		Date			Assigned		Estimate
Task #	Task Description	Opened	Reported By	Pri	To	Notes	(hrs)
	To be Assigned or Discussed						
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		Bob Strangeway	tbd	tbd		24-32 hrs
	profile so that plots/fonts/colors/sizes/titles/etc will always be set		and other(s)				
1512	to user's choice. Cancel Load process		Bob	tbd	tbd	This is not only a tricky one but it involves	1+ weeks
			Strangeway and other(s)			all the thm_load command line routines. We briefly looked at this before and were not certain how we would go about it. However, just about everyone I've trained or talked with has requested this.	
1061	Add capability for user to control legend options (size,color,font)		Bob Strangeway	tbd	tbd		24-32 hrs
2201	One feature that was never implemented for the mini-language is	8/5/2009	and other(s) Pat	tbd	tbd		4 hrs
2201	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.	5/5/2555	Tu	ibu	isa		11110
2202	Reduce GUI Load time for data sets with large numbers	8/6/2009	Programming	tbd	tbd	Build widget tree so only widgets	24 hrs
	components		Team			(components) that are displayed are added to the tree. Subcomponent widgets will be dynamically added when user requests their display (clicking on '+' sign). This will reduce the time needed for loading data sets with large numbers of components. A time hit will be paid later down the line, if and when the user chooses to display components. Note: This approach will definitely reduce the time required to load, however, the hit later down the line may not be acceptable. We just need to try it and see.	
2203	Improve interface on Plot/Layout Window for spectral vs. linear	8/6/2009	Programming	tbd	tbd	Modify the Plot/Layout panel so that the	4-8 hrs
	data		Team			user doesn't have to remember to switch back and forth from line to spectral mode. This could be done with a simple 'make line' and 'make spectral' button or check box.	
2204	Reduce the number of keystrokes needed to navigate the tree.	8/6/2009	Programming Team	tbd	tbd	Allow expansion of widget tree from keyboard using accelerator keys. Need to check into operating systems for pre-existing keys. An alternative to this would be to automatically open the tree to at least the probe and/or instrument level, possibly even open down to the data/component level for those data sets with only a few components. This is not critical, but very nice for user and would reduce the number of key strokes.	16-24 hrs
2207	I just got a suggestion from a scientist. He said he was used to	8/6/2009	Paul L	tbd	tbd		
2008	level 2 data types have gaps filled or marked, and was surprised that we don't do this. That said, I'm not sure that filling gaps is necessarily a good idea. I think we leave the gaps as they are for good reason, but we might consider posting better warnings to indicate that (1) our data may have time gaps. (2) that an individual data quantity may change cadence mid-time-series.						
2008 2009							
2010							
2011	General						
	Work on acquiring FIT web info		David		David	From Toshi	
	Enhanced SST and MOM Instrument Web Pages		David		Davin	in progress	
	New Server Installation Greenland data total magnetic field is only about 250 nT even if no baseline subtracted (from Harald).		Vassilis Vassilis		Jon L J Weygand	in progress Waiting for student to have time.	
	Move EFI Web Pages from beta to official web site		David		Amanda	After John has verified changes	
2160 2186	ESA Processing Web Page revision I noticed that the Data->Collaboration Tools->(subcategories) fall behind the ARTEMIS graphic.	7/1/2009 7/28/2009	David Michael		Amanda Amanda		
	Calibration - send sample to Vassilis and David Sibeck		Vassilis		Vladimir		
	Link to Plots		Vassilis		Vladimir		

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	Data contain engineering, deployment, maneuver, and science data 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		Vassilis		Vladimir		
	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).						
	Clean-up the power ripples from the FGM data.		Krishan			awaiting programmer	
	Revise the Data Products Web page and send to Amanda		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 data		McFadden		John McDonald		
2033	VMO file generation		David	1	Aaron		
2033a	One variable change to ASI files and possibly the whole repository		David	1	Aaron	changes sent to Jan	
2033b	SCM and EFI L2 variables		David	1	Aaron		
	L2 STATE (?)		David	1	Aaron		
	Harald						
	Keograms being updated.					Current status ASK through October 5	
						2008. Restart Process	
	The THEMIS movies are now up to date and finished through the end of April. There will be a -4 days delay because we wait with						
	the mosaic generation until that all the station data have been transmitted						
	Mosaic reprocessing post-February 2008 (Full Resolution).					Process full resolution for March 1-15	
	Overview plots for web site done though 6/30/2009.					2008, Jan 15 2009 and onward. (Jim M)	
	CDF file up to date through 6/30/2009. During the tail season I kept						
	these up to date every 10 days. Now I planned to keep up with this						
	task only once a month somewhere around the 10th of the following month.						
	Summary Plots through March 2008.					replacement with full resolution data in the	
	LO ACLASEA					future	
	L2 ASI cdf's When L2 ASI available Quality Flags and History Status?						
	i i i i i i i i i i i i i i i i i i i						
	Tim						
2184	Test V03 State Automation	7/27/2009				with Jim L 8/3-8/7	
		1/21/2009	Jim L	1	Tim	With Gill E 0/0 0/1	
2069	Support Mirror Sites	1/21/2009	Vassilis	1	Tim	With offine Coloron	
2069 2069a		112112009				Will diff E 0/0 0/7	
2069	Support Mirror Sites Japan (ISAS)	772772009	Vassilis Vassilis	1	Tim Tim	(Rumi - not always up to date for gmags)	
2069 2069a 2069b	Support Mirror Sites Japan (ISAS) Austria	112112009	Vassilis Vassilis Vassilis	1 1 1	Tim Tim Tim Tim Tim	(Rumi - not always up to date for gmags) UCB sent 08T UCLA loaded 06T. Four bricks sent to UCLA - UCLA must reconfigure server first. UCLA will need	
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2069 2069a 2069b 2069c 2069d	Support Mirror Sites Japan (ISAS) Austria France UCLA – mirror site set-up Support gmag data remote sites	112112003	Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis	1 1 1	Tim Tim Tim Tim Tim	(Rumi - not always up to date for gmags) UCB sent 08T UCLA loaded 06T. Four bricks sent to UCLA - UCLA must reconfigure server first. UCLA will need	
2069 2069a 2069b 2069c 2069d	Support Mirror Sites Japan (ISAS) Austria France UCLA – mirror site set-up	77272505	Vassilis Vassilis Vassilis Vassilis Vassilis	1 1 1 1 1	Tim Tim Tim Tim Tim Tim Tim	(Rumi - not always up to date for gmags) 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	
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2069 2069a 2069b 2069c 2069d 2070 2070a 2070b	Support Mirror Sites Japan (ISAS) Austria France UCLA – mirror site set-up Support gmag data remote sites Augsburg (MACC's) Alberta Greenland	77272003	Vassilis	1 1 1 1 1 1 1 1	Tim	(Rumi - not always up to date for gmags) 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 gmag attributes - reprocess with fix - On Hold for IT	
2069 2069a 2069b 2069c 2069d 2070 2070a 2070b	Support Mirror Sites Japan (ISAS) Austria France UCLA – mirror site set-up Support gmag data remote sites Augsburg (MACC's) Alberta	77272503	Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis	1 1 1 1 1 1 1 1	Tim Tim Tim Tim Tim Tim Tim Tim	(Rumi - not always up to date for gmags) 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 gmag attributes - reprocess with fix - On	
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2020	If requesting 1 hour of data using timespan, then load data using one of our load data routines.		Vassilis	1	Bryan		
2020a	If requesting 1 hour of data using timespan, then load data using one of our load data routines: All except EFI and SCM		Vassilis	1	Bryan	eta 8/7	
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		
2178	thm_load_goes_mag - put attributes where other TDAS software expects them	7/22/2009	Jonathan Rae, Jim L	1	Bryan	eta 8/7	3-4 hrs
2200 2122	GUI is veeeeery sloooooow loading ASK data THM_LOAD_MOM doesn't recognize the datatype keyword for L1	8/4/2009	Harald	1	Bryan Bryan		
2013	data. (It does for L2). Think about making 2D slices through distribution. See medical imaging code in IDL demo."		Vassilis	2	Bryan		
2013d	Add new slice features (plane orientation, time window, etc.) to slice code		Vassilis	2	Bryan	eta 8/10	
2013e	Modularize plotting related code		Vassilis	2	Bryan		
	Rewrite crib		Vassilis	2	Bryan		
	Integrate into gui		Vassilis	2	Bryan		
	2D with med imaging code		Vassilis	2	Bryan		
	3D slices		Vassilis	2	Bryan		
	thm_load_state 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 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		
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	NO_DOWNLOAD keyword missing from thm_load_fbk.			2	Bryan		4 hrs
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 2141 and 2135	
2028	Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi, _gmaq, _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, 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		Hannes Hannes Hannes	3 3	Bryan Bryan Bryan		
	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.						

1	If one loads fgm data from probe 'a' and let's say there are no data		Hannes	3			
	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.				Bryan		
	upgrade thm_load to work with probe assignments		Vassilis	3	Bryan		
	move functionality of thm_load_state2 into thm_load_state and		Vassilis	3	Bryan		
(delete thm_load_state2		vassiiis		Diyan		
1	Multiple enhancements concerning keywords, valid_names and thm_load routines		Vassilis	3	Bryan		
	Cindy						
2195	When I print a plot with the landscape mode turned on, the plot is	8/3/2009	Pat	1	Cindy	Sort out	
3	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				,		
1	Bob Strangeway GUI Review	8/3/2009	David	1	Cindy		
	Rename thm_gui_new to thm_gui	8/3/2009	David	2	Cindy	0.0 11 1.11 11 11 11 11 11 11	0.01
i I	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	2	Cindy	QA other plot functions after Pat is done	2-3 hrs
	section in the user's guide on optimizing workflow and retrieving default values. Additional comments in tplot_gui, calculate, and save document sections	8/6/2009	Cindy	2	Cindy		1 hr
	add Pat's scripts into training scenario	8/6/2009	Cindy	2	Cindy		1 hr
2181	Jim L APID Compression on Probe A did not work - monitor telemetry	7/24/2009	Ops	1	Jim L	only probe 'b' left to verify	
2130	FGM offset study/debug for European Folks		Vassilis	1	Jim L	Offset Data - more analysis in progress (see J Bonnell)	
	V03-L2 cdf STATE		Vassilis	1	Jim L		
	writing some code to fill in the position and velocity variables for GSE and GSM coordinates.		Vassilis	1	Jim L		
				, ,			
1	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 programmers.	
	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		
	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.	
	Edit the master state CDF to add variables for the spin axis RA and Dec corrections	8/4/2009	Vassilis Jim L	1	Jim L		
	Tweak the V02->V03 server-side processing code to store the original RA/DEC values, and the RA and Dec corrections, instead of applying the corrections and storing only the updated values	8/4/2009	Vassilis Jim L	1	Jim L	in progress	1 hr
1	Manually reprocess the V00, V01, V02, and V03 state CDFs for the whole mission into QA again, using the new master CDF.	8/4/2009	Vassilis Jim L	1	Jim L	waiting for Tim	2-3 hrs
	Spot check a few of the reprocessed V00, V01, V02, V03 state CDFs to verify that they're consistent with what's currently in production	8/4/2009	Vassilis Jim L	1	Jim L	2034i is prerequisite	1 hr
	Complete task 2184 (Tim and I validate the automated processing)	8/4/2009	Vassilis Jim L	1	Jim L	J	1 hr
	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						
1	only adding new variables, not taking anything away.						
Note	Once the reprocessed CDFs are in place, we'll want to make the following changes in TDAS:						

2034m	For the spin phase corrections, the default in the spinmodel routines should be to *not* apply them unless requested by keyword. Right now, the default is to use them, and specify a keyword to turn off the corrections, so this ought to be reversed	8/4/2009	Vassilis Jim L	1	Jim L		1 hr
2034n	Add appropriate keyword argument(s) to any low-level cotrans routines that use the spin axis RA/DEC (probably only affects the DSL<->GEI transform), and make sure thm_cotrans can accept the new arguments and pass them to the lower level routine. Implement the necessary corrections inside the low-level cotrans routine when the "use correction" keyword is specified.	8/4/2009	Vassilis Jim L	1	Jim L		1+ days
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		
	Packet lookahead in L0->L1 processing (Bugz #67)		FGM Team	1	Jim L		16
2149b	Apply despike algorithm to current packet if next packet has different range (Bugz #44)		FGM Team	1	Jim L		16
2149c	When a and b are coded and tested, build new tmtools release and start using it for automated processing.		FGM Team	1	Jim L		8
2149d	Reprocess all L1 FGM data (which should trigger L2 FGM reprocessing as well) will run for several days, should probably wait until "new justice" is operating reliably)		FGM Team	1	Jim L	Set-up only, then goes to Tim or Jim M	1
2035	Split L1 ESA (using Thomas's routine) in master ESA data cdf		Vassilis	2	Jim L	On Hold - awaiting Jim McFadden release: Then send David Sub Task List; Calibration variables removed from L1 data master CDF. (Side note: found and reported a bug in SKTEditor, which the Goddard team has agreed to fix) Waiting for feedback from Jim McFadden about how calibration data should be handled (TH-A ASCII calibration file (used for all probes) doesn't match anything I removed from the data CDF).	
2076	SM coord transformation in thm_cotrans does not work: fixing that would be too drastic a change for a patch release, because it might break a lot of existing code. The issue is: if the in_coord parameter is not explicitly specified, and the dlimits structure also does not specify the coordinate system, do we want to try to figure it out from the "in_suffix" argument (current behavior, doesn't work for SM coords), or just fail with a message that a coordinate system must be specified with either the in_coord argument or dlimit structure (probably a better solution, but might break existing code).		Vassilis	2	Jim L	Issue Warning and not to let it fail. Clarification Needed	
1563	We were just griping about how long the Overview plots take to load, and I was thinking, what if the Overview Plot window, had a list of check boxes that would enable the user to turn off certain plots? That way if they don't care about the AE index plot, they could turn it off and speed up the load of the rest of overview plots. Here's some more food for thought: didn't we recently discuss the possibility of making an AE index CDF, and let the users download that instead of downloading all the data necessary to recalculate it client-side? Another candidate for that sort of treatment might be the time intervals for slow survey, fast survey, particle burst, and wave burst that's another calculation that requires a large volume of data to be downloaded to produce a tiny product, but only a trivial amount of extra work if it's done on the server side.		Bryan/JimL	2	Jim L	Separate L1	
2147	FGM spin harmonics correction (remove interference from solar array currents). David Fisher has produced several tables (each table valid for a few months; correction varies with sun angle) of FGM correction vs. spin phase		FGM Team	2	Jim L and/or Hannes		
2147a	Decide on how to represent tables for use in thm_cal_fgm (keep as ASCII? convert to CDF?), get full set of corrections, convert to the desired format, install somewhere under /disks/themisdata (probably alongside FGM cal files?)		FGM Team	2	Jim L and/or Hannes		16
2147b	Add a step to thm_cal_fgm to load the appropriate correction tables for the probe & time interval being processed, use spin phase at each sample and interpolate within table to find correction at that point, apply correction. There should be a way to disable this correction (e.g. /NO_HAMONIC_CORRECTION keyword or similar, since David F. will need to periodically create new tables from the uncorrected data as data continues to accumulate).		FGM Team	2	Jim L and/or Hannes		40
2147c	Reprocess L2 FGM products with enhanced code		FGM Team	2	Jim M or Tim	It might make sense to delay 2147c and 2148b L2 reprocessing until the 2149d L1 reprocessing is performed.	

2148	ADC non-linearity correction: This was proposed as a correction to (i.e. reprocessing) the L1 FGM CDFs, but I think it really belongs in thm_cal_fgm as the very first step. There are jumps in the X, Y, and Z components of the FGM data when the field increases or decreases past some thresholds. Dragos Constantinescu has sent some IDL code to implement the correction, but today I'm told that this code doesn't work that well, and Dragos will be rewriting it to reflect that the size of the jump depends strongly on the rate of change as well as the threshold value.		FGM Team	2	Jim L and/or Hannes		
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		
2038	STATE Web Page (s)		Vassilis	2	Jim L	review web pages	
2039	bad timing sun pulse times (early January 2009) L1 Data Processing History Info: SCM, EFI, STATE		Vassilis Vassilis	2	Jim L Jim L	Clarification needed	
2042	FGM range changes in the mid packet. Post Proc maybe a solution to eliminate the spike. BugzID=44. Bfield mid-packet jumps.		Vassilis	2	Jim L		
2043	Refactor repeated CDF library code in CDF processing tools		Vassilis	2	Jim L		
2046	BugZid=50 Create a more efficient & productive prototype QA Instrument		Vassilis	2	Jim L		
2040	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	JIIII L		
2047	Separate E and B timestamps for spin fits: a) make a revised V02 master CDF with E and B separated b) change thm_load_fit to support V01 and V02 of the L1 CDFs c) change the L0->L1 processing code d) change the L1->L2 processing code e) test the changes, then reprocess to create the V02 CDFs (keeping the V01 files around for a while to ease the transition) BugzID=45		Vassilis	2	Jim L		
2047a	FGS sample times and values, showing repeated timestamps. BugzID=113 (BugzID=67 must be done first)		Vassilis	2	Jim L		
2047b	Repeated timestamps and gaps in spin fit data BugZid=113 (#67		Vassilis	2	Jim L		
2077	may fix this one as well). Non Monotonic timestamps. BugzID=72		Vassilis	2	Jim L		
2078	bau_sunpulse_met assumes x86 endiannes (BugzID=13)		Vassilis	2	Jim L		
2080	Phantom packets" cause non-monotonic distribution times. BugzID=25, low priority.		Vassilis	3	Jim L		
2081	Evaluate CDF compression algorithms BugZid=81		Vassilis	3	Jim L		
2083	Add "last processed" time to L1 (and L2?) CDFs BugZid=115		Vassilis	3	Jim L		
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,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		Christine	3	Jim L		
	Jim M						
2198	I'm trying to use the TWAVPOL routine to do a polarization analysis. However, I don't believe I am getting the results I should. Specifically, I am analyzing a wave that has a spectral component around 6 mHz. However, my \ower spectrum plots of the data show a component between 20 and 30 mHz.		Nathaniel Frissell	1	Jim M		
2192	AE Index - quality control check plots for traces without gaps was testing some data using future dates and found something 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.	8/3/2009 7/31/2009	Vassilis Pat	1	Jim M Jim M	in progress	
2048	Process full resolution for March 1-15 2008, Jan 15 2009 and onward.		Vassilis	1	Jim M	on March 11, 2008. Process restarted	
2049 2050	MOM Quality Flags and MOM Processing History Incorrect adjustment on S/C potential. Effects L2 cdfs. Fix in thm_load_mom		Vassilis Vassilis	1	Jim M Jim M	Code complete - reprocessing needed	

2951	New ESA Quality flag for Jim McFadden	Jim	1	Jim M	In testing with SPDF. Then reprocess.
	, ,	McFadden			
2052	Add quality flag verbiage to ESA and MOM Data Description web	David	1	Jim M	
2053	page. Revise ESA and MOM Processing History Web Page	David	1	Jim M	Awaiting new reprocessing completion
2054	Issue with ESA data and Overview Plots. Pgm Change and	24114	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
					load TH-B 2009-02-17 23:50:38
					load TH-C 2009-02-17 23:30:38
					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></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 179)="" \utilities\thm="" dproc.pro(="" new="" ui=""> CALL DPROC</c:\gui\themis_gui\themis\thm_ui_new>				
	<c:\gui\themis_gui\themis\thm_ui_new\utilities\thm_ui_new_dp< p=""></c:\gui\themis_gui\themis\thm_ui_new\utilities\thm_ui_new_dp<>				
	roc.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></c:\gui\themis_gui\themis\thm_ui_new\objects\thm_ui_loaded_<>				
	data_dproc.pro(104)> ERROR_MESSAGE				
	<c:\gui\themis_gui\themis\thm_ui_new\utilities\error_message. pro(256)> Last IDL Error: Unable to concatenate variables</c:\gui\themis_gui\themis\thm_ui_new\utilities\error_message. 				
	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 reprocess ESA	Vassilis	2	Jim M	On Hold; awaiting Jim L to split L1 into 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	
	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	
2000	be Done: SST, FGM, FBK, FFT, FIT	Vassilis	_	OIIII IVI	
2060	L2 cdf Quality Flags: for SST	Vassilis	2	Jim M	
2175	L2 File Definitions Document - awaiting L1 document to be	David	2	Jim M	
0004	completed to use as template.	.		11. 8.4	
2061 2062	Data Description Paragraphs Alberta - At the moment the data files are from Dawson (daws),	David Vassilis	2	Jim M Jim M	
2002	Churchill (fchu), Island Lake (isll) and Fort McMurray (mcmu). I will	vassiiis		JIIII WI	
	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				
	able to retrieve from Alberta				
	Summary Plot mods	Vassilis	2	Jim M	
2085a	Fix duplicate velocity units by removing 'km/s' from ytitle and maintaining 'km/s' in ysubtitle	Vassilis	2	Jim M	
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	. 200.110	-	3 141	
	distinguish.	 		<u></u>	
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	
2000U	autoscaled. Information on appropriate yranges should come from	v assills		JIIII IVI	
	Vassilis.				
2085e	Change labels on temperature lines so that they are done in	Vassilis	2	Jim M	
	different colors (and possibly different linestyles).				
2085f	If necessary, Update the plot key so that it reflects any of the	Vassilis	2	Jim M	
	changes above. It'd probably be best to give this task to me, since I've done the past modifications of the plot key.				
2000	i i i	Vaccilia	2	lim M	
2086	Orbit Plot on Summary Plot web page - on the right side, 3 plots vertically, each overview plot there would be orbit panels	Vassilis	2	Jim M	
	(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		1		
	place we normally try to store them (from Pat - Vassilis concurs) Will take a look.				

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 2090 that streamlines the generation of gmag stackplots and a crib to show how to do this. (c than a day) 2091 Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdfs - entire mission 2092 thm_load_mom changes - reconcile mods with Davin at an appropriate time. 2093 AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes-Vassilis: minor nuisance 2094 Overview plot change: mode bar seems thick 2095 Mosaic Processing - permanent script needed 2169 LASP code appears to label SPG coords w/ DSL. Investigate and fix. 2170 Port LASP axial calibration to eff datatype -> can we? 2100 EFI calibration 2100 DC offset between 4sdo and 2sdo in boom plane 2100 Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). 2100 Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). 2100 Modify THM_CAL_FIT to treat efs datatype - Install E12/E34 2100 Modify THM_CAL_FIT to treat efs datatype - Install E12/E34 2100 Modify THM_CAL_FIT to treat efs datatype - Install E12/E34 2100 Modify THM_CAL_FIT to treat efs datatype - Install E12/E34 2100 Modify THM_CAL_FIT to treat efs datatype - Install E12/E34 2100 John Bonnell John Bonnell John Bonnell John Bonnell Michael	t step
that streamlines the generation of gmag stackplots and a crib to show how to do this. (< than a day) 2091 Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdfs - entire mission 2092 thm_load_mom changes - reconcile mods with Davin at an appropriate time. 2093 thm_load_mom changes - reconcile mods with Davin at an appropriate time. 2094 Vassilis: minor nuisance 2095 Mosaic Processing - permanent script needed 2096 Mosaic Processing - permanent script needed 2097 LASP code appears to label SPG coords w/ DSL. Investigate and fix. 2170 Port LASP axial calibration to eff datatype -> can we? 2100 EFI calibration 2100 Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). 2100 Case-by-case* calibration parameters ("short-term" high accuracy corrections). LASP does this, but needs integration. 2100 better define the behavior of THM_LOAD_EFI if multiple coord are specified.	t step
2091 Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission	t step
thm_load_mom changes - reconcile mods with Davin at an appropriate time. 2093 AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes-Vassilis: minor nuisance 2094 Overview plot change: mode bar seems thick 2095 Mosaic Processing - permanent script needed 2169 LASP code appears to label SPG coords w/ DSL. Investigate and fix. 2170 Port LASP axial calibration to eff datatype -> can we? 2100 EFI calibration 2100d DC offset between 4sdo and 2sdo in boom plane 2100h Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). 2100k Case-by-case* calibration parameters ("short-term" high accuracy corrections). LASP does this, but needs integration. 2100n better define the behavior of THM_LOAD_EFI if multiple coord are specified.	t step
2093 AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: minor nuisance 2094 Overview plot change: mode bar seems thick 2095 Mosaic Processing - permanent script needed 2096 Mosaic Processing - permanent script needed 2169 LASP code appears to label SPG coords w/ DSL. Investigate and fix. 2170 Port LASP axial calibration to eff datatype -> can we? 2100 EFI calibration DC offset between 4sdo and 2sdo in boom plane 2100h Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). 2100h "Case-by-case" calibration parameters ("short-term" high accuracy corrections). LASP does this, but needs integration. 21001 Detter define the behavior of THM_LOAD_EFI if multiple coord are specified.	t step
2094 Overview plot change: mode bar seems thick Vassilis 3 Jim M nothing we can do easily	t step
Mosaic Processing - permanent script needed Vassilis 3 Jim M	t step
Michael 2169 LASP code appears to label SPG coords w/ DSL. Investigate and fix. 2170 Port LASP axial calibration to eff datatype -> can we? 2170 EFI calibration DC offset between 4sdo and 2sdo in boom plane 2100h Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). 2100k "Case-by-case" calibration parameters ("short-term" high accuracy corrections). LASP does this, but needs integration. Michael Michael awaiting reply from JB whether to not (interaction btw 2 cribs awaiting reply from JB whether to not (interaction between 4 sold awaiting reply from JB whether to not (interaction by 2 awaiting reply fro	t step
2169 LASP code appears to label SPG coords w/ DSL. Investigate and fix. 2170 Port LASP axial calibration to eff datatype -> can we? 2100 EFI calibration 2100d DC offset between 4sdo and 2sdo in boom plane 2100h Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). 2100k "Case-by-case" calibration parameters ("short-term" high accuracy corrections). LASP does this, but needs integration. 2100n better define the behavior of THM_LOAD_EFI if multiple coord are specified.	t step
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2100 EFI calibration John Bonnell 1 Michael Which is better? Assigned to J. E 2100h Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). 2100k "Case-by-case" calibration parameters ("short-term" high accuracy corrections). LASP does this, but needs integration. 2100nl better define the behavior of THM_LOAD_EFI if multiple coord are specified. John Bonnell 1 Michael Michael On Hold On Hold Michael On Hold	
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2100k "Case-by-case" calibration parameters ("short-term" high accuracy corrections). LASP does this, but needs integration. 2100n1 better define the behavior of THM_LOAD_EFI if multiple coord are specified. John Bonnell 2 Michael On Hold Michael 1 Michael	
2100n1 better define the behavior of THM_LOAD_EFI if multiple coord are specified. 1 Michael specified.	
specified.	
2100n Modify THM CAL FIT to treat efs datatyne - Install F12/F34 John Ronnell 3 Michael	
LIZIUID IMOGIIV LEM CALELL to treat ets datatyne - Install E12/E34	
conditional based on th?_fit_code TPLOT variable. If E12 switched	
to E34 software needs to be revised to handle	
2101 THM_SPINFIT simulates the on-board spin fits John Bonnell 2 Michael	- 4.
2101a Check input coord and boom selection (offset is boom dependent) and reflect in TPLO var name and metadata. Check offsets 7/13/2009 Michael in progress	4 hrs
against C. Cully's example. 2101d SPINFIT that induces a crash at a particular time (unfortunately on 8/5/2009 Michael 2 Michael	2 hrs
2101d SPINFIT that induces a crash at a particular time (unfortunately on a day of interest). At the moment, I suspect that the data is unusual	21115
somehow, but probably not bad	
2099 npot computation Jim 1 Michael McFadden	
2099e Integrating Npot code. 7/24/2009 Toshi 2 Michael	
2099f Writing a crib to demonstrate how to use the code to remove 7/24/2009 Toshi 2 Michael	
penetrating electrons from ESA e- and ion data	
2099a Formula Jim 3 Michael McFadden has found bugs in the	nineline
McFadden I am on hold until he works those is working with Bonnell and Moze	e out (he
2099c McFadden requires more information on the bias changes from John as of 6/5 Jan McFadden McFadden McFadden McFadden J.B. to send Jim McFadden info	
2099d Integrate Nishamura's Npot routine as an option into Vassilis 3 Michael add to thm_fitgmom_overviews -	first ask
THM_SCPOT2DENS Jim McFadden if okay, then represent the properties of the propertie	
2102 FBK frequencies John Bonnell 2 Michael	
2102c Make sure that bin center assignment from L2 works with any changes that Jim M. makes	
2102d John wants to calibrate by signal source – thm_cal_fbk 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	
2104 L2 CDF John Bonnell 2 Michael J. B. to talk to Vassilis about exp	ectations
for users. Michael to find out wh programming task is.	
2105 EFI Calibration Document David 2 Michael	
Pat 2103 Convention notes for Developors 7/31/2000 Pat 1 Pat	
2193 Convention notes for Developers 7/31/2009 Pat 1 Pat 2113 Many of the data processing routines that are tested here do not	mon so O bro
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. (
2119 There's a possible bug thm_gen_overplot when an illegal device is 1 Pat	

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		1	Pat	same time as 2119	
2189	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. 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.	7/29/2009	Pat Pat	1	Pat Pat	(Cindy will QA other plot functions)	2-3 hrs 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.						
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.		Pat	1	Pat	Discuss at S/W Meeting 8/10	1 hr
2188	The current GUI allows fixed ranges on the interval (0,inf) for 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.	7/29/2009	Pat	1	Pat		4-8 hrs
	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)						
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.	
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	in progress	
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	Pat	3	Pat		4 hrs
	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					
2063	Problem with edit3dbins is being caused by IDL's mouse system	Aaron	3	Pat	verify note in quick reference guide and	
	variable not being updated correctly on Macs. The ctime				then task will be closed	
	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.					
	jou on your ady one and provide a temperary may around time bug.					
2106	Add the ability to right-click on a variable in the widget-tree and	Pat	3	Pat	originally part of task 64, however, after	
	display a popup with basic information about the quantity such as				further evaluation, it was determined this	
	dimensions, range, or other meta data as well as the ability to				best belonged with the widget tree rather	
	rename variable				than the analysis window	
	Misc					
447	Save THEMIS document: Attempting to save to a read only file in		1		IDL Error report to ITT	
	Windows outputs the correct error message, but IDL crashes					
	immediately afterwards.					