		Date			Assigned		Estimate
Task #	Task Description	Opened	Reported By	Pri	To	Notes	(hrs)
	To be Assigned or Discussed The routine for the final step of the FGM process that removes the spin tone is provided by a scientist named Ferdinand Plaschke. There may be some issues with how long this step in the process takes to run, as it may end up the limiting factor on how long it takes to reprocess the FGM.	10/15/2009	Pat			to discuss at 10/19 S/W meeting	
2261	Hannes just mentioned a crash that he got from a function called "root_data_dir", he sounded understandably frustrated. It seems that on windows, "root_data_dir" normally defaults to "c:" except if you have an 'e:', then it defaults to 'e:' regardless of what 'e:' happens to be. In Hannes's case, this was flashdrive that shouldn't have had data written to it. And it messed up his flashdrive.	10/9/2009	Pat	1	tbd	discuss again at 10/19 S/W meeting	
2263	I think the way log minor ticks are spaced when the ticks have more than order of magnitude spacing isn't quite right. By which I mean that I see it done differently on publication plots. Right now, the minor ticks are placed so that they logarithmically divide an entire tick interval. On publications I often see it with the minor ticks only spanning a single order of magnitude, even if the major ticks span multiple orders of magnitude.	10/12/2009	Pat	tbd	tbd	to discuss at 10/19 S/W meeting	
2266		10/16/2009	Jim McFadden	tbd	Jim L	discuss request from Jim McFadden	
2267 2268							
2269							
2186	General I noticed that the Data->Collaboration Tools->(subcategories) fall behind the ARTEMIS graphic.	7/28/2009	Michael	2	Amanda		
	Revise ESA and MOM quality flag web pages Revise the Data Products Web page and send to Amanda	10/14/2009	David David	2	Amanda David		
	Enhanced SST and MOM Instrument Web Pages		David		Davin		
2103	EAC offsets	8/1/2009	John Bonnell	2	John B	John has taken AC coupled data -> he will get me the offsets and the switch-over times. Eta 10/15	
2216	Fix the sign reversal of e34. 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,	8/13/2009 9/8/2009	Michael Jim M	tbd	John B John B	Eta 10/15 Review Jim's fix, Eta 10/15	
	Harald						
	ASI software - running fine as of September 17, 09:50pm				Harald		
	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 - reasonably complete until February-2009, waiting for transfer disks				Harald	mid October 09 2 new Calgary disks	
	from Calgary						
	Full resolution data: - data cdf done for all 2007 and 2008 and for everything available for 2009				Harald		
	- keogram cdf done for 2007 and 2008 and for everything available for 2009						
	Web site overview plots with full resolution data:				Harald		
	- overview plots done for 2007 and 2008 and for everything available for 2009 - overview plots done for 2007 and 2008 and for everything available for						
2069d	UCLA – mirror site set-up		Vassilis	1	Harald	UCB has sent 4 bricks to UCLA. After brick transfer UCLA will need to supply SSH key - RSYNC Key.	
	L2 ASI cdf's When L2 ASI available Quality Flags and History Status?				Harald Harald		
2241	Hannes Determine 2009 V03 STATE spin phase and spin axis corrections	9/4/2009	Jim L and	1	Hannes		
	When V03 State is reprocessed - reprocess Ascii Files	10/8/2009	Hannes Jim L	1	Hannes		
2258		15/5/2003	Vassilis	2	Hannes	on hold	
	quality flag for FGM data						
	quality flag for FGM data Spin modeling during shadows BugZid=43 Vladimir		Vassilis	2	Hannes	Jim L to write routine. Hannes send info.	

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2120	NO_DOWNLOAD keyword missing from thm_load_fbk.			2	Vladimir	Jim M to check and committ	
2085			Vassilis	2	Vladimir	on wite eneck and communic	
	Fix duplicate velocity units by removing 'km/s' from ytitle and maintaining 'km/s' in ysubtitle		Vassilis	2	Vladimir		
2085b	Either make velocity labels into ('X',Y','Z') or make velocity labels into 'VX','VY','VZ'. So that the components are easier to distinguish.		Vassilis	2	Vladimir		
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		
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		
2085e	Change labels on temperature lines so that they are done in different colors (and possibly different linestyles).		Vassilis	2	Vladimir		
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		
2085h	change plot key		Vassilis	2	Pat	when 2085a-f completed	
2200	FIT web pages info		David	2	Vladimir	in progress	
	. 0						
	Aaron						
2033	VMO file generation		David	1	Aaron	ahangaa aant ta lan	
2033a	One variable change to ASI files and possibly the whole repository		David	1	Aaron	changes sent to Jan	
	SCM and EFI L2 variables V03 L2 STATE - revision needed?		David David	1	Aaron Aaron	awaiting Jim M sign-off send Jan an email	
	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				5		
2013	2-D, 3-D slices enhancements					Talk to Andrea, Christine, Shanshan	
	Integrate into gui - load slices in idl medical imagery software		Vassilis	1	Aaron	data analysis gui section	
	a 2D/3D option to Analysis pull down menu 2. Create new window allowing user to select options including widgets for 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					in progress - show interface in gui when done to Vassilis and Andrea for feedback	
	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 keywords/options available in thm_esa_slice2d.		Vassilis	1	Aaron		
2013k	Create our own version of slicer3.pro that can take user input to setup colors, orientation, etc. when it's called.		Vassilis	1	Aaron		
	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	9/23/2009	Christine	2	Aaron		
2027e	Finishing the coordinate transformation of the thm_load_state data at input, to include transformation of spinaxis attitude, need to determine keyword switch, implement the rotation of the spinaxis elevation/azimuth from gei to arbitrary coordinates (consult with Pat, Vassilis)		Vassilis	2	Aaron	not allow velocity to go bad	
1579	When importing a variable with a valid 'V' component in its data struct, but no spec flag set in its meta data, the loaded data object fails to load the y-axis. This should be fixed, as it ends up incorrectly loading certain spectral quantities.		Pat	3	Aaron		
2121	When thm_load_fit is called requesting a single data type it will also			3	Aaron		
	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, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi,		Vassilis	3	Aaron		
2029	_gmag, _ask, _mom, _esa_pkt		Hannes	3	Aaron		
	From Hannes 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:		Hannes Hannes	3	Aaron Aaron		
	define keyword /positions default 'none', allow GSM X Y Z, R Lat Long,						

2029b							
	The level 2 CDF files at http://themis.ssl.berkeley.edu/data_download.shtml should contain position in various coordinate systems as well. Preferably in the same resolution as the data. Otherwise Scientists need to get the position from another source. Notes from Vassilis: option to introduce the data in RE with keyword (one RE =6,478 kilometers???). Like thm_load_fgm /pos_units= 'RE'. Also thm_load_state keyword out_coord = 'GSM', 'GSE',etc.		Hannes	3	Aaron		
2029c	If one loads fgm data from probe 'a' and let's say there are no data for the chosen interval. The variables tha_fgl and tha_fgl_gsm etc. should all be empty. It could be those variables still contain data from the previously loaded interval.		Hannes	3	Aaron		
2030	upgrade thm_load to work with probe assignments		Vassilis	3	Aaron		
2031	move functionality of thm_load_state2 into thm_load_state and delete thm_load_state2		Vassilis	3	Aaron		
2032	Multiple enhancements concerning keywords, valid_names and thm_load routines		Vassilis	3	Aaron		
	Cindy						
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='dsl', I will get tha_state_pos,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		Pat	1	Cindy	in progress	4-8 hrs
	respect to velocities) I don't think it should do this.						
2213	Jim L 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	Reprocess efi and scm into QA. Then update selected records.	
2238	Jim L 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 FGE-FGH comparison	8/11/2009	Michael	0	Jim L Jim L	·	
2238	Jim L Anyway, I have found a burble (not monotonic) in the eff data type time series in this cdf file: thc_l1_eff_20070720_v01.cdf	9/8/2009 9/10/2009	Michael Jim L			selected records.	1 hr
2238 2247 2130	Jim L Anyway, I have found a burble (not monotonic) in the eff data type time series in this cdf file: thc_l1_eff_20070720_v01.cdf FGE-FGH comparison 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. FGM offset study/debug for European Folks	9/8/2009 9/10/2009	Jim L Vassilis	1 1	Jim L Jim L Jim L	selected records.	1 hr
2238 2247 2130 2034	Jim L 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 FGE-FGH comparison 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. FGM offset study/debug for European Folks V03-L2 cdf STATE	9/8/2009 9/10/2009	Jim L Vassilis Vassilis	1 1 1	Jim L Jim L Jim L	selected records. after 5/2007 all okay Offset Data - more analysis in progress (see J Bonnell)	1 hr
2238 2247 2130 2034	Jim L Anyway, I have found a burble (not monotonic) in the eff data type time series in this cdf file: thc_l1_eff_20070720_v01.cdf FGE-FGH comparison 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. FGM offset study/debug for European Folks	9/8/2009 9/10/2009	Jim L Vassilis	1 1	Jim L Jim L Jim L	selected records. after 5/2007 all okay Offset Data - more analysis in progress (see J	1 hr
2238 2247 2130 2034 2034f	Jim L 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 FGE-FGH comparison 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. FGM offset study/debug for European Folks V03-L2 cdf STATE revised QA script for STATE (path finder for other scripts to be	9/8/2009 9/10/2009	Jim L Vassilis Vassilis	1 1 1	Jim L Jim L Jim L	selected records. after 5/2007 all okay Offset Data - more analysis in progress (see J Bonnell) Jim will do for FGM and then Pat will do	1 hr
2238 2247 2130 2034 2034f	Jim L 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 FGE-FGH comparison 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. FGM offset study/debug for European Folks V03-L2 cdf STATE revised QA script for STATE (path finder for other scripts to be revised later)	9/8/2009	Jim L Vassilis Vassilis Vassilis	1 1 1 1 1	Jim L Jim L Jim L Jim L Jim L	selected records. after 5/2007 all okay Offset Data - more analysis in progress (see J Bonnell) Jim will do for FGM and then Pat will do 2034g	
2238 2247 2130 2034 2034f 2034g	Jim L 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 FGE-FGH comparison 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. FGM offset study/debug for European Folks V03-L2 cdf STATE revised QA script for STATE (path finder for other scripts to be revised later) 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	9/8/2009	Jim L Vassilis Vassilis Vassilis	1 1 1 1 1	Jim L Jim L Jim L Jim L Jim L	selected records. after 5/2007 all okay Offset Data - more analysis in progress (see J Bonnell) Jim will do for FGM and then Pat will do 2034g discuss at software meeting	
2238 2247 2130 2034 2034f 2034g Note	Jim L 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 FGE-FGH comparison 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. FGM offset study/debug for European Folks V03-L2 cdf STATE revised QA script for STATE (path finder for other scripts to be revised later) 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	9/8/2009	Jim L Vassilis Vassilis Vassilis	1 1 1 1 1	Jim L Jim L Jim L Jim L Jim L	selected records. after 5/2007 all okay Offset Data - more analysis in progress (see J Bonnell) Jim will do for FGM and then Pat will do 2034g discuss at software meeting	
2238 2247 2130 2034 2034f 2034g Note Note 2149	Jim L 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 FGE-FGH comparison 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 'that hb thc thd the' names were accepted. In the trunk version, the longer 'thx' values are no longer accepted. FGM offset study/debug for European Folks V03-L2 cdf STATE revised QA script for STATE (path finder for other scripts to be revised later) 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 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	9/8/2009 9/10/2009	Jim L Vassilis Vassilis Vassilis Vassilis	1 1 1 1 1 1	Jim L Jim L Jim L Jim L Jim L	selected records. after 5/2007 all okay Offset Data - more analysis in progress (see J Bonnell) Jim will do for FGM and then Pat will do 2034g discuss at software meeting	

	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.
	integrate time tag fixer-upper with TDAS load routines	0/40/2000	Jim L	1	Jim L	200 21 10% and h
2248	once in a while (maybe 10-20 occurrences per probe during the entire mission), the FGM range doesn't change on all three axes at once:	9/10/2009	Jim L	1	Jim L	see 2149g and h
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).
	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
	GOES 10-12 Test data: h. update labels (Howard's request - minor tweak)		Vassilis	2	Jim L	determine if to be reassigned
	STATE Web Page (s)		Vassilis	2	Jim L	review web pages
	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
	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		Vassilis	2	Jim L	
	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	
	bau_sunpulse_met assumes x86 endiannes (BugzID=13)		Vassilis	2	Jim L	
	Phantom packets" cause non-monotonic distribution times.		Vassilis	3	Jim L	
	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	

2259 2260	SVN setup document - contact info update New NPOT not working in Summary Plots	10/5/2009 10/7/2009	Pat Jim McFadden	1 0	Jim M Jim M	
199	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
048	Process full resolution for March 1-15 2008, Jan 15 2009 and onward.		Vassilis	1	Jim M	Jonathan (week 10/19-23) March 1-15, 2008 complete. Start Jan 30, 2009 at Feb 3,2009 and processing. Second processor Feb 22,2009. Going to
056	SCM L2 cdf		Vassilis	1	Jim M	test files to be re-sent to SPDF with enhanced meta data. Will send Test Data to
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
225	L2 EFI cdf (quality flags)	8/31/2004	Vassilis	1	Jim M	in progress all done except quality flags. That to come 10/15. Then test files to be sent to SPDF and Jon Bonnell
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 have been 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 have been sent SPDF
2233	ESA - quality flags converted to binary, maneuver flag, data desc and	9/8/2009	Vladimir	1	Jim M	test files have been sent SPDF
245	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	2+	Jim M	awaiting SST calibrations
2061	Data Description Paragraphs - EFI, SCM, FFT, ASI and GMAG Review all Summary Plot Changes from Vladimir	0/04/0000	David	2+ 2+	Jim M	
254 183b	L0->L1 Processing determine start and stop times of particle burst	9/21/2009 7/27/2009	Vassilis Vassilis	2+	Jim M Pat	Jim M to add to L2 processing script, must
	modes and put into an L1 cdf.					process from start of mission
057	SCM CAL File Processing Doc found 3 errors in the new th*_I2_esa masters - the good news is, with		Vassilis Vassilis	2	Jim M Jim M	text completed. Put into std document format and send to Olivier for review
	them fixed in our masters, all plotting issues w/ the ESA files (in					
2060 2175	L2 cdf Quality Flags: for SST L2 File Definitions Document - awaiting L1 document to be completed to use as template.		Vassilis David	2	Jim M 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 Administrator's Guide		Vassilis Vassilis	2	Jim M	
2088	Themis Developers Guide		Vassilis	2	Jim M	
2224	thm_load_mom: for quantities like velocity, the coordinate system isn't stored in the meta data, and none of the units are stored in the place we normally try to store them (from Pat - Vassilis concurs) Will take a look.		Vassilis	2	Jim M	
2090	that streamlines the generation of gmag stackplots and a crib to show how to do this. (< than a day)		Vassilis	2	Jim M	
2091	Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission		Vassilis	2	Jim M	
2092	thm_load_mom changes - reconcile mods with Davin at an appropriate time.		Vassilis	2	Jim M	

2093	AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis:		Vassilis	3	Jim M		
	minor nuisance						
	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		
	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		John Bonnell	3	Jim M	On Hold - low priority	
2100p	Modify THM_CAL_FIT to treat efs datatype - Install E12/E34		John Bonnell	3	Jim M		
2100p	and the second of the second o		JOHN BOHNER	3	JIIII IVI		
	Pat						
2069	Support Mirror Sites		Vassilis	0	Pat		
2069a	Japan (ISAS)		Vassilis	0	Pat		
2069b	Austria		Vassilis	0	Pat		
	France		Vassilis	0	Pat	(Rumi - not always up to date for gmags)	
	Support gmag data remote sites		Vassilis	0	Pat	(rann ner am aye ap is also is ginage)	
	Augsburg (MACC's)		Vassilis	0	Pat		
	Alberta		Vassilis	0	Pat		
	Greenland		Vassilis	0	Pat		
2265	When new FGM Cal files come from David Fisher reprocess last 6	10/16/2009	Pat	0	Pat		
2203	·	10/16/2009	Fal	U	Fai		
0004	months.		\			0 1 11 (11 11 1 11 1 1 0004)	
2034g	revised QA script for STATE (path finder for other scripts to be		Vassilis	1	Pat	On hold until Jim L finishes 2034f	
	revised later)						
2085h	change plot key		Vassilis	2	Pat	when 2085a-g completed (Vladimir)	
		0.10 : 1-			_		
2218	Can you change the way the plot menu switches plots? If I start with	9/21/2009	Jim McFadden	2	Pat		
	TH-A and zoom in to a 2 hr plot, then switch to TH-B, the web page						
2147	FGM spin harmonics correction (remove interference from solar array		FGM Team	2	Pat	feedback looks good. Awaiting info from	
2117	currents). David Fisher has produced several tables (each table valid		1 Oill Tourn	_	, at	David Fisher concerning CAL file deliveries.	
	for a few months; correction varies with sun angle) of FGM correction					CAL file through June 2009 in place.	
	• • • • • • • • • • • • • • • • • • • •					CAL file tillough June 2009 in place.	
	vs. spin phase						
					. .		
214/a	Decide on how to represent tables for use in thm_cal_fgm (keep as		FGM Team	2	Pat		
	ASCII? convert to CDF?), get full set of corrections, convert to the						
	desired format, install somewhere under /disks/themisdata (probably						
	alongside FGM cal files?)						
04.471			FOME		Б.		
21476	Add a step to thm_cal_fgm to load the appropriate correction tables		FGM Team	2	Pat		
	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						
2147c	Reprocess L2 FGM products with enhanced code		FGM Team	2	Pat	It might make sense to delay 2147c and	
	Tropicosos 22 i om producto min cimanoca codo			_		2148b L2 reprocessing until the 2149d L1	
						reprocessing is performed.	
						reprocessing is performed.	
2148	DAC non-linearity correction: This was proposed as a correction to		FGM Team	2	Pat		
	(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						
2264	The DAC calibration has been added to the fgm calibration code and	10/15/2009	Pat	2	Pat		-
	Ferdinand Plaschke just sent me an email with the code to perform						
	the last step of the calibrations: spintone removal. I think that after						
	the enintane removal and lim's timing corrections the FCM						
955	Add ability allow user to set personal preferences once, so they don't	8/1/2009	Bob	2	Pat		
	have to do it each time they bring the GUI up. Create user profile so		Strangeway				
	that plots/fonts/colors/sizes/titles/etc will always be set to user's		and other(s)				
	choice.						
0400	When we implemented tolet and we save it are set for the set	ı	Dat	2	Dat	upo tolot orib objects to identify tolot anti-	4.0
2136	When we implemented tplot_gui, we gave it support for the most		Pat	2	Pat	use tplot crib sheets to identify tplot options -	16
1	important tplot options, but not many of the more obscure ones. It					get list together	
1	might be worthwhile to create a task for someone to go through						
1	exhaustively and implement as many tplot options as is feasible.						
1	That way people can more easily use the gui like an interactive						
2115	tplot does not fail gracefully after illegal margin set. In this case:			2	Pat		40
	tplot_options,'xmargin',[100,100], tplot does not fail gracefully after			-	1 41		
1	illegal margin set. In this case: tplot_options,'xmargin',[-1,-1]						
1							
1	-tplot does not fail gracefully after illegal margin set. In this case:						
1	tplot_options,'ymargin',[100,100]						

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	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	
	streamline the process in this case if data that was later overwritten is not loaded when you open the document.					overwrite the data or not. So while we may not be able to save on loading time we can	
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	not be able to save on loading time we can	
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		Pat/Jim L	3	Pat		
2124	I loaded a plot which had the line color as white. Because the legend		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		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		
	Misc						16-24 hour
447	Save THEMIS document: Attempting to save to a read only file in Windows outputs the correct error message, but IDL crashes			1		IDL Error report to ITT	4 hrs
	immediately afterwards.			,		_	