Task#	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimat (hrs)
	To be Assigned or Discussed						
2187	To be Assigned or Discussed  I noticed a bug in the x-axis options panel. It probably also applies	7/29/2009	Pat	tbd	Pat		1 hr
2107	to the y-axis options. If the set-all button is selected on the grid tab,	1/23/2003	i at	ibu	i at		' '''
	then changing panels doesn't update the settings on the grid tab to						
	the settings currently displayed for that panel.						
2188	The current GUI allows fixed ranges on the interval (0,inf) for	7/29/2009	Pat	tbd	tbd		4-8 hrs
	logarithmic z-axes. Meaning 0-is considered an illegal entry. For						
	spectral plots like ESA and SST that is a problem. They include 0-						
	values even though they are technically illegal values for a						
	logarithmically scaled axis.						
	A while back we added a special case so that those values can be						
	displayed, but we don't have a special case to allow users to enter						
	that value as a range.						
	It appears pretty clearly in the gui overview plots now that they have						
	fixed z-ranges.(plot attached) On the ESA & SST plots at the						
	bottom, most of those purple regions would be black if we allowed						
	the scale to be on the interval [0,inf)						
	(1)						
2192	was testing some data using future dates and found something	7/31/2009	Pat	tbd	tbd		3 hrs
	odd. It appears that the routine thm_ui_timefix, fails for dates in the						
	year 2011 and later. Clearly this won't be an issue for a couple of						
	years, but we should probably put this on the list so we don't forget						
	to fix it before it does become an issue. thm_ui_timefix is a routine						
	used by the time widget, which is in turn used by a large number of						
	panels in the gui.						
2195							
2196							
2197							
	General						
	Work on acquiring FIT web info		David		David	From Toshi	
	Enhanced SST and MOM Instrument Web Pages		David		Davin		
	New Server Installation		Vassilis		Jon L	in progress	
	Greenland data total magnetic field is only about 250 nT even if no baseline subtracted (from Harald).		Vassilis		J Weygand	Waiting for student to have time.	
	Review corrections to the EFI Web pages from Amanda		David		John B		
	Move EFI Web Pages from beta to official web site		David		Amanda	After John has verified changes	
2160	ESA Processing Web Page revision	7/1/2009	David		Amanda		
2186	I noticed that the Data->Collaboration Tools->(subcategories) fall	7/28/2009	Michael		Amanda		
	behind the ARTEMIS graphic.						
	Calibration - send sample to Vassilis and David Sibeck		Vassilis		Vladimir		
	Link to Plots		Vassilis		Vladimir		
	Data contain engineering, deployment, maneuver, and science data		Vassilis		Vladimir		
	are in the same stream. From the data description, only maneuver						
	flag state_man is provided. Do you provide information about the						
	time intervals						
	when the data are on, say, engineering level? This data, though						
	valuable in many respects, may be confusing if interpreted as						
	science data. To provide such information, it is possible, for						
	example, to add some bits to existing state_man flag. (from						
	Vladimir) Quality flags (for each instrument to be added to L2 State cdf).						
	·		Kaiahaa				
	Clean-up the power ripples from the FGM data.		Krishan		David	awaiting programmer	
0100	Revise the Data Products Web page and send to Amanda	= 10.10.000	David		David		
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		
2033	data VMO file generation		David	1	McDonald Aaron		
2033 2033a	One variable change to ASI files and possibly the whole repository		David	1	Aaron	changes sent to Jan	
_000a	2 Tandalo onango to moi mos and possibly the whole repository		David	'	, with	S. a. goo con to dan	
	SCM and EFI L2 variables		David	1	Aaron		
2033c	L2 STATE (?)		David	1	Aaron		
	Harald						
	Keograms being updated.					Current status ASK through October 5	
	The THEMIS movies are now up to date and finished through the					2008	+
	end of April. There will be a ~4 days delay because we wait with						
	the mosaic generation until that all the station data have been						
	transmitted						
	Mosaic reprocessing post-February 2008 (Full Resolution).					Process full resolution for March 1-15	
	Overview plots for web site done though 4/30/2009.					2008, Jan 15 2009 and onward. (Jim M)	
	TO VOLVIOW PIOLS FOR WED SILE HOLDE HIDRIGH 4/30/2003.						
	CDF file up to date through 4/30/2009. During the tail season I kept						
	CDF file up to date through 4/30/2009. During the tail season I kept these up to date every 10 days. Now I planned to keep up with this						
	CDF file up to date through 4/30/2009. During the tail season I kept						

_	Summary Plots through March 2008.						
	L2 ASI cdf's						
	When L2 ASI available Quality Flags and History Status?						
	Tim						
2174	Reprocess VC files -> L0 packets, L0 packets -> L1 CDFs, and L1-			1	Tim	awaiting to reprocess	
	>L2 CDFs for all VC files from TH-D since the clock was reset. L1-					awaiting to represent	
	>L2 will probably take care of itself once the L1 files are made. VC-						
	>L0 and L0->L1 will need manual intervention.						
	Compose Announcement to users for switchover	7/20/2009	David	1	Tim	When we switchover to new server	
	Test V03 State Automation	7/27/2009	Jim L	1	Tim	with Jim L	
	Support Mirror Sites	1/21/2009	Vassilis	1	Tim	With Silli L	
	Japan (ISAS)		Vassilis	1	Tim		
	Austria		Vassilis	1	Tim		
	France		Vassilis	1	Tim	(Rumi - not always up to date for gmags)	
	UCLA – mirror site set-up		Vassilis	1	Tim	UCB sent 08T UCLA loaded 06T. Four	
	oos ap		V 0000			bricks sent to UCLA - UCLA must	
						reconfigure server first . UCLA will need	
						to supply SSH key - RSYNC Key	
2070	Support gmag data remote sites		Vassilis	1	Tim	,	
	Augsburg (MACC's)		Vassilis	1	Tim		
2070b	Alberta		Vassilis	1	Tim	gmag attributes - reprocess with fix - On	
0070			.,	_	<b>T</b> .	Hold for IT	
	Greenland		Vassilis	1	Tim	On Haldfan IT to accordate banks	
	Processing full resolution ASI data disks (Apr-Nov 2008).  Reprocess of ESA L2 data from these dates and all days after until		Vassilis Jim M	1	Tim Tim	On Hold for IT to complete backup.  MOM reprocessing on hold, esa	
	5/31. This is needed to fill in a missing energy bin in 88x15 full		JIIII IVI	'	11111	completed	
	electron mode.					Completed	
			_				
	Make A-E Index an L1 cdf.		Pat	2	Tim	on hold for reprocessing	
	The CDF attributes for some of our GMAGs list the wrong location		Pat	2	Tim	on hold	
	for the calibration files in the attribute:						
	dl.cdf.gatt.logical_source_description It lists the cal files at:						
	CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/						
	But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK,						
	SNKQ will be found somewhere on this site:						
	http://portal.cssdp.ca:8080/ssdp/jsp/logon.jsp						
	Hannes						
	New FGM offsets for tail season		Vassilis	1	Hannes	in progress	
	V03 STATE		Vassilis	1	Hannes		
	quality flag for FGM data		Vassilis	2	Hannes	talk to Uli	
2075	Spin Axis offsets – Improve the new spin axis offsets calibration		Vassilis	1	Hannes		
	routine – In progress. A new technique has been developed for						
	inside magnetosphere with high accuracy. Once complete a paper						
	to be published. Sent data to Karl Heinz, included in the distribution						
					Hannes		
2082	Spin modeling during shadows BugZid=43		Vassilis	3			
2082	Spin modeling during shadows BugZid=43  Aaron		Vassilis	3			
		7/21/2009	Vassilis Pat/Jim L	1	Aaron	Print Landscape mode as well	
	Aaron	7/21/2009			Aaron	Print Landscape mode as well	
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	Aaron	7/21/2009			Aaron	Print Landscape mode as well	
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1311 2191	Aaron Add capability to go into landscape mode (page pull down menu)  Bryan		Pat/Jim L	1		Print Landscape mode as well	
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2126	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	
2114	Load routines to all support keywords suffix and relpathnames_all.			2	Bryan		8 hrs
2120 1579	NO_DOWNLOAD keyword missing from thm_load_fbk. 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 Bryan		4 hrs
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 2141 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 2029a	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: define keyword /positions default 'none', allow GSM X Y Z, R Lat Long,		Hannes Hannes	3	Bryan Bryan		
2029b	The level 2 CDF files at http://themis.ssl.berkeley.edu/data_download.shtml should contain position in various coordinate systems as well. Preferably in the same resolution as the data. Otherwise Scientists need to get the position from another source. Notes from Vassilis: option to introduce the data in RE with keyword (one RE =6,478 kilometers ???). Like thm_load_fgm /pos_units= 'RE'. Also thm_load_state keyword out_coord = 'GSM', 'GSE',etc.		Hannes	3	Bryan		
2029c	If one loads fgm data from probe 'a' and let's say there are no data for the chosen interval. The variables tha_fgl and tha_fgl_gsm etc. should all be empty. It could be those variables still contain data from the previously loaded interval.		Hannes	3	Bryan		
2030	upgrade thm_load to work with probe assignments		Vassilis	3	Bryan		
2031	move functionality of thm_load_state2 into thm_load_state and delete thm_load_state2		Vassilis	3	Bryan		
2032	Multiple enhancements concerning keywords, valid_names and thm_load routines		Vassilis	3	Bryan		
2189	Cindy  I found a graphical bug in gui. If you are plotting a constant value and autoscaling is on, it can create a plot that looks non-constant due to internal numerical error. I've attached an example plots(issue in first panel). The first one is using autoscaling, the second is using a fixed range .002 units wide.  Hithesh	7/29/2009	Pat	1	Cindy	QA other plot functions after Pat is done	2-3 hrs
2180	APID 458 compression - verify		Ops	1	Hithesh		
2014	Peter wrote code to reset ETC Kicker (1/8 or 1/9) after hang-up.		Peter	1	Hithesh	Will run test on model sim until flatsat is available.	
2014c	First try to simulate in Modelsim. If unable to freeze ETC, then move to hardware simulation. If the problem is caused by Asynchronous signal (sun pulse), we won't be able to simulate the problem		Peter	1	Hithesh	Need to find some time on flatsat.	
2157	The ground-computed SC_POT to on-board computed SC_POT do not agree all the time. Jim McFadden thinks it is because of sampling jitter.		Jim McFadden	2	Hithesh	Need some time on Flatsat.	
2194	Logic Analyzer working - look at instructions		Hithesh	2	Hithesh		
2024	Jim L GUI Trainings at UCB		David	1	Jim L	S. Mende Completed, next training for Harald Frey and Niguel 7/27	
	7/24/2000 4-20 DM					0000721 Thomas Software Took Priorities	<u> </u>

2173	Add patch to VC->L0 and L0->L1 processing to fix TH-D clock			1	Jim L		
2181	anomaly APID Compression on Probe A did not work - monitor telemetry	7/24/2009	Ops	1	Jim L	458 data uncompress, 459 not sure of status	
2130	FGM offset study/debug for European Folks		Vassilis	1	Jim L	Offset Data - more analysis in progress (see J Bonnell)	
2034 2034c	V03-L2 cdf STATE writing some code to fill in the position and velocity variables for GSE and GSM coordinates.		Vassilis Vassilis	1	Jim L Jim L	8/3-8/7	
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. Review at S/W Meeting.	
2034e	I need to enhance the spinmodel routines to use Hannes' spin phase correction, if present With these code changes in place, we can hopefully make some kind of comparison between FGM data calibrated/cotrans-ed with V02 vs. V03 state to verify that the V03 attitude and spin phase corrections are working properly.		Vassilis	1	Jim L	In progress then we'll do another round of tests when the spinmodel code is modified to use the V03 spin phase corrections.  Send Dan Cosgrove an email. Review at S/W Meeting.	
2034f	revised QA script for STATE (path finder for other scripts to be revised later)		Vassilis	1	Jim L	Still in progress. V03 missing variables are fixed. QA scripts for thm_load_state in progress, but probably won't be ready for 5.1 release. Waiting for Hannes to complete his testing. Next in queue.	
2149	They were also asking when we'll be getting rid of the spikes in the L1 FGM data (Bugzilla #44 and #67). I told them that this is already in the queue, and I should be getting to it very soon. Maybe now is the time?		FGM Team	1	Jim L		
2149a 2149b	Packet lookahead in L0->L1 processing (Bugz #67) Apply despike algorithm to current packet if next packet has		FGM Team FGM Team	1	Jim L Jim L		16 16
2149c	different range (Bugz #44) When a and b are coded and tested, build new tmtools release and		FGM Team	1	Jim L		8
21490	start using it for automated processing.		rGivi Tealii	_	JIII L		0
2149d	Reprocess all L1 FGM data (which should trigger L2 FGM reprocessing as well) will run for several days, should probably wait until "new justice" is operating reliably)		FGM Team	1	Jim L	Set-up only, then goes to Tim or Jim M	1
2035	Split L1 ESA (using Thomas's routine) in master ESA data cdf		Vassilis	2	Jim L	On Hold - awaiting Jim McFadden release: Then send David Sub Task List; Calibration variables removed from L1 data master CDF. (Side note: found and reported a bug in SKTEditor, which the Goddard team has agreed to fix) Waiting for feedback from Jim McFadden about how calibration data should be handled (TH-A ASCII calibration file (used for all probes) doesn't match anything I removed from the data CDF).	
2076	SM coord transformation in thm_cotrans does not work: fixing that would be too drastic a change for a patch release, because it might break a lot of existing code. The issue is: if the in_coord parameter is not explicitly specified, and the dlimits structure also does not specify the coordinate system, do we want to try to figure it out from the "in_suffix" argument (current behavior, doesn't work for SM coords), or just fail with a message that a coordinate system must be specified with either the in_coord argument or dlimit structure (probably a better solution, but might break existing code).		Vassilis	2	Jim L	Issue Warning and not to let it fail. Clarification Needed	
2147	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.  FGM spin harmonics correction (remove interference from solar		Bryan/JimL	2	Jim L	Separate L1	
	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				and/or Hannes		
2147a	Decide on how to represent tables for use in thm_cal_fgm (keep as ASCII? convert to CDF?), get full set of corrections, convert to the desired format, install somewhere under /disks/themisdata (probably alongside FGM cal files?)		FGM Team	2	Jim L and/or Hannes		16

24-27. Add a step to thirm, call grip in board the appropriate connection totalized by the period of the minimum propriate and propriet apply connection. These should be a very totalest etis comments (e.g., 80 M-104-60/M)C. CORNSCTION Happens or a finant the unconnected data as data connection to a co								
promotion (e.g., MO, JANGANON, CORRECTION Neyword or islands, since bound of, all most periodicially create new tribles in some the contracted data as date certificate is accordance).  21476 Approcess LF PM products with enhanced cools and a community.  2148 OC provincially certain in Time was proceed as a community to the community of the comm	2147b	each sample and interpolate within table to find correction at that	FGN	// Team	2	and/or		40
2-149 ADC roen linearity correction: This was proposed as a correction to 10.4 Perchasing the LT FOM CORS, but tomat it early belongs in 2-2 components of the FOM Attaw when the field indexesses or discreases parts of the FOM Attaw when the field indexesses or discreases parts of the FOM Attaw when the field indexesses or discreases parts of the first of the jump depends storarily or the rate of decreases parts of the first of the jump depends storarily or the rate of decreases parts of the first of the jump depends storarily or the rate of decreases parts of the first of the jump depends storarily or the rate of decreases parts of the first of the jump depends storarily or the rate of decreases parts of the first of the jump depends storarily or the rate of decreases parts of the first of the jump depends storarily or the rate of decreases parts of the first of the jump depends storarily or the rate of decreases parts of the first of the jump depends		correction (e.g. /NO_HARMONIC_CORRECTION keyword or similar, since David F. will need to periodically create new tables						
2408 Croce-linearity connection: This was proposed as a correction to (i.e. reprocessing the LF FSMC SES, but think it rest) belongs in the most of the FSM data where the field increases of the connection of the FSM data where the field increases of connections to the FSM data where the field increase of connections on the FSM data where the field increase of connections on the FSM data where the field increase of connections on the FSM data where the field increase of connections in the FSM data where the field increase of connections in the FSM data where the field increase of connections in the FSM data where the field increase of connections in the FSM data where th	2147c	Reprocess L2 FGM products with enhanced code	FGM	// Team	2		2148b L2 reprocessing until the 2149d L1	
In replacementing until Dragans deliveres improved algorithm; estimate 2 days from receipt of revised code (7) receipt of the value of 27/14/20 (2) unif M or 7 Tim PGM Team 2 unif M or 17/14/20 (2) unif M or 7 Tim PGM Team 2 unif M or 17/14/20 (2) unif M or 7 Tim PGM Team 2 unif M or 17/14/20 (2) unif M or 7 Tim PGM Team 2 unif M or 17/14/20 (2) unif M or 7 Tim PGM Team 2 unif M or 17/14/20 (2) unif M or 7 Tim PGM Team 2 unif M or 17/14/20 (2) unif M or 7 Tim PGM Team 2 unif M or 17/14/20 (2) unif M or 7 Tim PGM Team 2 unif M or 17/14/20 (2) unif M or 7 Tim PGM Team 2 unif M or 7 T	2148	(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	FGN	// Team	2	and/or		
Septimental Life Septiment	2148a		FGN	M Team	2			16
Social Costs 10-12 Test date: h. update liabele (Howard's request - minor   Vassilia   2   Jim L   Province   Vassilia   2   Jim L   Provinc	2148b	Reprocess L2 FGM products with enhanced code (Jim McT,	FGM	// Team	2	Jim M or	2148b L2 reprocessing until the 2149d L1	
2039 bad fining our pube times (early January 2009)	2036	· · · · ·	Va	assilis	2	Jim L		
Li Data Processing History Info: SCM, EFI, STATE	2038	STATE Web Page (s)	Va	assilis	2	Jim L	revew web pages	
FOM range changes in the mid packst. Post Proc maybe a solution to eliminate the spike. Bugiz04-45 felted mid-packst jumps.								
Celiminate the spike. Bug2ID-44. Brild mid-packet jumps.		ŭ .						
BiggZid-50 2046 Create and rore efficient & productive prototype QA Instrument Command Line Script - first template (s) functional blocks then scripts for FGM, ASK, SCM, FTI, MOM, ASL, EFI, FFT, FEK, Grag State, SST, ESA.  2047 Separate E and B timestamps for spin fits: a) make a revised V02 master CDF with E and B separated b) change then Joad, fit to support V01 and V02 of the L1 CDFs o, thenge then Joad, fit to support V01 and V02 of the L1 CDFs o, thenge then Joad, fit to support V01 and V02 of the L1 CDFs o, thenge then Joad, fit to support V01 and V02 of the L1 CDFs o, thenge then Joad, fit to support V01 and V02 of the L1 CDFs o, thenge then Joad, fit to support V01 and V02 of the L1 CDFs o, thenge then Joad, fit to support V01 and V02 of the L1 CDFs o, thenge then Joad, fit to support V01 and V02 of the L1 CDFs o, thenge then Joad, fit to support V01 and V02 of the L1 CDFs o, thenge then Joad, fit to support V01 and V02 of the L1 CDFs o, thenge then Joad, fit to support V01 and V02 of the L1 CDFs o, thenge then Joad, fit to support V01 and V02 of the L1 CDFs o, then Joad, fit to support V01 and V02 of the L1 CDFs o, thenge then Joad, fit to support V01 and V02 of the L1 CDFs o, then Joad, fit to support V02 of the Joad, fit to support V03 of the Joad, fit to support V02 of the Joad, fit to support V03 of the Joad, fit to support V04 of the Joad	2042		Va	assilis	2	Jim L		
Command Line Script - first template (s) functional blocks then scripts for FGM, ASK, SCM, FTI, MOM, ASI, EFI, FFT, FBK, Gmag State, SST, ESA  2047 Separate E and B timestamps for spin filts: a) make a revised VO2 master CDF with E and B separated b) change the Lob-L1 processing code (d) change the L1-L12 processing code (e) test the changes, then reprocess to create the VO2 CDF's (keeping the VO1 files around for a while to ease the transition) BugzID=45  2047a FGS sample times and values, showing repeated timestamps. BugzID=13 (BugzID=13) (BugzID=25), low priority. BugzID=25) (BugzID=13) (BugzID=25), low priority. BugzID=25) (BugzID=15) (BugzID=15) (BugzID=25), low priority. BugzID=25) (BugzID=15) (BugzID=25) (BugzID=16) (BugzID=15) (BugzID=25) (BugzID=16) (BugzID=15) (BugzID=25) (BugzID=16) (BugzID=15) (BugzID=25) (BugzID=25) (BugzID=16) (BugzID=25) (Bugz	2043		Vá	assilis	2	Jim L		
master CDF with E and B separated b) change then_load_fit to support V01 and V02 of the 1 CDFs c) change the L03-L1 processing code of change the L13-L2 processing code of least the changes, then reprocess to create the V02 CDFs (keeping the V01 files around for a while to ease the transition) BugzID=45  2047a FGS sample times and values, showing repeated timestamps. BugzID=113 ((bgzID=67 must be done (first))  2047b Repeated timestamps and gaps in spin fit data BugZid=113 (rf67 may fix this one as well).  2077 Non Monotonic timestamps. BugzID=72  2078 bau_surpulse_met assumes x86 endiannes (BugzID=13)  2089 Phantom packets' cause non-monotonic distribution times. Vassilis 2 Jim L  2080 SugzID=25, low priority.  2081 Evaluate CDF compression algorithms BugZid=81  2083 Add 'last processed' time to L1 (and L27) CDFs BugZid=115  2084 I disast processed' time to L1 (and L27) CDFs BugZid=115  2084 I disast processed' time to L1 (and L27) CDFs BugZid=115  2084 I disast processed' time to L1 (and L27) CDFs BugZid=115  2085 Vassilis 3 Jim L  2086 Christine 3 Jim L  2087 Add 'last processed' time to L1 (and L27) CDFs BugZid=115  2086 Vassilis 3 Jim L  2087 Add 'last processed' time to L1 (and L27) CDFs BugZid=115  2088 Vassilis 3 Jim L  2089 Vassilis 3 Jim L  2089 Vassilis 3 Jim L  2090 Vassilis 1 Jim M on March 8, 2008. Stopped On hold for IT on ward.  2091 Values CDF compression dequal 1. sqrt(x>2+y^2+x^2+2)=1  2092 Vassilis 1 Jim M on March 8, 2008. Stopped On hold for IT onward.  2093 MoM Quality Flags and MOM Processing History Vassilis 1 Jim M on March 8, 2008. Stopped On hold for IT onward.  2094 NOM Quality Flags and MOM Processing History Vassilis 1 Jim M on Mod completed awaiting to reprocess mode.  2095 New ESA Quality flag for Jim McFadden Jim McFadden Jim McFadden I Jim M in progress, processing to wait until current reprocessing done	2046	Command Line Script - first template (s) functional blocks then scripts for FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag,	Vá	assilis	2	Jim L		
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may fix this one as well).  2077 Non Monotonic timestamps. BugzID=72  2078 bau_sunpulse_met assumes x86 endiannes (BugzID=13)  2080 Phantom packets' cause non-monotonic distribution times.  2081 Evaluate CDF compression algorithms BugZid=81  2081 Evaluate CDF compression algorithms BugZid=81  2082 Add 'last processed' time to L1 (and L2?) CDFs BugZid=115  2083 Add 'last processed' time to L1 (and L2?) CDFs BugZid=115  2084 .transforming one data point from SM coordinates to GSM coordinates. ct=time_double(2008-02-16/04-50-00') dipole=[pll],[0],[1] = 11, 2-12, 2-13  2084 .transforming one data point from SM coordinates to GSM coordinates. ct=time_double(2008-02-16/04-50-00') dipole=[pll],[0],[1] = 11, 2-13	2047a		Va	assilis	2	Jim L		
2078 bau_sunpulse_met assumes x86 endiannes (BugzID=13) 2080 Phantom packets' cause non-monotonic distribution times. BugzID=25, low priority.  2081 Evaluate CDF compression algorithms BugZid=81 2083 Add "last processed" time to L1 (and L2?) CDFs BugZid=115 2084 Lransforming one data point from SM coordinates to GSM coordinates. ct=time_double("2008-02-16/04-50:00") dipole=[0],[0],[1],[1] v=11-2.3] store_data, dipole_sm', dipole_ges', (SSM2GSH coordinas, dipole_gsm', dipole_ges', (SSM2GSH get_data, dipole_gsm', dipole_ges', (SSM2GSH get_data, dipole_gsm', dipole_ges', (SSM2GSH get_data, dipole_gse, 2dipgse-dipole_gse.y[0] ydipgse=dipole_gse, 2dipgse-dipole_gse.y[2] gittl=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  2048 Process full resolution for March 1-15 2008, Jan 15 2009 and onward.  2049 MOM Quality Flags and MOM Processing History  2049 MOM Quality Flags and MOM Processing History  2050 Incorrect adjustment on S/C potential. Effects L2 cdfs. Fix in thm_load_mom  2051 New ESA Quality flag for Jim McFadden  2052 New ESA Quality flag for Jim McFadden  2053 Jim L  2053 Jim L  2064 Christine  2055 Jim M  2065 Add "ast processing to wait until current reprocessing to wait until current reprocessing to one data distribution times.  2066 Jim McFadden  2075 Jim M  2076 Add "ast processing to wait until current reprocessing to wait until current reprocessing to one data distribution times.  2076 Jim M  2076 Add "ast processing to wait until current reprocessing to wait until current reprocessing to wait until current reprocessing done	2047b		Va	assilis	2	Jim L		
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Add "last processed" time to L1 (and L2?) CDFs BugZid=115  2084 . transforming one data point from SM coordinates to GSM coordinates. ct=time_double(2008-02-16/04:50:00') dipole=[[0],[0],[1]] v=[1,2.3] store_data,'dipole_sm','dipole_gsm','dipole_gsm','dipole_gsm','dipole_gsm','dipole_gsm','dipole_gsm','dipole_gsm','dipole_gse,'y[3] ctrans,'dipole_gsm','dipole_gse,'y[3] get_data,'dipole_gse,'y[3] get_data,'dipole_gse,'y[1] zdipose=dipole_gse,y[2] tilt=atan(xdipose,zdipose) 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  2048 Process full resolution for March 1-15 2008, Jan 15 2009 and onward.  2049 MOM Quality Flags and MOM Processing History  2049 MOM Quality Flags and MOM Processing History  2050 Incorrect adjustment on S/C potential. Effects L2 cdfs. Fix in thm_load_mom  2051 New ESA Quality flag for Jim McFadden  3 Jim L  Christine  3 Jim L  Mim L  Jim M  on March 8, 2008. Stopped On hold for IT  on March 8, 2008. Stopped On hold for IT  vassilis  1 Jim M  Mod completed awaiting to reprocess MOM L2 cdfs for specific dates for each probe.  2951 New ESA Quality flag for Jim McFadden  Jim M  McFadden  Jim M  in progress, processing to wait until current reprocessing done		BugzID=25, low priority.						
2084 .transforming one data point from SM coordinates to GSM coordinates. ct=time_double(2008-02-16/04:50:00') dipole=[[0],[0],[1]] v=[1,2.3] store_data, dipole_sm',data={x:ct,y:dipole_ysm',SM2GSM cotrans,'dipole_gsm',dipole_gsm',GSM2GSM cotrans,'dipole_gsm',dipole_gse,yGSM2GSE get_data,'dipole_gse',data=dipole_gse xdipgse=dipole_gse.y[0] ydipsse=dipole_gse',dipole_gse,y[2] till=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  2048 Process full resolution for March 1-15 2008, Jan 15 2009 and onward.  2049 MOM Quality Flags and MOM Processing History  2050 Incorrect adjustment on S/C potential. Effects L2 cdfs. Fix in thm_load_mom  2050 New ESA Quality flag for Jim McFadden  3 Jim L  3 Jim L  3 Jim L  3 Jim L  4 Jim M  5 Jim M  6 Ready to go. Waiting for ESA reprocessing to complete.  4 Vassilis  1 Jim M  6 Mod completed awaiting to reprocess MOM L2 cdfs for specific dates for each probe.  2050 New ESA Quality flag for Jim McFadden  3 Jim L  5 Jim M  6 Jim M  7 Jim M  8 In progress, processing to wait until current reprocessing done								
coordinates. ct=time_ouble('2008-02-16/04:50:00') dipole=[[0],[0],[1]] v=[1.2,3] store_data_'dipole_sm'_data=(x:ct,y:dipole_y:v) cotrans,'dipole_gsm','dipole_gsm','SMZGSM cotrans,'dipole_gsm','dipole_gse','GSMZGSE get_data_'dipole_gse','data=dipole_gse.ytg] ydipgse=dipole_gse.yt[1] zdipgse=dipole_gse.yt[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  2048 Process full resolution for March 1-15 2008, Jan 15 2009 and onward.  2049 MOM Quality Flags and MOM Processing History  Vassilis 1 Jim M Ready to go. Waiting for ESA reprocessing to complete.  2050 Incorrect adjustment on S/C potential. Effects L2 cdfs. Fix in thm_load_mom  2051 New ESA Quality flag for Jim McFadden  Jim 1 Jim M McFadden		, , ,	Va	assilis		Jim L		
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onward.  2049 MOM Quality Flags and MOM Processing History  Vassilis  1 Jim M Ready to go. Waiting for ESA reprocessing to complete.  Vassilis  1 Jim M Mod completed awaiting to reprocess MOM L2 cdfs for specific dates for each probe.  2050 New ESA Quality flag for Jim McFadden  3 Jim M Seady to go. Waiting for ESA reprocessing to complete.  Vassilis  1 Jim M Mod completed awaiting to reprocess MOM L2 cdfs for specific dates for each probe.  3 Jim M Seady to go. Waiting for ESA reprocessing to complete.  Mod completed awaiting to reprocess MOM L2 cdfs for specific dates for each probe.  2951 New ESA Quality flag for Jim McFadden  McFadden  Jim M Seady to go. Waiting for ESA reprocessing to complete.  Mod completed awaiting to reprocess MOM L2 cdfs for specific dates for each probe.	60.1-						M 1 0 0000 0: 12 1 11 1	
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thm_load_mom  MOM L2 cdfs for specific dates for each probe.  2951 New ESA Quality flag for Jim McFadden  Jim M in progress, processing to wait until current reprocessing done  MCFadden		, ,					reprocessing to complete.	
McFadden current reprocessing done		thm_load_mom					MOM L2 cdfs for specific dates for each probe.	
	2951	, ,	McI		1		current reprocessing done	

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2052	Add quality flag verbiage to ESA and MOM Data Description web page.		David	1	Jim M	
2053	Revise ESA Processing History Web Page		David	1	Jim M	Awaiting reprocessing completion
2054	Issue with ESA data and Overview Plots. Pgm Change and	·		1	Jim M	Ready to go. Waiting for reprocessing to
	reprocessing from Feb 2009-current ?					complete.
				ETC-s	st-esa table	load TH-A 2009-02-02 22:30:14.
				ETC-s	st-esa table	load TH-D 2009-02-13 20:36
				ETC-s	st-esa table	load TH-E 2009-02-13 22:27
				FTC-s	st-esa tahle	load TH-B 2009-02-17 23:50:38
						load TH-C 2009-02-17 25:50:50
						10au 111-C 2009-02-18 00.32.20
2125	I received an error in the smoothing function with the no_time_interp keyword set (through the gui). I was using mag		Aaron	2	Jim M	
	data from drby on 2009-6-9 at 500 sec resolution. Traceback					
	Report from THM_UI_LOADED_DATA::DPROC: \$MAIN\$					
	THM_UI_DPROC_PANEL_EVENT <c:\gui\themis_gui\themis\t< td=""><td></td><td></td><td></td><td></td><td></td></c:\gui\themis_gui\themis\t<>					
	hm_ui_new\panels\thm_ui_dproc_panel.pro( 123)>					
	THM_UI_NEW_DPROC <c:\gui\themis_gui\themis\thm_ui_new< td=""><td></td><td></td><td></td><td></td><td></td></c:\gui\themis_gui\themis\thm_ui_new<>					
	\u00edtilities\thm_ui_new_dproc.pro(179)> CALL_DPROC <c:\gui\themis_gui\themis\thm_ui_new\u00edtilities\thm_ui_new_dpr< td=""><td></td><td></td><td></td><td></td><td></td></c:\gui\themis_gui\themis\thm_ui_new\u00edtilities\thm_ui_new_dpr<>					
	oc.pro( 57)> THM_UI_LOADED_DATA::DPROC					
	<c:\gui\themis_gui\themis\thm_ui_new\objects\thm_ui_loaded_< td=""><td></td><td></td><td></td><td></td><td></td></c:\gui\themis_gui\themis\thm_ui_new\objects\thm_ui_loaded_<>					
	datadproc.pro( 104)> ERROR_MESSAGE					
	<c:\gui\themis_gui\themis\thm_ui_new\utilities\error_message.< td=""><td></td><td></td><td></td><td></td><td></td></c:\gui\themis_gui\themis\thm_ui_new\utilities\error_message.<>					
	pro( 256)> Last IDL Error: Unable to concatenate variables because the dimensions do not agree: ARRAY. % Execution halted					
	at: SMOOTH_IN_TIME 153					
	C:\GUI\THEMIS_GUI\ssl_general\misc\smooth_in_time.pro					
2055	ESA L2 from L1 (not packets) - create L2 and test thoroughly, then		Vassilis	2	Jim M	On Hold; awaiting Jim L to split L1 into
	reprocess ESA					master cdf
2056	SCM L2 cdf		Vassilis	2	Jim M	in progress
2057	SCM CAL File Processing Doc		Vassilis	2	Jim M	text completed. Put 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,		Vassilis	2	Jim M	Torrial and Seria to Olivier for Teview
	with them fixed in our masters, all plotting issues w/ the ESA files					
	(in CDAWeb) seem to have been resolved.					
2059	L2 Data Processing History Info Completed: ESA, MOM Still to		Vassilis	2	Jim M	
2060	be Done: SST, FGM, FBK, FFT, FIT		Vessilie	2	lim M	
2060 2175	L2 cdf Quality Flags: for SST L2 File Definitions Document - awaiting L1 document to be		Vassilis David	2	Jim M Jim M	
2170	completed to use as template.		David	_	OIIII IVI	
2061	Data Description Paragraphs		David	2	Jim M	
2062	Alberta - At the moment the data files are from Dawson (daws),		Vassilis	2	Jim M	
	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 lan 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					
2085	able to retrieve from Alberta Summary Plot mods		Vassilis	2	Jim M	
2085a	Fix duplicate velocity units by removing 'km/s' from ytitle and		Vassilis	2	Jim M	
	maintaining 'km/s' in ysubtitle			-		
2085b	Either make velocity labels into ('X','Y','Z') or make velocity labels		Vassilis	2	Jim M	
	into 'VX','VY','VZ'. So that the components are easier to					
000-	distinguish.				,,	
2085c	Modify ytitles on esa eflux and sst eflux so that they do not collide.		Vassilis	2	Jim M	
	(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	Jim M	
	autoscaled. Information on appropriate yranges should come from					
	Vassilis.					
2085e	Change labels on temperature lines so that they are done in		Vassilis	2	Jim M	
20051	different colors (and possibly different linestyles).		\/'''	_	Para A.A	
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		Vassilis	2	Jim M	
	I've done the past modifications of the plot key.					
2086	Orbit Plot on Summary Plot web page - on the right side, 3 plots		Vassilis	2	Jim M	
2000	vertically, each overview plot there would be orbit panels		v accilio		VIIII IVI	
	(coordinate with Harald).					
2087	Administrator's Guide		Vassilis	2	Jim M	
2088	Themis Developers Guide		Vassilis	2	Jim M	
	thm_load_mom: for quantities like velocity, the coordinate system		Vassilis	2	Jim M	
	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.					
2089	Thm_fgm_overviews currently loads the data out of the fit file. It		Vassilis	2	Jim M	
2009	should probably load the data out of the fgm file. Only needs to		v assilis		JIIII IVI	
	load from one data source. Jim M thinks the thm_load_fit can be					
<u></u>	deleted					
	7/31/2009 4:39 PM		6			0090731 - Themis Software Task Priorities Rev A xls

2090	that streamlines the generation of gmag stackplots and a crib to		Vassilis	2	Jim M		
2000	show how to do this. (< than a day)		Vassilis	_	OIIII W		
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: minor nuisance		Vassilis	3	Jim M		
2094	Overview plot change: mode bar seems thick  Mosaic Processing - permanent script needed		Vassilis Vassilis	3	Jim M Jim M	nothing we can do easily	
2095	Wiosaic Processing - permanent script needed		Vassilis	3	JIIII IVI		
	Michael						
2169	LASP code appears to label SPG coords w/ DSL. Investigate and fix.	7/13/2009	John Bonnell	1	Michael	awaiting reply from JB whether to fix or nott (interaction btw 2 cribs	
2170	Port LASP axial calibration to eff datatype -> can we?	7/13/2009	John Bonnell	1	Michael	awaiting reply from JB as to next step	
2100	EFI calibration		John Bonnell	1	Michael		
2100d	DC offset between 4sdo and 2sdo in boom plane		John Bonnell		Michael	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		Michael	On Hold	
2100k	"Case-by-case" calibration parameters ("short-term" high accuracy corrections). LASP does this, but needs integration.		John Bonnell		Michael	On Hold	
2100n1	better define the behavior of THM_LOAD_EFI if multiple coord are specified.		John Bonnell	1	Michael	"Detect argument present for IN_SUFFIX/OUT_SUFFIX for THM_CAL_EFI" to the task list?	.5 hrs
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	Michael		
2101	THM_SPINFIT simulates the on-board spin fits		John Bonnell	2	Michael		
2101a	Check input coord and boom selection (offset is boom dependent) and reflect in TPLOT var name and metadata. Check offsets against C. Cully's example.	Revised 7/13/2009	John Bonnell	2	Michael	in progress	4 hrs
2099	npot computation		Jim	1	Michael		
			McFadden				
2099e 2099f	Integrating Npot code.  Writing a crib to demonstrate how to use the code to remove	7/24/2009 7/24/2009	Toshi Toshi	2	Michael Michael		
20991	penetrating electrons from ESA e- and ion data	1/24/2009	105111	2	Micriaei		
2099a	Formula		Jim McFadden	3	Michael	McFadden has found bugs in the pipeline. I am on hold until he works those out (he is working with Bonnell and Mozer).	
2099c	McFadden requires more information on the bias changes from John as of 6/5		Jim McFadden	3	Michael	J.B. to send Jim McFadden info	
2099d	Integrate Nishamura's Npot routine as an option into THM_SCPOT2DENS		Vassilis	3	Michael	On Hold	
2102	FBK frequencies		John Bonnell	2	Michael		
2102c	Make sure that bin center assignment from L2 works with any changes that Jim M. makes		John Bonnell	2	Michael		
2102d	John wants to calibrate by signal source – thm_cal_fbk		John Bonnell	2	Michael		
2103	EAC offsets		John Bonnell	2	Michael	John has taken AC coupled data -> he will get me the offsets and the switch-over times.	
2104	L2 CDF		John Bonnell	2	Michael	J. B. to talk to Vassilis about expectations for users. Michael to find out what the programming task is.	
2105	EFI Calibration Document		David	2	Michael		
2185	Pat  I tried to use the TADS tool to process the THEMIS data but can not draw plot of the data after load the c gse FGM data. Thank you	7/28/2009	Yonghua Liu	1	Pat		
2162	very much for you provide such a useful tools. talking with Mcfadden this week, as well as doing some of my own	7/2/2009	John B	1	Pat		
	work, it seems that it would be very useful to have THM_LOAD_HSK be able to produce TPLOT variables with housekeeping data in physical (calibrated) units; ie. IEFI_IBIAS in nA instead of RAW TM units. The conversions are straightforward and well-documented, although we should check with the MOC folks to get the latest versions of the calibration parameters.						
2193	Convention notes for Developers	7/31/2009	Pat	1	Pat		1 hr
2113	Many of the data processing routines that are tested here do not inherit the plotting options from the tplot variable that they take as input. For data processing routines that I've written Vassilis has had me modify them so that they inherit these options. It shouldn't be very hard to do this, but whether we do it or not depends on whether we think these data processing routines are useful only for the gui or for the command line user as well. (		Pat	1	Pat	Aaron to generate a list of what's doen and what's not done	8 hrs
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2119	There's a possible bug thm_gen_overplot when an illegal device is set with the DEVICE keyword. The code doesn't check to make sure if the graphics device is valid. It passes the test script because thm_gen_overplot has its own catch error statement embedded in the code. The catch statement does report, "Graphics device not available: a", but only after data have been loaded and tplot vars have been created. If a long time range is requested this could be a significant waste of time to the user.			1	Pat		2 hrs
2118	With a pre-mission and future dates, thm_gen_overplot does not exit gracefully. The user sees a lot of "Remote file not found messages", but is not offered any indication that the date requested is before the mission began. It would also be useful to have a check for when DATE plus DUR is greater than the current date, and then ignore the requested days beyond the current.			1	Pat	same time as 2119	
	I found a graphical bug in gui. If you are plotting a constant value and autoscaling is on, it can create a plot that looks non-constant due to internal numerical error. I've attached an example plots(issue in first panel). The first one is using autoscaling, the second is using a fixed range .002 units wide.	7/29/2009	Pat	1	Pat	(Cindy will QA other plot functions)	2-3 hrs
2190	If I had a plot that I had made range settings to and I added another quantity to the plot, the range settings would be reverted to the defaults.	7/30/2009	Pat	1	Pat		3 hrs
	This is actually a sub-case of a larger problem that we've seen over and over again, specifically, we don't have any idea when a user has modified a setting(versus when the internal code modifies a setting).						
	This is important to know for deciding when to automatically change defaults, and also for things like knowing which settings to copy when the "Set All" flag is checked.						
2037	J. Kissinger's cotrans routine (from GSE to SSE coordinates)		Vassilis	2	Pat	SPICE/ICY lib installed. integration of this data into a separate L2 cdf in progress Create a crib as well.	
1565	I noticed while trying to export an EPS of some FGH that the fan compression algorithm can be very slow. A little while back, I thought of a way to make the algorithm much faster at the expensive of slightly worse compression ratios. I think this could be well worth implementing after this release and I don't think it would take too long.		Pat	2	Pat		
2139	I noticed that when calc performs an operation that reduces the number of dimensions on a tplot variable, it doesn't reduce the number of labels and/or colors, which can cause tplot to issue a warning when a result is plotted.		Pat	2	Pat		
2183	L0->L1 Processing determine start and stop times of particle burst	7/27/2009	Vassilis	2	Pat	in progress	
1121	modes and put into an L1 cdf.  Overview plots - need to figure out how to handle memory issues with tplot variables.		Bryan	2	Pat	discuss with Jim M at 8/3 S/W meeting	
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	
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 1/2009 4:39 PM		Pat 8	3	Pat 20	0990731 - Themis Software Task Priorities	4 hrs Rev A.xls

964	I noticed a bug with the x-grid thickness. For some reason if I use a style like dotted and increase the thickness, the thickness doesn't appear to increase properly for the portion of the grid near the axis itself. This is a pretty minor aesthetic thing, so I don't think it will be a big deal if we put it in the next phase.	Pat	3	Pat		
2063	Problem with edit3dbins is being caused by IDL's mouse system variable not being updated correctly on Macs. The ctime procedure, used to interactively select a time from a tplot window, relies on this variable to determine when a selection has been made in the tplot window. If the variable is never updated then ctime gets caught in an infinite loop. It's unclear whether this is specific to a particular OS version, but the routine should probably be modified at some point to maximize compatibility with Macs. In the meantime the alternate method of calling gettime that I copied you on yesterday should provide a temporary way around this bug.	Aaron	3		verify note in quick reference guide and then task will be closed	
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		originally part of task 64, however, after further evaluation, it was determined this best belonged with the widget tree rather than the analysis window	
1555	A conversation here brought up what should probably be considered a feature. If only minor grids are on, gaps appear in the grid lines, because the grids are not drawn on major ticks. After talking about it, we were thinking a better rule would be to only maintain those gaps if major grids are turned on.	Pat	3	Pat		
	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	