Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate (hrs)
	To be Assigned or Discussed	1					
2126	State Vector -> remove coord keyword Taking a brief look at scm data around uploading, I have realized that scw waveforms were saturated for THC between May 22 (included) and May 27 (uploading) and for THB on May 22		Pat/Jim L Olivier	tbd 1	tbd tbd		
	(included), May 26 and May 30 (just after uploading on May 29). Looking at scw waveforms on June 1st, and 3rd, I have checked that the waveforms are no longer saturated on THC as well as on THB. So, the issue seems to be temporary. The other probes (THA, THD, THE) seem to be not concerned. I do not know whether such saturations were expected due to maneuvers or operations but I have preferred to let you know about these facts.						
2107	Add a new feature that allows the user to delete variables from the data processing window (avoids having to open the manage data window every time)		Aaron	tbd	tbd		
2108	Manage Data: The manage data fields should be made tabable.		Aaron	tbd	tbd		
2109	Calculate If the cursor is clicked onto the the last line in the program area, and if that line is blank, then inserted data names will appear either at the top of the field or at a recently clicked location.		Aaron	tbd	tbd		
1549	Get Spec - It would be nice if we organize some of the options in the top-right so that we can tell exactly when they are applied and how they interact. For example, we could desensitize the regrid option when it doesn't apply. Or perhaps organize the bases with a frame. Right now it almost looks like "normalize spectrum" is related to regrid, even though they are separate settings.		Pat	tbd	tbd		
1551	The hourglass cursor does not stay on consistently while an overview plot is being generated.		Aaron	tbd	tbd		
1565	I noticed while trying to export an EPS of some FGH that the fan compression algorithm can be very slow. A little while back, I thought of a way to make the algorithm much faster at the expensive of slightly worse compression ratios. I think this could be well worth implementing after this release and I don't think it would take too long.		Pat	tbd	tbd		
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	tbd	tbd	non-gui	
2132	While working on documentation, I tested the kw: THEMIS> thm_load_efi, probe = 'c', datat = 'eff', cdf_data = cdf_data Level = ['11'] probes = ['c'] Datatypes = ['eff'] Type = 'calibrated' Variable is undefined: NSNAMES. Execution halted at: THM_LOAD_EFI 93 C:\My Documents\THEMIS\software\THEMREPOS\themis\spacecraft\fields\thm_load_efi.pro		Michael	tbd	tbd	non-gui	
2133	I found that VARNAMES was not working. It turns out that it is not an input as given in the doc'n, but an output from CDF_LOAD_VARS.PRO. That is also fixed b/c it needed CDF_DATA to be set (?). It is probably supposed to be paired w/ the CDF_DATA kw, so I will just put it that way in the doc'n for now, and we will just call everything closed.		Michael	tbd	tbd	non-gui	
2134	In the current version, if you rename a quantity in the manage data panel, it automatically changes the labels. This may not be appropriate now that we read label defaults when import, as it can sometimes replace a perfectly good label. We probably want to fix this code, so that it is more careful before replacing a plot label.		Pat	tbd	tbd		
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	tbd	tbd		
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	tbd	tbd		

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2137	The CDF attributes for some of our GMAGs list the wrong location	Pat	tbd	tbd		
	for the calibration files in the attribute:					
	dl.cdf.gatt.logical_source_description It lists the cal files at:					
	CAL files at http://www-ssc.igpp.ucla.edu/themis_data/calib_files/ But the calibration files for: ATHA, FSIM, FSMI, GILL, PINA, RANK,					
	SNKQ will be found somewhere on this site:					
	http://portal.cssdp.ca:8080/ssdp/jsp/logon.jsp					
		_				
2139	I noticed that when calc performs an operation that reduces the	Pat	tbd	tbd		
	number of dimensions on a tplot variable, it doesn't reduce the					
	number of labels and/or colors, which can cause tplot to issue a warning when a result is plotted.					
2140	A suggestion: The function used by tsub_average to return the	Aaron	tbd	tbd	Subtracting the stand. dev. from a quantity	
	median or average of the data can also be used to return the				may not make sense in the way that	
	standard deviation. Since a single panel will probably be made for				subtracting the average/median does. We	
	both the subtract average and subtract median options we could				may just want to direct people to the	
	also add a third option to add/subtract the standard deviation.				calculate panel, possibly adding a function	
		5 ./0" :			to calc. stand dev Pat	
2141	When adding the wavpol crib to the distribution, Olivier mentioned a limitation in the TDAS pwrspc & dpwrspc routines, that we may	Pat/Olivier	tbd	tbd		
	want to consider fixing. We may want to add a keyword so that					
	"they allow to change the frequency resolution by merging near					
	frequency channels."					
2144	When running tests on rotation crib-sheets, I found a problem with	Pat	1	Pat		
	some field aligned coordinate variants. Specifically, the Rgeo and					
	mRgeo transformation don't normalize the y-axis vector of the					
	transformation matrix such that the output matrix generated will not be a proper rotation matrix, but will also scale some of the					
	components by a factor.(I think the scaling factor should be the					
	Sine of the angle between the radial position vector and the					
	magnetic field vector).Requires changes in both fac_matrix_make					
	and thm_fac_matrix_make, but they should be fairly quick.					
2145	Problem with ASI crib when using the command 'ctime,/cut' to	Pat	tbd	tbd	email from Harald	
	generate the movies, it generates an error if you scroll out of					
	bounds. The exact error message produced is: Error: -161					
	Attempt to subscript <ptrheapvar289> with I is out of range.</ptrheapvar289>					
	% Stop encountered: \$MAIN\$ 58					
	/home/pcruce/IDLWorkspace/themis/examples/thm_crib_asi.pro % Program caused arithmetic error: Floating illegal operand					
2147	FGM spin harmonics correction (remove interference from solar	FGM Team	tbd	Jim L		
2177	array currents). David Fisher has produced several tables (each	1 GW TCall	ibu	and/or		
	table valid for a few months; correction varies with sun angle) of			Hannes		
	FGM correction vs. spin phase					
2147a	Decide on how to represent tables for use in thm_cal_fgm (keep as	FGM Team	tbd	Jim L		16
	ASCII? convert to CDF?), get full set of corrections, convert to the			and/or		
	desired format, install somewhere under /disks/themisdata			Hannes		
	(probably alongside FGM cal files?)					
2147b	Add a step to thm_cal_fgm to load the appropriate correction tables	FGM Team	tbd	Jim L		40
	for the probe & time interval being processed, use spin phase at each sample and interpolate within table to find correction at that			and/or Hannes		
	point, apply correction. There should be a way to disable this			Tialilles		
	correction (e.g. /NO_HARMONIC_CORRECTION keyword or					
	similar, since David F. will need to periodically create new tables					
	from the uncorrected data as data continues to accumulate).					
L	10.504	-o				
2147c	Reprocess L2 FGM products with enhanced code	FGM Team	tbd	Jim M or	It might make sense to delay 2147c and	
				Tim	2148b L2 reprocessing until the 2149d L1	
	100 11 11 11 11	-o			reprocessing is performed.	
2148	ADC non-linearity correction: This was proposed as a correction to	FGM Team	tbd	Jim L		
	(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			and/or Hannes		
	Z components of the FGM data when the field increases or			паппез		
	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.					
2148a	3a) Incorporate Dragos' code in thm_cal_fgm (hold off on	FGM Team	tbd	Jim L		16
2140a	implementing until Dragos delivers improved algorithm; estimate 2	i Oivi i eaiii	เมน	and/or		10
	days from receipt of revised code?)			Hannes		
2148b	Reprocess L2 FGM products with enhanced code (Jim McT,	FGM Team	tbd	Jim M or	It might make sense to delay 2147c and	
	combine with 2147c?)			Tim	2148b L2 reprocessing until the 2149d L1	
61:-		F01: -			reprocessing is performed.	
2149	They were also asking when we'll be getting rid of the spikes in the	FGM Team	tbd	Jim L		
	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?					
2149a	Packet lookahead in L0->L1 processing (Bugz #67)	FGM Team	tbd	Jim L		16
2149b	Apply despike algorithm to current packet if next packet has	FGM Team	tbd	Jim L		16
0112	different range (Bugz #44)	FOLLT	41.1			
2149c	When a and b are coded and tested, build new tmtools release and	FGM Team	tbd	Jim L		8
7/2/2000	start using it for automated processing. 1:17 PM	2			20000703 Boy A. Thomis C-11.	oro Took I
11212009	I I / FIVI	_			20090702 Rev A - Themis Softwa	are rask P

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	tbd	Jim L	Set-up only, then goes to Tim or Jim M	1
2152	Layout Options produced multiple errors then crashed upon startup after I imported a tplot variable composed of byte data. I could not open the window until the data was deleted. % TIME_STRUCT: Improper time input % TIME_STRING: Improper time input 1) Type conversion error: Unable to convert given STRING to Integer. 2) Detected at: THM_UI_WIDGET_TREE::ADDGROUP 585 3) Type conversion error: Unable to convert given STRING to Integer. Detected at: THM_UI_WIDGET_TREE::ADDGROUP 618 4) WIDGET_TREE: String expression required in this context: <int (0)="">. % Execution halted at: THM_UI_WIDGET_TREE::ADDGROUP 618 THM_UI_LAYOUT_OPTIONS 2130 A crash occurred that shut down IDL when trying to open a</int>		Aaron Pat/Cindy	tbd	tbd	I was able to reproduce this consistently	
2100	THEMIS document. Some possible causes, a. R/W protection of the file? b. Incorrect file name/path? c. Second opening of the same file?		T at Sinay	ibu	i.bu	on my mac when opening the same file a second time Cindy	
2154	Bug with main image not being properly centered after a zoom. This is also a bug with IDL and thus not totally our problem, but also something we may want to try to work around. I had never seen it before except once previously with the Mac and the projector attached. Possible causes? a. It may be that having a projector attached somehow tricked IDL into improperly reporting the screen dimensions/resolution. b. I noticed that when Cindy typed in the text to zoom, she typed 5/100, then backspaced off the 1/1/1 so it will have read 5100% zoom for a second. There should be code to limit the maximum zoom, but it may have broken for some reason.		Pat/Cindy	tbd	tbd		
2156	When writing the tplot export crib, I noticed that tplot_ascii doesn't export any of the y-axis scaling information for tplot spectral quantities(this is typically the d.v or d.v1 component of a tplot variable) Without this information, it is not possible to accurately reconstruct a spectral quantity. To keep things simple it should probably just dump the d.v-data into a separate file.		Pat	tbd	tbd		
2158	I noticed an issue with the z-axis labels on the overview plots. The text from adjacent plots runs together and this makes them essentially unreadable. This should be very simple to fix. We just need to modify ui_overplot so that it sets the z-axis label margin to values which will stagger the z-axis labels. We should probably also remove the '!C' characters from the default labels, as '! C' is currently ignored by the gui.	7/2/2009	Pat	tbd	tbd		
2162							
2163							
2164							
2165 2166							
2167							
2168							
2169							
2170							
	General						
	Review EFI web pages on beta site		David		John B	1	
-	Create web pages for FFT, FBK and FIT Enhanced SST and MOM Instrument Web Pages		David David		Chris Cully Davin	target //o	
	EFI Wiki Pages		David		John B		
	SST Wiki Pages		David		Davin		
	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	Waiting for student to have time.	
	Review corrections to the EFI Web pages from Amanda		David		John B		
	Move EFI Web Pages from beta to official web site		David		Amanda	After John has verified changes	
	Problem with the front page of the web site. When you hover the mouse over the "Data" link near the top of the page, then move down to the "Data processing" or "Collaboration tools" menu items, the next level of fly-out menus is unreadable they're blocked by one of the images next to the "Latest News & Events" section. I'm using Firefox 2.0.0.20 on Windows. When I look at the site in Internet Explorer instead of Firefox, the menus comes out on top of the image like they're supposed to.		David		Amanda	Amanda not yet notified	
	ESA Processing Web Page revision	7/1/2009	David		Amanda		
2161	Handle Tony's Pub SST, ESA and EFI Wiki pages - initial entries	7/1/2009	Tony Vassilis		Amanda Vladimir		
	Calibration - send sample to Vassilis and David Sibeck		Vassilis		Vladimir		
	Link to Plots		Vassilis		Vladimir		
_							

	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).					
	L2 File Definitions Document - awaiting L1 document to be completed to use as template.	Vassilis		Andreas		
	Clean-up the power ripples from the FGM data.	Krishan			awaiting programmer	
	Revise the Data Products Web page and send to Amanda	David		David		
	Harald Keograms being updated.				Current status ASK through October 5	
					2008	
	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 2008, Jan 15 2009 and onward. (Jim M)	
	Overview plots for web site done though 4/30/2009.				, , , , , , , , , , , , , , , , , , ,	
	CDF file up to date through 4/30/2009. During the tail season I kept these up to date every 10 days. Now I planned to keep up with this task only once a month somewhere around the 10th of the following month.					
	Summary Plots through March 2008.					
	L2 ASI cdf's When L2 ASI available Quality Flags and History Status?					-
	, ,					
2060	Tim	Vessili-	4	Time	Awaiting into from lon	
2068 2069	Data Recovery Support Mirror Sites	Vassilis Vassilis	1	Tim Tim	Awaiting info from Jon	-
	Japan (ISAS)	Vassilis	1	Tim		
2069b		Vassilis	1	Tim		
2069c	France	Vassilis	1	Tim	(Rumi - not always up to date for gmags)	
20690	UCLA – mirror site set-up	Vassilis	1	Tim	UCB sent 08T UCLA loaded 06T. Four bricks sent to UCLA - UCLA must reconfigure server first. UCLA will need to supply SSH key - RSYNC Key	
2070 2070a	Support gmag data remote sites Augsburg (MACC's)	Vassilis Vassilis	1	Tim Tim	One of our researchers (Jim M) noted a problem in the Pangnirtung data - Nain and Cape Dorsett updating routinely. Other stations - Problem with ASCII files? Awaiting reply from Erik. If no reply by 6/12 Tim will ping Erik again. 6/22 - Glitches with Nain and Cape Dorsett - resolved?	
	Alberta	Vassilis	1	Tim		
	Greenland Processing full resolution ASI data disks (Apr-Nov 2008).	Vassilis Vassilis	1	Tim Tim	On Hold for IT to complete backup.	
2072	Reprocessing full resolution ASI data disks (Apr-Nov 2006). Reprocess of ESA L2 data from these dates and all days after until 5/31. This is needed to fill in a missing energy bin in 88x15 full electron mode.	Jim M	1	Tim	On Hold for IT.	
2096	Inventory of Products, monitoring and building new alarms for Production Data Processing. Draft document produced. Next version with Harald's info as well	Vassilis	2	Tim		
2097	Create checksum files for gmag (completed), ASI then Probe files	Vassilis	3	Tim		
	Hannes					
	New FGM offsets for tail season	Vassilis	1	Hannes	in progress	
2074	V03 STATE	Vassilis	1	Hannes		
2074a 2074b	Test FGM with new V03 STATE cdf See email concerning parms ("thx_sci_mode",	Vassilis Vassilis	1 2	Hannes Hannes		
	"thx_hsk_issr_mode") sci_mode - know fast survey, issr_mode - when IDPU thinks fast survey					
2074c 2075	quality flag for FGM data Spin Axis offsets – Improve the new spin axis offsets calibration	Vassilis Vassilis	1	Hannes Hannes	talk to Uli	
_0.0	routine – In progress. A new technique has been developed for inside magnetosphere with high accuracy. Once complete a paper to be published. Sent data to Karl Heinz, included in the distribution	. 300110	·			
	Spin modeling during shadows BugZid=43	Vassilis	3	Hannes		
2082	op modeling daming chade to bagbia to				•	
2082	Aaron					
2033		David David	1	Aaron Aaron	eta 7/2	1

2033b	SCM and EFI L2 variables		David	1	Aaron		
2033c	L2 STATE (?)		David	1	Aaron		
37	Add horizontal slider bar to top of draw area, slider vertical as well			1	Aaron	On hold: Discuss with Cindy and Pat	16
593	Bug with writing flat-file, the code is being too restrictive with its types. Need a standing rule to always promote bytes to 4-byte integers.			1	Aaron	in progress eta 7/2	8
1196	Overview plots - nodownload flag bugs 1.Catch error FILE_LINES: Error opening file. File: /Users/pcruce/data/themis/tha/11/fgm/0000/tha_fgmcal.txt No such file or directory. Execution halted at: THM_CAL_FIT 79 2. Catch Error - Expression must be a structure in this context: DAT. Execution halted at: SPLIT_VEC 41. 4. Catch error - Expression must be a structure in this context: TMP. Execution halted at: THM_UI_OVERPLOT 561.		Pat	1	Aaron		2
1318	I noticed a bug in the GetVarData method on the loaded data object. If it's called with the dlimits option and then called later on the same quantity but w/ the dlimits option set the original pointer will be replaced with an null pointer.	,	Aaron	1	Aaron		4
1065	Another bug is that when Apply is hit (continuing from the procedure in bug #1, separate e-mail), the fixed scaling (both limits) is updated in log space when I had asked for only the lower limit to be changed to center^2/(upper limit). This is not a difficult mod, but it seems to be in the draw object, and I do not know how to step through the code b/c the focus shifts away from the command line.	N	/lichael	1	Aaron		2
1562a	The Margin spinner behavior is too strict, as it enforces the validity of input on every keystroke instead of on Apply. This produces odd behavior when backspacing, etc. This also applies to the Row, Column, Row Span, and Column Span spinners	1	Bryan	4	Aaron		
1572	The # of Minor Ticks spinner isn't reset to a valid value after a non- numerical value is applied.	,	Aaron	4	Aaron		
1573	No message is given to the user within the gui if an overview plot fails due a date that is too early or too late (e.g. a date in 2001 or a week from today).	,	Aaron	4	Aaron		
2124	l 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	4	Aaron		
1267	We don't currently have any messages going to the status bar saying whether a rubber band operation succeeded or failed. It		Pat	4	Aaron		
1061	would probably be help to the user if we did. Legend Options Window. Determine requirements, design/implement window. For discussion: Once we have an options window implemented for the Legend it might be useful to			4	Aaron		40
806b	allow syncing of label text to legend text. Add marker titles			4	Aaron		16
	Would be nice to have a THEMIS color palette quickly available, maybe a dropdown menu with the 5 themis colors, or a check box to say use 5 default colors?			4	Aaron		4
24	Page Options (for printing) allow user to toggle landscape/horizontal ungray widget to allow user to modify canvas settings add window size to page settings template need algorithm to print a large canvas			4	Aaron	talk with Pat re algorithm to print large canvas	40
	Paren						
481a	Bryan We need to add a meta data structure to spectra data objects so that they y-axis for these plots will be automatically set to linear or logarithmic depending on the type of spectra.		Bryan	1	Bryan	etc 6/26	
2020	If requesting 1 hour of data using timespan, then load data using one of our load data routines. Recommend if there is a fix at the load cdf level and generic.	V	'assilis	1	Bryan	to be discussed at software meeting	
2013	Think about making 2D slices through distribution. See medical imaging code in IDL demo."	V	/assilis	2	Bryan	wait until July	
	2D first migrate code into crib		assilis	2	Bryan	in progress	
	2D with med imaging code 3D slices		assilis /assilis	2	Bryan Bryan		
	thm_load_state - phase II (consult with Ken)	v	GUUIIO	2	Bryan	Re-visit - streamline	
	For STATE CDF files, the following variable attributes should be defined, consistent with they way they are defined in the L2 FGM file: units, coordinate_system (consult with Jim L.)	V	'assilis	2	Bryan	Ask Vassilis - 1/2 time on slices and 1/2 time on other tasks?	
2027b	Once defined in the CDF, thm_load_state should take the values from the dlimits.cdf.vatt to set the metadata for the tplot variables: dlimits.data_att.units, dlimits.data_att.coord_sys	V	assilis/	2	Bryan		
2027c	For thm_load_state, the suffix gets added to support data, but support data is not transformed: if you call thm_load_state,	V	assilis/	2	Bryan		

2027d	in thm_load_state, the code to delete support data that was loaded for coordinate transformation should be just del_data, '*_state_temp' e. THC braid photoelectrons	Vassilis	2	Bryan		
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	Vassilis	2	Bryan		
2028	Pat, Vassilis and Ken) Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi,	Vassilis	3	Bryan		
2029	_gmag, _ask, _mom, _esa_pkt From Hannes	Hannes	3	Bryan		
2029a	Provided is the most common plot used by scientists that look at magnetic field data. Four panels Bx By Bz Bt and the position X Y Z as variables. Often the radial distance R is another variable. It would be great if someone enters e.g. tplot, 'tha_fgs_gsm' such a useful default plot would appear. I am currently not able to produce such a plot using tplot. Another useful plot would be instead of one trace per panel, 5 traces per panel. One for each spacecraft and 5 sets of positions as variables at the bottom. For example: tplot,'th?_fgs_gsm' could produce such a plot. Also some standard plots that combine ground and spacecraft data could be useful.	Hannes	3	Bryan		
	Notes from Vassilis: define keyword /positions default 'none', allow					
2029b	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 introduce the data in RE with keyword (one RE =6,478 kilometers ???). Like thm_load_fgm/pos_units= 'RE'. Also thm_load_state keyword out_coord = 'GSM', 'GSE',etc.	Hannes	3	Bryan		
2029c	If one loads fgm data from probe 'a' and let's say there are no data for the chosen interval. The variables tha_fgl and tha_fgl_gsm etc. should all be empty. It could be those variables still contain data from the previously loaded interval.	Hannes	3	Bryan		
2030	upgrade thm_load to work with probe assignments	Vassilis	3	Bryan		
2031	move functionality of thm_load_state2 into thm_load_state and	Vassilis	3	Bryan		
2032	delete thm_load_state2 Multiple enhancements concerning keywords, valid_names and	Vassilis	3	Bryan		
	thm_load routines	7 4555				
	Cindy					
962	When selecting data, L1 and L2 can be selected at the same time and the result was confusing. since the low-level commands can only load one or the other, the GUI interface should enforce the same restriction.	David Sibeck	1	Cindy	for group discussion	8
2152	Layout Options produced multiple errors then crashed upon startup after I imported a tplot variable composed of byte data. I could not open the window until the data was deleted. % TIME_STRUCT: Improper time input % TIME_STRING: Improper time input 1) Type conversion error: Unable to convert given STRING to Integer. 2) Detected at: THM_UI_WIDGET_TREE::ADDGROUP 585 3) Type conversion error: Unable to convert given STRING to Integer.Detected at: THM_UI_WIDGET_TREE::ADDGROUP 618 4) WIDGET_TREE: String expression required in this context: <int (0)="">. % Execution halted at: THM_UI_WIDGET_TREE::ADDGROUP 618 THM_UI_LAYOUT_OPTIONS 2130</int>	Aaron	1	Cindy		
2153	A crash occurred that shut down IDL when trying to open a THEMIS document. Some possible causes, a. R/W protection of the file? b. Incorrect file name/path? c. Second opening of the same file?	Pat/Cindy	1	Cindy	I was able to reproduce this consistently on my mac when opening the same file a second time Cindy	
1549	Get Spec - It would be nice if we organize some of the options in the top-right so that we can tell exactly when they are applied and how they interact. For example, we could desensitize the regrid option when it doesn't apply. Or perhaps organize the bases with a frame. Right now it almost looks like "normalize spectrum" is related to regrid, even though they are separate settings.	Pat	2	Cindy		8
2138	I just noticed a bug in exporting. The default resolution when exporting spectral plots is set too high. In the example I was looking at which contained one line plot and one spectral plot, this meant that a file that should have been 1.0 MB ended up 1.5 MB. It is a trivial fix	Pat	2	Cindy		4
2150	minor bug in both the clip and deflag routines. If the "flag" argument is set to zero the keyword_set() function does not recognize that the option was called and the routine continues as	Aaron	2	Cindy		
/2/2009	though the argument was never set. We've had this problem elsewhere whenever zero is a desired value for a keyword	6			20090702 Rev A - Themis Softw	

1500	Variable Ontions: The widest tree in variable antique in a	A	2	Cim al.		
1560 806b	Variable Options: The widget tree in variable options is not being updated with the state of the other trees. Add marker titles	Aaron	3	Cindy		16
2098	An IDL crib sheet has been provided that generates magnetic field and position data with the same resolution. Scientists very often like to have a set of dayfiles of magnetic field data and position. So the crib heet could be called inside a loop and for each day an output ASCII file could be produced. An option could be all 5 spacecraft merged with only one time column. Additionally a desired resolution could be another option	Hannes	4	Cindy	wait until end of July	32
	Hithesh					1
2014	Peter wrote code to reset ETC Kicker (1/8 or 1/9) after hang-up.	Peter	1	Hithesh		
2014c	First try to simulate in Modelsim. If unable to freeze ETC, then move to hardware simulation. If the problem is caused by Asynchronous signal (sun pulse), we won't be able to simulate the problem	Peter	1	Hithesh	Need to discuss with Michael Ludlam (6/19) what to do on flatsat. Talking to Actel about problem.	
2015	Logic Analyzer setup	Vassilis	1	Hithesh	waiting for reply from Dorothy, connection not working	
2018	Leftover 512 burst packets	Vassilis	1	Hithesh	Analysis of SDT test continues. Awaiting to reply from John B.	
2157	The ground-computed SC_POT to on-board computed SC_POT do not agree all the time. Jim McFadden thinks it is because of sampling jitter.	Jim McFadden	tbd	Hithesh		
2024	Jim L GUI Training for Stephen Mende	David	1	Jim L		
2130	FGM offset study/debug for European Folks	Vassilis	1	Jim L	FGM processing: You have the new tasks from the Tues/Wed telecons (to be prioritized); still investigating offset behavior following perigee passes (was waiting on fixed BAU sun angle data, so can look at this some more now).	
2146	Eclipse times from spin model user should be able to get some kind of feedback as to whether the spin phase and spin period are derived from "fresh" sun pulses or interpolated between eclipse start/end times. (From Edita G.)	FGM Team	1	Jim L		2
2159	Complete L1 File Definitions Document	David	1	Jim L		
2034 2034c	V03-L2 cdf STATE writing some code to fill in the position and velocity variables for GSE and GSM coordinates.	Vassilis Vassilis	1	Jim L Jim L	automation in progress	
2034d	I need to add support to thm_load_state (and any load/cal routines that call thm_load_state, e.g. thm_cal_fgm) for specifying which version V00, V01, V02, V03 should be used for cotrans and calibration	Vassilis	1	Jim L	in progress enough data for Hannes to start testing	
2034e	I need to enhance the spinmodel routines to use Hannes' spin phase correction, if present With these code changes in place, we can hopefully make some kind of comparison between FGM data calibrated/cotrans-ed with V02 vs. V03 state to verify that the V03 attitude and spin phase corrections are working properly.	Vassilis	1	Jim L	In progress won't happen before 5.1 is released, so this work will occur in a private branch instead of the trunk. Testing of V03 spin axis orientation (by Hannes) can start now, then we'll do another round of tests when the spinmodel code is modified to use the V03 spin phase corrections.	
2034f	revised QA script for STATE (path finder for other scripts to be revised later)	Vassilis	1	Jim L	Still in progress. V03 missing variables are fixed. QA scripts for thm_load_state in progress, but probably won't be ready for 5.1 release. Waiting for Hannes to complete his testing.	
2035	Split L1 ESA (using Thomas's routine) in master ESA data cdf	Vassilis	1	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 climit structure (probably a better solution, but might break existing code).	Vassilis	2	Jim L	Issue Warning and not to let it fail. Clarification Needed	

2038	STATE Web Page (s)	Vassilis	2	Jim L	revew web pages	
2039	bad timing sun pulse times (early January 2009)	Vassilis	2	Jim L	Clarification needed	
2040	L1 Data Processing History Info: SCM, EFI, STATE	Vassilis	2	Jim L	Olarinoadori Hoodea	
2041	thm_load_state out_coord velocity calculations wrong	Vassilis	2	Jim L		
2042	FGM range changes in the mid packet. Post Proc maybe a solution	Vassilis	2	Jim L		
	to eliminate the spike. BugzID=44. Bfield mid-packet jumps.					
2043	Refactor repeated CDF library code in CDF processing tools	Vassilis	2	Jim L		
	BugZid=50					
2046	Create a more efficient & productive prototype QA Instrument	Vassilis	2	Jim L		
	Command Line Script - first template (s) functional blocks then					
	scripts for FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag, State, SST, ESA					
2047	Separate E and B timestamps for spin fits: a) make a revised V02	Vassilis	2	Jim L		
20	master CDF with E and B separated b) change thm_load_fit to	racomo	_	···· -		
	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					
2047a	FGS sample times and values, showing repeated timestamps.	Vassilis	2	Jim L		
	BugzID=113 (BugzID=67 must be done first)					
2047b	Repeated timestamps and gaps in spin fit data BugZid=113 (#67	Vassilis	2	Jim L		
2077	may fix this one as well). Non Monotonic timestamps. BugzID=72	Vassilis	2	Jim L		
2011	Non Monotonic timestamps. BugziD=12	Vassilis		JIIII L		
2078	bau_sunpulse_met assumes x86 endiannes (BugzID=13)	Vassilis	2	Jim L		
2080	Phantom packets" cause non-monotonic distribution times.	Vassilis	3	Jim L		
	BugzID=25, low priority.					
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	Christine	3	Jim L		
200.	coordinates. ct=time_double('2008-02-16/04:50:00')	000		···· -		
	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, sgrt(x^2+v^2+z^2)=1					
	know that their magnitude should equal 1. sqrt(x^2+y^2+z^2)=1					
	know that their magnitude should equal 1. sqrt(x^2+y^2+z^2)=1					
2048	know that their magnitude should equal 1. sqrt(x^2+y^2+z^2)=1 Jim M	Vassilis	1	Jim M	on March 8, 2008	
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0.10=						
2125	I received an error in the smoothing function with the no_time_interp keyword set (through the gui). I was using mag 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 THM_UI_DPROC_PANEL_EVENT LogUI\THEMIS_GUI\themis\thm_ui_new\panels\thm_ui_dproc_panel.pro(123)> THM_UI_NEW_DPROC C:\GUI\THEMIS_GUI\themis\thm_ui_new\right \utilities\thm_ui_new_dproc.pro(179)> CALL_DPROC C:\GUI\THEMIS_GUI\themis\thm_ui_new\right <c:\gui\themis_gui\themis\thm_ui_new\right< td=""> Loaded_data_dproc.pro(104)> ERROR_MESSAGE <c:\gui\themis_gui\themis\thm_ui_new\right< td=""> Last IDL Error: Unable to concatenate variables because the dimensions do not agree: ARRAY. % Execution halted</c:\gui\themis_gui\themis\thm_ui_new\right<></c:\gui\themis_gui\themis\thm_ui_new\right<>	Aaron	1	Jim M		
	at: SMOOTH_IN_TIME 153					
2062	C:\GUI\THEMIS_GUI\ssl_genera\misc\smooth_in_time.pro Alberta - At the moment the data files are from Dawson (daws), Churchill (fchu), Island Lake (isll) and Fort McMurray (mcmu). I will add Rabbit Lake and Taloyoak at some time but we have some issues with mag pointing at those 2 sites. If you recall, the agreement between Ian and Vassilis was that this data wouldn't be copied to become part of a mirrored archive like the existing data we provide. Instead, each file would be obtained from this site each time it is requested (using curl or some such). This means we can use our own logs to monitor data usage. Themis Software to be able to retrieve from Alberta	Vassilis	2	Jim M		
2085	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 into "VX','VY','VZ'. So that the components are easier to distinguish.	Vassilis	2	Jim M		
2085c	Modify ytitles on esa eflux and sst eflux so that they do not collide. (Insert 'IC's or change setting to make tplot do this automatically).	Vassilis	2	Jim M		
2085d	Set the scales on the zoomed out(24 hr) plots so that they are not autoscaled. Information on appropriate yranges should come from Vassilis.	Vassilis	2	Jim M		
	Change labels on temperature lines so that they are done in different colors (and possibly different linestyles).	Vassilis	2	Jim M		
2085f	If necessary, Update the plot key so that it reflects any of the changes above. It'd probably be best to give this task to me, since I've done the past modifications of the plot key.	Vassilis	2	Jim M		
2086	Orbit Plot on Summary Plot web page - on the right side, 3 plots vertically, each overview plot there would be orbit panels (coordinate with Harald).	Vassilis	2	Jim M		
2087	Administrator's Guide	Vassilis	2	Jim M		
2088	Themis Developers Guide thm_load_mom: for quantities like velocity, the coordinate system isn't stored in the meta data, and none of the units are stored in the place we normally try to store them (from Pat - Vassilis concurs) Will take a look.	Vassilis Vassilis	2	Jim M Jim M		
2089	Thm_fgm_overviews currently loads the data out of the fit file. It should probably load the data out of the fgm file. Only needs to load from one data source. Jim M thinks the thm_load_fit can be deleted	Vassilis	2	Jim M		
2090	that streamlines the generation of gmag stackplots and a crib to show how to do this. (< than a day)	 Vassilis	2	Jim M		
2091	Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission	Vassilis	2	Jim M		
2092	thm_load_mom changes - reconcile mods with Davin at an appropriate time.	Vassilis	2	Jim M		
	AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: minor nuisance	Vassilis	3	Jim M		
2094	Overview plot change: mode bar seems thick Mosaic Processing - permanent script needed	Vassilis Vassilis	3	Jim M Jim M	nothing we can do easily	
2030		v assilis	J	JIIII IVI		
2099	Michael npot computation	Jim	1	Michael		
		McFadden				
2099a	Formula	Jim McFadden	1	Michael	McFadden has found bugs in the pipeline. I am on hold until he works those out (he is working with Bonnell and Mozer).	
2099c	McFadden requires more information on the bias changes from John as of 6/5	Jim McFadden	1	Michael	J.B. to send Jim McFadden info	
2099d	Integrate Nishamura's Npot routine as an option into THM_SCPOT2DENS	Vassilis	1	Michael	On Hold	
2100	EFI calibration	John	1	Michael		
2100d	DC offset between 4sdo and 2sdo in boom plane	John Bonnell	3	Michael	Which is better? Assigned to J. B. (low priority).	
7/2/2000	4.47.004	201111011			20000702 Pay A. Thomis Softwa	

2100h	Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?).	John Bonnell	3	Michael	On Hold	
2100k	"Case-by-case" calibration parameters ("short-term" high accuracy	John	2	Michael	On Hold	
2100n1	corrections). LASP does this, but needs integration. better define the behavior of THM_LOAD_EFI if multiple coord are specified.	John Bonnell	1	Michael	email sent to John. Waiting for a response.	
2100n2	add an example to the EFI crib demonstrating the behavior.	John Bonnell	1	Michael	email sent to John. Waiting for a response.	
2100p	Modify THM_CAL_FIT to treat efs datatype - Install E12/E34 conditional based on th?_fit_code TPLOT variable. If E12 switched to E34 software needs to be revised to handle	John Bonnell	3	Michael	геаринае.	
2100r	Add the DATATYPE kw to KYOTO_AE_LOAD , and load only AE data by default	John Bonnell	3	Michael	Check with Andrea if still needed	
2100s	Get the downloader (KYOTO_AE_DOWNLOAD based on the new version of FILE_HTTP_COPY) working	John Bonnell	3	Michael	Check with Andrea if still needed	
2101	THM_SPINFIT simulates the on-board spin fits	John Bonnell	2	Michael		
2101a	Useful for investigating why the ground and on-board fits are different. Need wrapper for multiple TPLOT vars.	John Bonnell	2	Michael	in progress	
2102	FBK frequencies	John Bonnell	2	Michael		
2102c	Make sure that bin center assignment from L2 works with any changes that Jim M. makes	John Bonnell	2	Michael	Talk to Jim M on 7/13	
2102d	John wants to calibrate by signal source – thm_cal_fbk	John Bonnell	2	Michael		
2103	EAC offsets	John Bonnell	2	Michael	John has taken AC coupled data -> he will get me the offsets and the switch-over times.	
2104	L2 CDF	John Bonnell	2	Michael	J. B. to talk to Vassilis about expectations for users. Michael to find out what the programming task is.	
2105	EFI Calibration Document Pat	David	2	Michael	programming task to	
2006 1303	Print - Step 3) I can create eps files, and verify thet the .eps file is ok using ghostview or ps2pdf, but these do not print out. The 2 copies option does not seem to work. Step 4) The PCL4 file has only 35 bytes and does not print. The PCL5 fileis larger, but does not print. boundary normal coordinates. BugzID=59. While I was documenting the draw object I noticed a bug in the way variables are drawn. The routine that calculates the space variables occupy, ignores layout row/column, so if variables are in the left column and right column, it will overestimate the amount of space that variables take and draw the panels with too much space. I'm not sure that this is might priority because we aren't putting a lot of effort into deal with multi-column layouts. But bugs like this are probably replicated in a number of places. Specifically, code that: (1) assumes panels will be lined up in a single column. (2) assumes that panel index will correspond to display position. Will have problems.	Pat Pat	1 1 1	Pat Pat Aaron Pat	(step 4, not fixable) for discussion with Jim M waiting to talk to Vassilis Aaron completed Part 1 - Part 2 to Pat	4
	We may want to put a note to test this in the next phase of testing, so that we can identify all the problems in this set. Another example: The variable panel assumes (2), so that if panels are arranged out of order it selects the incorrect default when opened.					
	J. Kissinger's cotrans routine (from GSE to SSE coordinates)	Vassilis	2	Pat	waiting for info from Vassilis	
2009	Be able to plot ASI & GMAG observatory positions and GOES data on the same plots that are generated by THEMIS Station keyword executing thm_crib_trace.pro	Pat	2	Pat	Wait until Vassilis comes back in July	
2010	Tplot enhanced crib - Davin should be involved and the cribs should not be too overwhelming. Possibly multiple cribs by functions	Pat	3	Pat	waiting for Davin for info about crib sent to him	
2063 964	Make A-E Index an L2 cdf. I noticed a bug with the x-grid thickness. For some reason if I use a style like dotted and increase the thickness, the thickness doesn't appear to increase properly for the portion of the grid near the axis itself. This is a pretty minor aesthetic thing, so I don't think it will be a big deal if we put it in the next phase.	Pat Pat	3 4	Pat Pat	in progress	

					1	
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. (tba)	Aaron	4	Pat	animinally and after 1: 04 h	
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	4	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	
1555	A conversation here brought up what should probably be considered a feature. If only minor grids are on, gaps appear in the grid lines, because the grids are not drawn on major ticks. After talking about it, we were thinking a better rule would be to only maintain those gaps if major grids are turned on.	Pat	4	Pat	,	
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	4	Pat		
2155	The manage data window crashes when I try to load ASI data into the gui. Two pop-up messages are produced prior to the crash notifying the user that the data has the wrong dimensions to be loaded (this should happen), the first of the messages below was from one of those pop-ups. Traceback Report from THM_UI_LOADED_DATA::ADDDATA: THM_UI_MANAGE_DATA <c:\gui\themis_gui\themis\thm_ui_new\panels\thm_ui_manage <c:\gui\themis_gui\themis\thm_ui_new\panels\thm_ui_manage="" data.pro(213)="" data.pro(391)="" thm_ui_manage_data_event=""> Traceback Report from THM_UI_MANAGE_DATA_EVENT: <c:\gui\themis_gui\themis\thm_ui_new\panels\thm_ui_manage data.pro(391)=""> % Variable is undefined: SUCCESS.</c:\gui\themis_gui\themis\thm_ui_new\panels\thm_ui_manage></c:\gui\themis_gui\themis\thm_ui_new\panels\thm_ui_manage>	Aaron	2	Pat	quick fix that pat has already taken care of.	
1564	tplot does not allow names with spaces or "*?[]\" characters, we may want to exclude these characters from names, as well. Pretty much all of our text-input fields for variable names or suffixes don't check for these characters, but if we allow them into our variable names, it breaks all of our tplot interactions in the instances when these characters are in a name. Specifically, export to tplot doesn't work and most of our data processing operations don't work.	Pat	4	Pat		
1576	I was thinking it would be nice if we enabled resize on the overview plot key window. That way on larger monitors, users could extend the window so that they can see the whole key at once.	Pat	4	Pat		
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	4	Pat		
1121	Overview plots - need to figure out how to handle memory issues with tplot variables.	Bryan	4	Pat		
1311	Add capability to go into landscape mode (page pull down menu)	Pat	4	Pat	related to aarons task 24	8
808	IDL Format Code -currently have no way to insert a different font in the middle of a string (e.g. adding a symbol to a string in NewTimesRoman)		4	Pat		40
1301	The draw object takes a long time to render spectrograms when they are very zoomed in. It should be possible to put a special case in that would make this work more quickly.	Pat	4	Pat		
	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.					