	integrate time tag fixer-upper with TDAS load routines	Jim L and Michael	1	tbd	assign when 2149e started	
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).	
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	P3	
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		
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.		Vassilis	2	Jim L	
	BugzID=113 (BugzID=67 must be done first)					
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.		Vassilis	3	Jim L	
2081	BugzID=25, low priority.  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					
0040	Jim M	0/40/0000	\/ !:- '	4	Dies NA	Code is all online and tested the section 1. 1. 1. 1.
2219	On CDAWeb, I have ordered ThB L2 ESA field-aligned ion temperature for 2009-08-01/00:00 till 12:00 as well as the same from ThB MOM data. Both quality flags turned out to be 0 (good data). However, the temperature components from the MOM data have the order of magnitude of 10-30 eV while the ESA data show about 500 eV. The latter value corresponds to what one can see on the ESA peir spectrogram (solar wind). Time dependence is also different, especially around 11:00. This question adds to the previous one asked by Hui Zhang about 2009-08-19 (in ThB data, the ESA and MOM ion velocities from the moments differ).	8/13/2009	Vladimir	1	Jim M	Code is all online and tested, I've got a 'bad site' data file for 1-jul-2009 through 2-sep-2009. I need to verify that the thmsoc auto-process is properly deleteing sites. Eta 9/4
2199	AE Index - quality control check plots for traces without gaps	8/3/2009	Vassilis	1	Jim M	Train Jonathan eastwoord to train other Tohbans
2048	Process full resolution for March 1-15 2008, Jan 15 2009 and		Vassilis	1	Jim M	March 1-15 complete. Start Jan 15, 2009 at Jan
2053	onward.  Revise ESA and MOM Processing History Web Page		David	1	Jim M	22,2009 5am and processing.
2056	SCM L2 cdf	0/0/0000	Vassilis	1	Jim M	in progress, prototype -tweaking master cdf
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	John and Jim to meet 9/4
2225	L2 EFI cdf	8/31/2004	Vassilis	1	Jim M	Not started, need input from John B about what will be in the L2 EFI files
2226	L2 MOM cdf revisions	8/31/2004	Vassilis Vassilis	1	Jim M	
2227 2057	L2 SST cdf revisions SCM CAL File Processing Doc	8/31/2004	Vassilis	2	Jim M Jim M	text completed. Put into std document format and
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 CDAWeb) seem to have been resolved.		Vassilis	2	Jim M	send to Ölivier for review
2059	L2 Data Processing History Info Completed: ESA, MOM Still to be Done: SST, FGM, FBK, FFT, FIT		Vassilis	2	Jim M	
2060	L2 cdf Quality Flags: for SST		Vassilis	2	Jim M	
2175	L2 File Definitions Document - awaiting L1 document to be completed to use as template.		David	2	Jim M	
2061	Data Description Paragraphs		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 2224	Themis Developers Guide 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 Vassilis	2	Jim M 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	
	snow now to do this. (< than a day)					

2091	Once Jim McFadden completes his mods for n_3d_new_3		Vassilis	2	Jim M		
2001	reprocess L2 cdf's - entire mission		7 4.000	_	•		
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	
2099	npot computation		Jim McFadden	3	Jim M		
2099a	Formula		Jim McFadden	3	Jim M	McFadden has found bugs in the pipeline. I am on hold until he works those out (he is working	
2099c	McFadden requires more information on the bias changes from John as of 6/5		Jim McFadden	3	Jim M	with Bonnell and Mozer).  Check with Jim McFadden	
2099d	Integrate Nishamura's Npot routine as an option into THM_SCPOT2DENS		Vassilis	3	Jim M	I guess this has become 2099e. McFadden basically took the ball, so THM_SCPOT2DENS is unused. If McFadden comes back with an algorithm, then we can resurrect THM_SCPOT2DENS. If McFadden comes back with his own routine, then we go with that. See 2099e.	
2099e	Integrating Npot code.	7/24/2009	Toshi	3	Jim M	This is Nishimura's stand-alone routine. I envision it being called by THM_SCPOT2DENS (as an option) which would be called by THM_FITGMOM_OVERVIEWS. In discussion between Angelopoulos, McFadden, and Nishamura.	
2099f	Writing a crib to demonstrate how to use the code to remove penetrating electrons from ESA e- and ion data	7/24/2009	Toshi	3	Jim M	tbd	
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	
	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		
	Michael						
2170	Port LASP axial calibration to eff datatype -> can we?	7/13/2009	John Bonnell	1		in progress	
2101	THM_SPINFIT simulates the on-board spin fits		John Bonnell	2	Michael		
2102	FBK frequencies		John Bonnell	2	Michael		
2102c	Make sure that bin center assignment from L2 works with any		John Bonnell	2	Michael	look at this week	
0.40=	changes that Jim M. makes	=///0000	5	_			
2105	EFI Calibration Document Pat	7/1/2009	David	2	Michael	put together an outline of thm_cal_efi	
2203	Improve interface on Plot/Layout Window for spectral vs. linear data	8/6/2000	Programming	1	Pat		
2203	improve interface of Florizayout willidow for spectral vs. intear data	0/0/2009	Team		Γαι		
2195	When I print a plot with the landscape mode turned on, the plot is clipped in half. There may be cross-platform issues using the landscape flag in the IDLgrPrint object to generate landscape plots. We should probably test on various platforms to see. If this is just an isolated issue, it may not be worth worrying about, as printer support in IDL is intermittent anyway, but if this is more widespread, we may need to deal with this by performing the landscape transformation on the output scene by rotating/translating the scene prior to output. Also, if we decide that printer support is not a		Pat	1	Pat	put out warning message	
955	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)	1	Pat	in progress	16 hrs
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	
2183	L0->L1 Processing determine start and stop times of particle burst modes and put into an L1 cdf.	7/27/2009	Vassilis	2	Pat		
2213	I get a log of errors like this from THM_SPINFIT (after running the crib and plotting the data): TPLOT(398): 32 tha_efp_spinfit_npoints MPLOT: Incorrect number of labels. This is, of course, non-fatal, but should be cleaned up.		John Bonnell	2	Pat	John has approved	
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	9/21/2009	Jim McFadden	2	Pat	Post 10/1/09	

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		
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		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	Pat		40
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		
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	Pat	Issue Warning and not to let it fail. Clarification Needed	
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	
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		
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	4-8 hrs
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		4 hrs
2187	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	16-24 hour
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		4 hrs

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		Aaron	3	Pat	verify note in quick reference guide and then task will be closed	
0400	the meantime the alternate method of calling gettime that I copied you on yesterday should provide a temporary way around this bug.		Pat		Det		
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	
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		
	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	