Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate (hrs)
	To be Assigned or Discussed						
	One of Michael Hartinger (a grad student in atmos) is having trouble with thm_part_getspec when the SST is in fast survey mode. The routine can take a very long time to run because of the higher resolution. I think we should put a feature request on the list to automatically downsample the particle data in time. Normally, I would suggest that uses downsample using one of our interpolation routines, but because the particle data is stored in a special common block, there is no easy way for end users to perform this operation.	4/6/2010	Michael Hartinger / Pat	?	Pat	Michael supplied code for thm_part_moments	
	When you do a coordinate transform on data, the variable name is updated, but the y-axis label for the variable stays the same. I'm not sure if picking apart the labels to search for coordinate systems is a business that we want to get into, but as it is a common outcome is to generate data whose default labels are incorrect.	4/14/2010	Pat	?	?	Found during QA Testing	
	there's no option in the GUI to load L1 raw data for any of the THEMIS data types it always tries to calibrate if you load any L1 variables. We could add a checkbox or 2-item dropdown list ('L1 type=raw', 'L1 type=calibrated') to that panel, and have it default to 'calibrated', then make sure the appropriate keyword gets passed to the load routine, depending on which option is selected.	4/15/2010	Jim L	?	?	For discussion	
	A grad student brought my attention to some missing on-board moment plots for September/October 2007, THEMIS A (See September 23) I ran the routine to generate the plots on my computer and it worked fine so I think that the plots are missing because either #1 The data arrived late or #2 The script to generate the plots had bug that was subsequently fixed. I think we may just want to reprocess the space based moments for that time.	4/15/2010	Pat	?	?	ESA had bad packets around that time	
	L1 FFT's - split into different data sources	4/15/2010	Jim L	?	?	SPDF has issue creating plots on the L1 data with their software	
4040	Spinfits - separate E&B timestamps?	4/15/2010	Jim L	?	?	SPDF has issue creating plots on the L1 data with their software	
4042	Script to run every two weeks to runs IDL TDAS and checks if a file can be loaded from THEMIS SPDF file (s)	4/19/2010	Pat	?	?	Do we want to do?	
	either thm_load_fit or the GUI code that calls thm_load_fit should split the data into separate tplot variables for E and B, before importing them into the GUI data model. I think thm_load_fft already does something like this.	4/23/2010	Pat	?	?	Jim M 4/23: thm_load_fit also splits into efit and bfit variables, so unless you need to look at raw bytes, the 'fit' datatype is not needed. Pat: Agreed. Short term, excluding the data type from the GUI seems like an easy solution.	
	I found an even crazier one, and I'm pretty sure this is new. If I load data from gui with the following options: "EFI", Probe: "A', L2:" It creates two tplot variable names, both with the name "(both named empty string). After this pretty much everything breaks.(Command line or GUI). I thing this is due to problem with thm_load_efi on the command line. Specifically: timespan, '2007-03-23' thm_load_efi,probe='a',datatype='*',level=2 Crashes with: % Attempt to subscript DATA_QUANTS (TPLOT_COM1) with <long(-1)=""> is out of range. Sneak into v5.21 or just wait for v5.3.</long(>	4/23/2010	Pat	?	Jim M	Jim M 4/23: There is no EFI L2 data, so THM_LOAD_EFI won't work. The new program THM_LOAD_EFI_L2 handles missing files gracefully, and can be committed anytime. I've been waiting for L2 EFI data, but will commit now. I was wrong, the *new* version of THM_LOAD_EFI_L2 handles this gracefully, and was just committed. Anyway we don't need to patch anything, but we'll probably want a minor release when EFI L2 comes online (also true for SCM L2's) Pat: The option exists in the GUI to load the _dot0 quantities from the EFI. If the user tries to do that it creates multiple tplot variables with names that are the empty string. Most TDAS routines that use tplot variables don't work after that point because of the assumptions that they make.	
	Vassilis asked me to email you about adding a task to add 4 magnetometers(Pl: Martin Connors) to our data archives so that their data can be accessed via TDAS.(CL & GUI) The files are already in the RMD format, which is the raw format of our other ground magnetometer data. The task would involve small modifications to our existing scripts to accommodate periodic rsyncs to this new location, and a one time retrieval of past archives from the new location. To accomplish this task we'll require a delivery from Martin of either master cdfs or a text file with appropriate meta-data for these sites, and that they add our a public key that we provide to their list of authorized ssh keys on their archive server. The new gmags abbreviations are: LARG,LETH,ROTH, & REDR.	4/27/2010	Vassilis	?	Pat		
4051b	The new gmags abbreviations are: LARG,LETH,ROTH, & REDR.	4/27/2010	Vassilis	?	Jim M		
	Martin informed us that he should be listed in the acknowledgments for the INUV(Inuvik), somehow his magnetometer got mixed in with the THEMIS gmags as UCalgary. As in the previous task, Martin will deliver new meta data as an amended master cdf or text file. Then we will need to reprocess the Inuvik data using the new master so that it reflects the correct attribution.	4/27/2010	Vassilis	?	Pat		
4057 4058							
4059							
4060							
	I noticed that the Data->Collaboration Tools->(subcategories) fall	7/28/2009	Michael	2	Amanda	Run Compatiability View in Internet Explorer	
	behind the ARTEMIS graphic. Complete Charts in UCLA and UCB rollups	2/1/2010	David	1	David		
4000	Each Month - Tips dujour Document: Developers Guide	3/22/2010 3/5/2010	David David	2 2	David Team	STATE cdf Desc doc first - developed by Jim L	
4001	Document: Administrators Guide Incorporate electron calibration into data	3/5/2010 10/25/2009	David Vassilis	2	Team		

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	Enhanced SST and MOM Instrument Web Pages		David		Davin		
2103	EAC offsets	8/1/2009	John	2	John B	John has taken AC coupled data -> he will get me the	
			Bonnell			offsets and the switch-over times. (eta: 5/14/10)	
	one outstanding issue with THM_LOAD/THM_CAL_EFI is that for some reason when I ask for the calibrated data in SPG (which should just be adjustment of gains and offsets, and conversion from ADC units to physical units, the code is trying to do some despin operations. Since this has direct impact on my ability to evaluate the EFI data quality,	9/3/2009	John Bonnell	1	John B	John to review Jim's fix, eta 4/30	
	Fix the sign reversal of e34.	8/13/2009	Michael	tbd	John B	eta 5/7	
2225	L2 EFI cdf (quality flags)	8/31/2004	Vassilis	1	John B	Jim M to create master cdf with few new variables. John to look at data and describe the criteria for the quality flags. (eta 5/7)	
	Harald						
	ASI software - running fine as of 12 April 2010, L1's and mosaics are up-to-date.				Harald		
	Thumbnail Data:				Harald	Updates ready 7-10th of the next month	
	- cdf files done until March 31, 2010						
	- overview plots done until March 31, 2010 - movies done until March 31, 2010				-		
	- movies done until ilitarch 31, 2010						
	Full-resolution raw data:				Harald		
	- complete for 2007 and 2008 - reasonably complete until mid Nov-2009				 		
	reasonably complete until mid 1404-2003						
	Full resolution data:				Harald		
	- data cdf done for all 2007 and 2008 and mid Nov-2009						
	- keogram cdf done for 2007 and 2008 and until mid Nov-2009						
	Web site mosaics and movies: - Mosaics and movies reprocessed for 2007/2008 and 2008/2009						
	seasons						
	- Mosaics and movies up to date until March 31, 2010						
	Web site overview plots with full resolution data: - overview plots done for 2007 and 2008 and until mid-November						
	2009						
2069d	UCLA – mirror site set-up		Vassilis	1	Harald	UCB has sent 4 bricks to UCLA. After brick transfer UCLA will need to supply SSH key - RSYNC Key.	
4018	Hannes New Calibration FGM parameters and spin axis offsets	3/22/2010	Hannes	1	Hannes		
	Attitude Determination changed based on spin tone removals?	10/19/2009	Hannes	1	Hannes		
4034b	Ferdinand sent was an attempt on his part to automate the shadow processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it up with him once you have gone through it.	4/14/2010	Vassilis	?	Hannes		
2074c	quality flag for FGM data		Vassilis	2	Hannes	on hold	
2082a	Spin modeling during shadows BugZid=43		Vassilis	2	Hannes	Jim L to write routine. Hannes send info.	
2013	Aaron 2-D, 3-D slices enhancements						
2013h		11/13/2009	Vassilis	1	Aaron		
	2D slices - speed-up technique	4/23/2010	Aaron	1	Aaron		
2013j	Plotting Enhancements: Contour lines, set/display range limits, z-axis labels, color table					in progress	2 days
2013k	Interpolation/Slice Creation: Should interpolate and create slice						2-4 days
	using same method as old code (e.g. no gaps or sharp edges)						
20131	Other Distributions: Allow for plots using counts, phase space density, etc (including current dist. options) *(Later) Transform between distribution types w/o re-creating slices						2 days
2013m	Bulk Velocity: Load calibrated lvl2 data, leave 'auto' option but rename						1 day
2013n	More plotting enhancements: Ticks, annotation format, other plotting options from gui					Estimate depends on how many options are still needed, will probably meet with vassilis again before starting	1-3 days
20130	New Rotation: add BX, BY, BZ options					y	1 day
	*(Later) Transform between distribution types w/o re-creating slices					do before 3-d slices tasks?	· aay
2013q	Create our own version of slicer3.pro that can take user input to setup colors, orientation, etc. when it's called.		Vassilis	1	Aaron		
2013r	Integrate our own slicer3.pro gui with regular 2-D slice plots.		Vassilis	1	Aaron		
20139	User's Guide write-up and then review with Xuzhi	-	David	1	Aaron		
	33. QA: GUI panel options only updates panel titles on startup.	1/15/2010	Aaron	1	Aaron		
3046	Fix labels/change coords for on-board moment velocity plots. Data is	1/25/2010	Vassilis /	1	Aaron		
3014	DSL, label says GSM We don't have support for filled symbols. This means symbols are	12/11/2009	Miyashita Pat	2	Aaron		1 day
	There is no way to control the variable font size from the variable panel. There was a barrier to adding features to the variable panel when this came up before, in terms of a design that was too complex to modify reliably. When I fixed some previous bugs in this panel I simplified the code considerably. I now think that adding this feature is feasible.	12/11/2009	Pat	2	Aaron		1/2 day
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3031	GUI Overview plots sometimes have diamond shaped artifacts in the	1/5/2010	Vassilis	2	Aaron	This is a side-effect of the a way that symbols are used	

3001	I'm getting a crash in the calculate window after I delete the text in the program area and then click on a data quantity from the tree. The	12/7/2009	Aaron	2	Aaron	found during EFI testing	
	error message is below.						
3079	110. GUI spinner widget, inconsistencies between actual and displayed value for very small numbers	2/12/2010	Pat	2	Aaron	Support exponential notation for very small values	
3079a	Spinner Part	2/12/2010	Pat	2	Aaron		4-5 hrs
	FormatAnnotation Part	2/12/2010	Pat	2	Aaron	The format routine is incorrectly deciding the # of significant digits in a number when using decimal format. I think this may have been done originally for simplicity but it should be fixed	6-10 hrs
3083	137. GUI spinner controls when inputing value >= 2^16/2 in grid thickness spinner, causes error message and value reset to -32768. Pat: Problem is not the spinner. Object definitions using short ints when long ints should have been used.	2/16/2010	Pat	2	Aaron	Probably short data type used where long required, affects many of the spinner controls	1-2 hrs
3084	139. GUI variable options more status bar/history window updates needed.	2/16/2010	Aaron	2	Aaron	the only message that ever printed was "1: Cannot Set Value variable, no variables"	1 hr
2027e	Finishing the coordinate transformation of the thm_load_state data at input, to include transformation of spinaxis attitude, need to determine keyword switch, implement the rotation of the spinaxis elevation/azimuth from gei to arbitrary coordinates (consult with Pat, Vassilis)		Vassilis	2	Aaron	not allow velocity to go bad	
1579	When importing a variable with a valid 'V' component in its data struct, but no spec flag set in its meta data, the loaded data object fails to load the y-axis. This should be fixed, as it ends up incorrectly loading certain spectral quantities.		Pat	3	Aaron		
2121	When thm_load_fit is called requesting a single data type it will also 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	Aaron		
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	Aaron		
2029	From Hannes		Hannes	3	Aaron		
	Provided is the most common plot used by scientists that look at magnetic field data. Four panels Bx By Bz Bt and the position X Y Z as variables. Often the radial distance R is another variable. It would be great if someone enters e.g. tplot, 'tha_fgs_gsm' such a useful default plot would appear. I am currently not able to produce such a plot using tplot. Another useful plot would be instead of one trace per panel, 5 traces per panel. One for each spacecraft and 5 sets of positions as variables at the bottom. For example: tplot, 'th?_fgs_gsm' could produce such a plot. Also some standard plots that combine ground and spacecraft data could be useful. Notes from Vassilis: define keyword /positions default 'none', allow GSM X Y Z, R Lat Long,		Hannes	3	Aaron		
2029b	The level 2 CDF files at http://themis.ssl.berkeley.edu/data_download.shtml should contain position in various coordinate systems as well. Preferably in the same resolution as the data. Otherwise Scientists need to get the position from another source. Notes from Vassilis: option to introduce the data in RE with keyword (one RE =6,478 kilometers ???). Like thm_load_fgm /pos_units= 'RE'. Also thm_load_state keyword out_coord = 'GSM', 'GSE',etc.		Hannes	3	Aaron		
2029c	If one loads fgm data from probe 'a' and let's say there are no data for the chosen interval. The variables tha_fgl and tha_fgl_gsm etc. should all be empty. It could be those variables still contain data from the previously loaded interval.		Hannes	3	Aaron		
2030	upgrade thm_load to work with probe assignments		Vassilis	3	Aaron		
2031	move functionality of thm_load_state2 into thm_load_state and delete thm_load_state2		Vassilis	3	Aaron		
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2032	Multiple enhancements concerning keywords, valid_names and thm_load routines		Vassilis	3	Aaron		

	Jim L						
	The old spin period data (which is close to what was assumed on board by the IDPU) needs to be corrected to reflect that precisely also during the eclipse. This is now interpolated during shadow to avoid spinphase jumps at the ends, but should be corrected to reflect what the IDPU was thinking based on housekeeping (spinper differs by -msecs but this adds up quickly). This can be added into the same spinper file if it does not increase file size much. (Else	2/22/2010	Vassilis	1	Jim L	eclipse sun pulses - shadow correction - test data created - Vassile 4/22: First I care about the Feb 13 flyby. Can you ensure the processing is done properly there, using the QA. The FGM processing of L1 should agree with TUBS's assessment and they should be responsible for comparing and validating. In parallel please notify Jim McFadden that the dphi is available	
4054	represent the differences). Following subtasks remain: While using Ferdinand's code there was a bug found in the spin model	4/27/2010	Jim L	1	Jim L	for him in the QA, to change his DF's.	
3070	VC->L0 processing issue for outer probes	2/10/2010	Jim L	1	Jim L	Preliminary review completed	
3097	Add solar wind mode flag to L1 MOM Enhance L0->L1 processing script to update V03 state, if present,	4/12/2010 2/23/2010	Team Jim L	1 1	Jim L Jim L	let Jim M know when done	2 days
4041	along with V01 and V02 state. build new tmtools release 6_20 with support for 44f data. It would be nice to have this in place, tested and ready to go, when the IDPU FSW patch is uploaded to the first probe.	4/15/2010	Jim L	1	Jim L	3097 is a pre-requisite	
4030	cross-check SST psir6 and psif data types for excess counts in psir6	4/8/2010	Jim McFadden	1	Jim L		2 hrs
	Ferdinand sent was an attempt on his part to automate the shadow processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it up with him once you have gone through it.	4/14/2010	Vassilis	1	Jim L	prerequisite 3089. incorporate eclipse sun pulse generation into L0->L1 processing. Review "outputs" of Ferdinand Model to see if it can be used for spin model	
	In reviewing the metadata in these GOES masters, it seems the value of the global attributes TEXT has gotten cut off	4/5/2010	Tami - SPDF	1	Jim L		
	Paper on intersependentcies of FGM and STATE Reprocessing	4/19/2010	Pat	11	Jim L / Jim M		
2149g	Update overview plots to handle survey FFTs? write a routine to check time tag monotonicity and repair tplot variable if necessary (with options for "replace with NaN" and "delete")		Jim L and Michael	1	Jim L Jim L	assign when 2149e started. Michael: Since it is difficult or impossible (in post-processing) to identify all of the bad time tags (or even some of them e.g., the fast->slow case), I recommend that we just remove what is needed to make the time tags monotonic, and issue a warning indicating that the user should consult the THEMIS software team about that data.	
2266	Timing of Spin Fit data	10/16/2009	Jim McFadden	1	Jim L		
	EFW spike removal	2/1/2010	Vassilis	1	Aaron	Aaron will forward email	
	spinmodel_interp_t loops over each time segment individually. If we vectorize this operation, we could get serious speed increases. Would generate speedups EFI and for other calibration routines.	1/25/2010	Pat	1	Jim I		
2149h	integrate time tag fixer-upper with TDAS load routines		Jim L	1	Jim L		
2248	once in a while (maybe 10-20 occurrences per probe during the entire mission), the FGM range doesn't change on all three axes at once:	9/10/2009	Jim L	1	Jim L	see 2149g and h	
	Respond to SPDF's email concenring L1 cdf's. Include words as to what is in the L1 cdf's that are not in the L2 cdf's that users may want to use.	3/25/2010	David	1	Jim L		
4008a	He requested some extra datetime formats. A. Numerical month & time (ie 2007-03-23/00:00:00). this option isn't listed.	3/12/2010	Pat from a scientist (Martin Connors?)	1	Jim L		2 hrs
	He said there is an ANSI standard to separate date & time using a capital T and requested the option to put datetimes in this format. (ie '2007-03-23T00:00:00')	3/12/2010	Pat from a scientist (Martin Connors?)	1	Jim L		see above
	Our "save data as" menu doesn't remember the previous directory > that the user saved to. It could and it should.	3/12/2010	Pat from a scientist	1	Jim L		1 hr
	L1 FFT's split the variable into different data sources	3/25/2010	Jim L	2+	Jim L	Discuss with SPDF at the next meeting whether having one variable with multiple data sources is difficult for them	
	Update L1 master cdfs to support SPDF hosting Automate processing of eclipse sunpulse data from FGM team	3/25/2010 2/22/2010	David Jim L	2+ 2+	Jim L Jim L		3-4 days
2082a	Spin modeling during shadows BugZid=43 Split L1 ESA (using Thomas's routine) in master ESA data cdf		Vassilis Vassilis	2 2	Hannes Jim L	Jim L to write routine. Hannes send info. 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).	
2036	GOES 10-12 Test data: h. update labels (Howard's request - minor tweak)		Vassilis	2	Jim L	determine if to be reassigned	
	STATE Web Page (s)		Vassilis	2	Jim L	review web pages	
	bad timing sun pulse times (early January 2009)		Vassilis	2	Jim L	Clarification needed	
	L1 Data Processing History Info: SCM, EFI, STATE Refactor repeated CDF library code in CDF processing tools		Vassilis Vassilis	2	Jim L Jim L		
	BugZid=50 Create a more efficient & productive prototype QA Instrument Command Line Script - first template (s) functional blocks then scripts for FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag, State, SST, ESA		Vassilis	2	Jim L	In progress. Several templates created, selecting the appropriate command line routines to test.	
	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	Discuss with SPDF whether having one variable with multiple data sources is difficult for them	

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2047a	FGS sample times and values, showing repeated timestamps.		Vassilis	2	Jim L		
20174	BugzID=113 (BugzID=67 must be done first)		racomo	_	Ç Z		
2047b	Repeated timestamps and gaps in spin fit data BugZid=113 (#67 may fix this one as well).		Vassilis	2	Jim L		
2077	Non Monotonic timestamps. BugzID=72		Vassilis	2	Jim L		
2078	bau_sunpulse_met assumes x86 endiannes (BugzID=13)		Vassilis	2	Jim L		
	task 2047 in my name: "Seperate E and B timestamps for spin fits", which is also a change to the L1 FIT master CDF and associated TDAS code. But unlike the spacecraft potential enhancement (which only adds new CDF variables, and is more-or-less backward compatible), 2047 would require us to bump the L1 FIT CDF version number to V02, and produce both V01 and V02 for a while, so users of TDAS 5.20 and earlier will still be able to load L1 FIT data. So I'm not sure whether the spacecraft potential task should include 2047, or not.	3/2/2010	Jim L	3+	Jim L		
4023	Before EOM reprocess L1 cdf's due to master cdf changes for SPDF	3/25/2010	David	3	Jim L		
2080	Phantom packets" cause non-monotonic distribution times.		Vassilis	3	Jim L		
2081	BugzID=25, low priority. Evaluate CDF compression algorithms BugZid=81		Vassilis	3	Jim L		
2083	Add "last processed" time to L1 (and L2?) CDFs BugZid=115		Vassilis	3	Jim L		
2084	transforming one data point from SM coordinates to GSM 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(x²2+y²2+z²2)=1		Christine	3	Jim L		
4044	Jim M Reprocess STATE so Jim M can reprocess FGM from 8/17/09	4/19/2010	Hannes	1	Jim L / Jim M	ESA, MOM and FIT L2's for the last 8 months, due to differences in the FGM's and coordinate transforms.	
2056	SCM L2 cdf		Vassilis	1	Jim M	Send email to Olivier - start processing soon	
2057	SCM CAL File Processing Doc		Vassilis	1	Jim M	Document sent to Olivier for review.	
	L2 EFI cdf (quality flags)	8/31/2004	Vassilis	1	Jim M	Test data sent to John B for review by 5/1	
	Sort out if TDAS software can run off SPDF cdf's	3/5/2010	David	1	Jim M	sent Tami list of Calibration files - Jim M needs to check if zeros directory online	
4033b	Add solar wind mode flag to L2 MOM, ESA and SST and then reprocess.	4/12/2010	Team	1	Jim M	Pre-requesite 4033a (Jim L)	
	Revise thm_load_fit (command line and GUI) to load the additional L1 variables.	3/2/2010	Jim L	1	Jim M	pre-requisite 3099c test data (Jim L) and awaiting FSW patch from PRH to create test data for 3099-d	
	Revise thm_cal_fit, and thm_cal_efi to do the right thing when EFI-Z is not present.	3/2/2010	Jim L	1	Jim M	pre-requisite 3099c test data (Jim L) and awaiting FSW patch from PRH to create test data for 3099-d - in progress	
3099f	Revise the calibration code for the particle data types (ESA, perhaps also SST or MOM?) to look for spacecraft potential in L1 FIT, if the moments are decimated	3/2/2010	Jim L	1	Jim M	pre-requisite 3099c test data (Jim L) and awaiting FSW patch from PRH to create test data for 3099-d - in progress	
3090	Then one needs to correct the particle distributions to be introduced in the same orientation. I.e., should use the corrected spinphase upon being introduced (on the fly). This means the particle loading software needs to read the above difference between corrected and uncorrected spinphase, and apply a rotation to the distribution functions upon reading. This should be done with a keyword first, and routinely when we get into orbit (by which time the shadow spinphase determinations will hopefully be automated). I think McFadden is the one to do this but he can also assign it.	2/22/2010	Vassilis	1	Jim McFadden	3089 is prerequisite - Vassilis 4/23: un-rotate the V's from the dphi and the onboard spinphase) and compare with the ground-processed V from the distribution functions. ESA and MOM code to use new features of spin model.	
	Paper on intersependentcies of FGM and STATE Reprocessing	4/19/2010	Pat	1	Jim L / Jim M		
	47. CL specplot missing peib data for tests 25 and 26 The data processing panel doesn't allow split components. This is fine for some operations, even required, but for some operations this doesn't make sense. For example, clipping. There is a good chance that some people will want to clip each component at separate values.	1/15/2010 12/11/2009	Jim M Pat	1	Jim M Jim M	Data exists, but isn't plotted for some reason. Jim M to assess only	tbd 1 week
3085	138. GUI SCM cotrans inconsistent results depending on starting/ending coordinate systems. Pass warning through to GUI	2/18/2010	Jim M	1	Jim M	Also should check if same problem exists with command line? Will take time to look at code to get an estimate	tbd
	L2 SST cdf revisions EFI and SST Calibration Documents	8/31/2004 4/30/2010	Vassilis David	2+ 2	Jim M Jim M	awaiting SST calibrations	
	had expected that this cotrans would occur at the very end, after all	11/12/2009	Jim	2	Jim M	see 2256	
2283	the calibration code. But the calibration itself seems to be affected, There is another aspect to this problem. Dead-time corrections are severe for ion ESA SW data and there are no dead-time corrections for onboard moments. Some algorithm will have to be developed that does this correction after the fact. Davin developed an algorithm like this for Wind 3DP. That algorithm may not work directly due to differences in energy sweeps, but something like it could be developed for THEMIS. Davin and I can provide some advice and direction. Similarly electron onboard moments in the SW may also need some corrections this should also be worked out at the same time.	11/2/2009	Jim Mcfadden	2	Jim M		
2058	found 3 errors in the new th*_I2_esa masters - the good news is, with them fixed in our masters, all plotting issues w/ the ESA files (in CDAWeb) seem to have been resolved.		Vassilis	2	Jim M		
2060	L2 cdf Quality Flags: for SST		Vassilis	2	Jim M		
1							

						1	
	L2 File Definitions Document Alberta - At the moment the data files are from Dawson (daws), Churchill (fchu), Island Lake (isll) and Fort McMurray (mcmu). I will		David Vassilis	2	Jim M Jim M		
	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						
2007	from Alberta		Vassilia		line M		
2087	Administrator's Guide Themis Developers Guide		Vassilis Vassilis	2	Jim M 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.						
2090	that streamlines the generation of gmag stackplots and a crib to		Vassilis	2	Jim M		
2091	show how to do this. (< than a day) Once Jim McFadden completes his mods for n_3d_new_3 reprocess		Vassilis	2	Jim M		
	L2 cdf's - entire mission						
2092	thm_load_mom changes - reconcile mods with Davin at an appropriate time.		Vassilis	2	Jim M		
2055			Vassilia	2	line M	On Holds asserting limit to onlike thinks proceed and	
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	
	Document: SST File and Calibation Processing	3/5/2010	David	2	Jim M		
	Document: ESA File and Calibation Processing AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis:	3/5/2010	David Vassilis	3	Jim M Jim M		
	minor nuisance		v dəəiilə		JIIII IVI		
	Overview plot change: mode bar seems thick		Vassilis	3	Jim M	nothing we can do easily	
	Mosaic Processing - permanent script needed EFI calibration		Vassilis John	3	Jim M Jim M		
			Bonnell				
2100d	DC offset between 4sdo and 2sdo in boom plane		John Bonnell	3	Jim M	Which is better? Assigned to J. B. (low priority).	
2100h	Try to track down frequency scaling problem in DPWRSPC (dlimit		John	3	Jim M	On Hold - low priority	
2400	setting? Compare to old plots?). Modify THM_CAL_FIT to treat efs datatype - Install E12/E34		Bonnell	3	line 8.4		
2100p	conditional based on th?_fit_code TPLOT variable. If E12 switched to		John Bonnell	3	Jim M		
	E34 software needs to be revised to handle						
	Pat						
	Support Mirror Sites Japan (ISAS)		Vassilis Vassilis	0	Pat Pat		
2069b	Austria		Vassilis	0	Pat		
	France		Vassilis	0 0	Pat	(Rumi - not always up to date for gmags)	
2070	Support gmag data remote sites.		Vassilis	U	Pat	The -12 days ones are ones that Kathryn indicated are on the fritz: BMLS,UKIA,HOTS,PINE.	
2070a	Augsburg (MACC's)		Vassilis	0	Pat		
	Alberta		Vassilis	0	Pat		
	Greenland		Vassilis	0	Pat		
3033	GBO rsync from U Calagary is failing. Contacting Emma Spanswick	1/5/2010	Pat/Jim M	0	Pat		
3034	to determine source of problem. Rsync to GIMA server is failing. Ualaska Server was replaced and	12/7/2009	Jim M	0	Pat	Working out problems with SSH public-key	
	renamed.					autheticationmaybe try http.	
2265	When new FGM Cal files come from David Fisher reprocess last 6 months.	10/16/2009	Pat	0	Pat	ongoing	
3025	SST Code development	12/18/2009					
3025a		12/10/2003	Davin	1	Pat		
1	Determine scales and offsets for correcting on-board moments to	12/10/2003	Davin	1		called Jim McFadden - no response	
30256	match ground based moments during solar wind mode.	12/10/2003	Davin	1			
3025b		12/10/2003	Davin	1		called Jim McFadden - no response awaiting Jim L 4033a	
	match ground based moments during solar wind mode. Determine when spacecraft is in solar wind mode, and apply	12/18/2009	Davin Davin	1		awaiting Jim L 4033a waiting for receipt of code from Davin. He said that it	
3055	match ground based moments during solar wind mode. Determine when spacecraft is in solar wind mode, and apply corrections. Debug source code from Davin to determine source of crash	12/18/2009	Davin	1	Pat Pat	awaiting Jim L 4033a	
3055	match ground based moments during solar wind mode. Determine when spacecraft is in solar wind mode, and apply corrections.				Pat	awaiting Jim L 4033a waiting for receipt of code from Davin. He said that it	
3055	match ground based moments during solar wind mode. Determine when spacecraft is in solar wind mode, and apply corrections. Debug source code from Davin to determine source of crash	12/18/2009	Davin	1	Pat Pat	awaiting Jim L 4033a waiting for receipt of code from Davin. He said that it	
3055	match ground based moments during solar wind mode. Determine when spacecraft is in solar wind mode, and apply corrections. Debug source code from Davin to determine source of crash Retrieval of ASCII Data - Including 2009. This happened on a fresh session after loading all L1 EFI variables for	12/18/2009	Davin	1	Pat Pat	awaiting Jim L 4033a waiting for receipt of code from Davin. He said that it	
3055	match ground based moments during solar wind mode. Determine when spacecraft is in solar wind mode, and apply corrections. Debug source code from Davin to determine source of crash Retrieval of ASCII Data - Including 2009. This happened on a fresh session after loading all L1 EFI variables for 2009-02-09 probe C and attempting to plot the fast survey data (I had	12/18/2009	Davin Laura	1	Pat Pat Pat	awaiting Jim L 4033a waiting for receipt of code from Davin. He said that it	
3055	match ground based moments during solar wind mode. Determine when spacecraft is in solar wind mode, and apply corrections. Debug source code from Davin to determine source of crash Retrieval of ASCII Data - Including 2009. This happened on a fresh session after loading all L1 EFI variables for 2009-02-09 probe C and attempting to plot the fast survey data (I had smillar problems last month plotting EFI wave burst data). The plots still appeared in the draw window after Layout Options crashed, but	12/18/2009	Davin Laura	1	Pat Pat Pat	awaiting Jim L 4033a waiting for receipt of code from Davin. He said that it	
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3055	match ground based moments during solar wind mode. Determine when spacecraft is in solar wind mode, and apply corrections. Debug source code from Davin to determine source of crash Retrieval of ASCII Data - Including 2009. This happened on a fresh session after loading all L1 EFI variables for 2009-02-09 probe C and attempting to plot the fast survey data (I had smillar problems last month plotting EFI wave burst data). The plots still appeared in the draw window after Layout Options crashed, but	12/18/2009	Davin Laura	1	Pat Pat Pat	awaiting Jim L 4033a waiting for receipt of code from Davin. He said that it	
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3055 2280 3029	match ground based moments during solar wind mode. Determine when spacecraft is in solar wind mode, and apply corrections. Debug source code from Davin to determine source of crash Retrieval of ASCII Data - Including 2009. This happened on a fresh session after loading all L1 EFI variables for 2009-02-09 probe C and attempting to plot the fast survey data (I had similar problems last month plotting EFI wave burst data). The plots still appeared in the draw window after Layout Options crashed, but panel tracking was off, the gui ran very slow, and even after removing some deleting variable to free memory I had to reset IDL to get everything working. Traceback Report from THM_UI_LAYOUT_OPTIONS_EVENT:	12/18/2009	Davin Laura	1	Pat Pat Pat	awaiting Jim L 4033a waiting for receipt of code from Davin. He said that it	
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3055 2280 3029	match ground based moments during solar wind mode. Determine when spacecraft is in solar wind mode, and apply corrections. Debug source code from Davin to determine source of crash Retrieval of ASCII Data - Including 2009. This happened on a fresh session after loading all L1 EFI variables for 2009-02-09 probe C and attempting to plot the fast survey data (I had similar problems last month plotting EFI wave burst data). The plots still appeared in the draw window after Layout Options crashed, but panel tracking was off, the gui ran very slow, and even after removing some deleting variable to free memory I had to reset IDL to get everything working. Traceback Report from THM_UI_LAYOUT_OPTIONS_EVENT: Since we can't fix problems with IDL's printer support, but frustrations with IDL's printer support seem to be a common problem among users, we should probably create a popup warning that tells users to	12/18/2009 10/29/2009 1/4/2010	Davin Laura Aaron	1 1 1	Pat Pat Pat	awaiting Jim L 4033a waiting for receipt of code from Davin. He said that it	
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3055 2280 3029 4028	match ground based moments during solar wind mode. Determine when spacecraft is in solar wind mode, and apply corrections. Debug source code from Davin to determine source of crash Retrieval of ASCII Data - Including 2009. This happened on a fresh session after loading all L1 EFI variables for 2009-02-09 probe C and attempting to plot the fast survey data (I had similar problems last month plotting EFI wave burst data). The plots still appeared in the draw window after Layout Options crashed, but panel tracking was off, the gui ran very slow, and even after removing some deleting variable to free memory I had to reset IDL to get everything working. Traceback Report from THM_UI_LAYOUT_OPTIONS_EVENT: Since we can't fix problems with IDL's printer support, but frustrations with IDL's printer support seem to be a common problem among users, we should probably create a popup warning that tells users to use the file->export to image menu, if they have problems with	12/18/2009 10/29/2009 1/4/2010	Davin Laura Aaron	1 1 1	Pat Pat Pat	awaiting Jim L 4033a waiting for receipt of code from Davin. He said that it	
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3043	36. GUI interpolate error with multiple quantities selected and one is out of range bad item not skipped, following items not processed.	1/15/2010	Pat	1	Pat	#2 Loaded data for data 2007-03-24. Types: efi_vaw, tha_fgl_dsl,tha_fgh_dsl. Make all data active. In the order above(I believe exact order is important). Open interpolate panel, select "cadence" radio button, leave at default, select limit time, leave at default for quantity vaw(2007-03-24/22:47:06,2007-03-24:22:47:22). Select "Okay", it processes first quantity, then second quantity is out of range, produces error but does not process 3rd quantity(fgh). It should skip over #2.	
3044	38. QA: GUI interpolate Interpolating state data to match efi_vaw, "data out of range" error if no state samples fall within the efi_vaw time range.	1/15/2010	Pat	1	Pat	#4 Date 2007-03-24, data efi_vaw, tha_state_pos. Make state active. Select "interpolate", select "match" match to quantity "efi_vaw", select "extrapolate" Select limit time range, select range for efi_vaw (2007-03-24/22:47:06,2007-03-24:22:47:22): Says no data in range. What is happening here is that there are state points on either side of the vaw interval, but no points inside the interval. Perhaps one possibility where time is limited & matching is being done, maybe it should limit based upon the range of the match quantity and not the range of the target?	
3048a	Profiled EFI calibration can speed up by reducing the number of calls to spinmodel_interp_t. Right now >95% of time is spent in spinmodel. It calls spinmodel_interp_t 2x for each 3d data type, could probably use a single call for multiple data types with the same cadence.	1/25/2010	Pat	1	Pat		
	The last time we have GBO data is 1/12/10	2/2/2010	K. Rowe Lvnn Wilson	1	Pat	the gap to the end of the month	
3058	The size of the windows created by the widgets in IDL for the SCM instrument are too big (at least they were on mine). It was easily remedied by changing the size of the boxes allocated in the probe/Level-1/Level-2 lists in the program thm_ui_scmcal.pro. I simply altered the value passed to the YSIZ keyword in the WIDGET_LIST function call (lines 610 - 628, I think).	2/5/2010	Lynn Wilson	1	Pat		
3068	120. GUI GMAG cotrans error, says coordinate system is undefined	2/11/2010	Pat	1			
4012	When Cindy & I tried to load tha_eff on 2007-03-23, it didn't load and said some calibration quantity couldn't be found. When I tried to load the same thing, I didn't have a problem. So the trick would be to find out what changed from my computer to Cindy's computer and to figure out how often our user's computers are going to have the same problem that Cindy's computer had.	3/22/2010	Pat	2+	Pat	Jim M: I have no trouble with EFF data either for linux or windows.	
4045	For the beta and official sites we want to add a button at the bottom to the right of the existing two buttons. Official site web page url: http://themis.ssl.berkeley.edu/summary.shtml?autoload=1 Please center the 3 buttons. The new button will have the words "Plot Descriptions" and if clicked will link to the following: ftp://apollo.ssl.berkeley.edu/pub/THEMIS/3 Ground Systems/3.2 Science Operations/Science Operations Documents/THEMIS Summary Plot Description Tables	4/19/2010	Pat	2	Pat		
3053	102. Tplot_gui overwrite warning when importing data, even if	2/3/2010	Pat	2	Pat		
2115	variable gets renamed. 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:			2	Pat		16
2267	tplot_options,'ymargin',[100,100] if you want to load a template, you need to pass the template path in via a keyword, or select an option to open it from the THEMIS->File Menu. I think we should consider adding the template path to the configuration file that we save, so that it can be loaded automatically.	10/19/2009	Pat	2	Pat		40
4013	Plot Description Doc Button	3/22/2010	David	2	Pat		
	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	
2201	One feature that was never implemented for the mini-language is globbing. (The ability to use "" and '?' to reference multiple tplot variables at once.) This is a feature that is standard with many of our other tplot data processing routines. I think it would be very useful to include in the mini-language.	8/5/2009	Pat	2	Pat		
2187	I noticed a bug in the x-axis options panel. It probably also applies to the y-axis options. If the set-all button is selected on the grid tab, then changing panels doesn't update the settings on the grid tab to the settings currently displayed for that panel.	7/29/2009	Pat	2	Pat	set to most recent user action for all routines	
2041	thm_load_state out_coord velocity calculations wrong		Vassilis	2	Pat		

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2285	Christine brought to my attention a bug that occurs if you use the TDAS tsyganenko routines in a way that is not really something that I expected, but seems to be a legitimate use of the routines. If passing in a set of input parameters that are stored in tplot variables but are not in time-series, the routine produces incorrect results.	11/4/2009	Christine	2	Pat		
3086	add MACCS gmag data from 2007 to our data archive. We already have MACCS data for some years and a process that automatically downloads it/converts to CDF. So the task would involve finding missing files from 2007 and feeding them into our pre-existing processing framework. It should be pretty straightforward, but probably non-trivial because of learning curve/unexpected details.	2/19/2010	James Weygand	2	Pat		8 hrs
3091	Add a configuration setting "force_download", which if enabled, will download data even if the remote file is older than the local file. This comes up if you're switching back and forth between using QA data and production data; once you've downloaded QA data, it's hard to download (usually older) production data without manually removing any QA files. This should apply to all data sources THEMIS, GOES, WIND, etc.	2/22/2010	Vassilis	2	Pat		4 hrs
3065	68. GUI z-axis options when Fixed Min/Max selected, value in spinners does not reflect current range as it does for X and Y axes. Displayed range when spinners desensitized is inaccurate.	2/10/2010	Aaron	3	Pat	chech draw object	
4005	The TDAS Software will be enhanced to incorporate data from the	3/8/2010	David	3	Pat		
4006	STEREO mission. add the following ancillary ground-based observations: MAGDAS Network, Auroral Electrojets (AE) and Ground Radars (SuperDarn, AMISR and Sondrestorm)	3/8/2010	David	3	Pat		
3007	EPO-GMAG msgs: modify the script and only issue this message if > 2 days	12/8/2009	David	3	Pat		
2279	How's it going with the stats? I noticed the query takes some time because it's looking at the whole table. It could be refined for specific time periods. The delay in return could be what's causing Dave to have access problems - or the SSL firewall?	10/23/2009	Tim	3	Pat	see 2277	
2135	I didn't realize the cotrans messed up the velocities for earth centered coordinates. Maybe what we really need to do is modify cotrans so that it correctly transforms velocities. Users can incorrectly transform velocities just as easily using thm_cotrans on the command line, as they can using the coord keyword.		Pat/Jim L	3	Pat		
2124	I loaded a plot which had the line color as white. Because the legend plots in the same color as the line, the legend text did not show up. We should probably just put in a check for this case. If the line is white and the background is white then draw the text in black		Pat	3	Pat		
2063	Problem with edit3dbins is being caused by IDL's mouse system variable not being updated correctly on Macs. The ctime procedure, used to interactively select a time from a tplot window, relies on this variable to determine when a selection has been made in the tplot window. If the variable is never updated then ctime gets caught in an infinite loop. It's unclear whether this is specific to a particular OS version, but the routine should probably be modified at some point to maximize compatibility with Macs. In the meantime the alternate method of calling gettime that I copied you on yesterday should provide a temporary way around this bug.		Aaron	3	Pat	verify note in quick reference guide and then task will be closed	
2106	Add the ability to right-click on a variable in the widget-tree and display a popup with basic information about the quantity such as dimensions, range, or other meta data as well as the ability to rename variable		Pat	3	Pat	originally part of task 64, however, after further evaluation, it was determined this best belonged with the widget tree rather than the analysis window	4-8 hrs
2220	I found a small bug in the z-axis panel in the gui. If I change the z-axis annotation size of a layout with 2-panels each with one spectrogram, when I apply this change, it gets applied to both panels, even if set-all is off.	8/27/2009	Pat	3	Pat		4 hrs
3063	40. CL tplot options setposition test plots all look the same Misc	1/15/2010	Pat	3	Pat	Long-standing tplot bug, may not ever be fixed	16-24 hours
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	16-24 nours
							4 hrs