Task #	Task Description	Reported By	Pri	Assigned To	Notes	Estimate (hrs)
2126	To be Assigned or Discussed State Vector -> coord keyword (keep or remove?) 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		
2067	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 (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.	Olivier	1	tbd		
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. Add a new feature that allows the user to delete variables from the	Pat Aaron	tbd	tbd		
2.0.	data processing window (avoids having to open the manage data window every time)	7.0.011				
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		
1540	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.	Pat	tbd	tbd		
1541	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		
1544	Manage Data: The manage data fields should be made tabable.	Aaron	tbd	tbd		
1550	Calculate: When saving your calculations to a file the extension is not automatically included requiring the user to add it manually later.	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		
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	tbd	tbd		
1545	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		
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	tbd	tbd		

4504	tplot does not allow names with spaces or "* ? [] \" characters,	D-4	4ll	411	di-d
1564	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	tbd	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	
1560	Variable Options: The widget tree in variable options is not being	Aaron	tbd	tbd	
1562a	updated with the state of the other trees. 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	Bryan	tbd	tbd	
1572	The # of Minor Ticks spinner isn't reset to a valid value after a non- numerical value is applied.	Aaron	tbd	tbd	
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	tbd	tbd	
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	tbd	tbd	
1577	I get a crash whenever I try to import data from the manage data panel. It pops up an error: "Unable to verify data for: ", but no name is listed, which suggests that it is being passed an empty string. The error follows: Traceback Report from THM_UI_VERIFY_DATA: \$MAIN\$ THM_GUI_NEW_EVENT //home/pcruce/IDLWorkspace/themis/thm_ui_new/thm_gui_new.pr o(260)> THM_UI_MANAGE_DATA XMANAGER XMANAGER_EVLOOP_REAL_MODAL /usr/local/itt/idl70/lib/xmanager.pro(506)>THM_UI_MANAGE_DATA_EVENT THM_UI_MANAGE_DATA_IMPORT THM_UI_VERIFY_DATA ERROR_MESSAGE %Compiled module: WIDGET_TREE_MOVE.	Pat	tbd	Pat	
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
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	tbd	tbd	
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	tbd	tbd	
2132			\bot		
2133 2134					
	General Review EFI web pages on beta site	David		John B	
	Create web pages for FFT, FBK and FIT	David		Chris Cully	target 7/3
	Enhanced SST and MOM Instrument Web Pages	David		Davin	
	EFI Wiki Pages	David	-	John B	
	SST Wiki Pages New Server Installation	David Vassilis	+	Davin Jon L	
	Greenland data total magnetic field is only about 250 nT even if no	Vassilis			Waiting for student to have time.
	baseline subtracted (from Harald). Review Morrections to the EFI Web pages from Amanda	David			

	արչերի offsets for tail season	Vassilis	1	Hannes	in progress 90619 - Themis Software Task Priorities Rev
	Hannes				
2097	Create checksum files for gmag (completed), ASI then Probe files	Vassilis	3	Tim	
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	
2072	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.
	Greenland Processing full resolution ASI data disks (Apr-Nov 2008).	Vassilis Vassilis	1	Tim Tim	On Hold for IT to complete backup.
	Alberta Greenland	Vassilis Vassilis	1 1	Tim Tim	6/12 Tim will ping Erik again.
070a	Augsburg (MACC's)	Vassilis	1	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
2070	Support gmag data remote sites	Vassilis	1	Tim	reconfigure server first . UCLA will need to supply SSH key - RSYNC Key
2069c 2069d	France UCLA – mirror site set-up	Vassilis Vassilis	1	Tim Tim	(Rumi - not always up to date for gmags) UCB sent 08T UCLA loaded 06T. Four bricks sent to UCLA - UCLA must
069b	Austria	Vassilis	1	Tim	
2069 069a	Support Mirror Sites Japan (ISAS)	Vassilis Vassilis	1	Tim Tim	
2068	Data Recovery	Vassilis	1	Tim	Awaiting info from Jon
	Tim				
	When L2 ASI available Quality Flags and History Status?				
	L2 ASI cdf's		L		
	following month. Summary Plots through March 2008.				
	task only once a month somewhere around the 10th of the				
	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				
	Overview plots for web site done though 4/30/2009.				, , , , , , , , , , , , , , , , , , , ,
	Mosaic reprocessing post-February 2008 (Full Resolution).				Process full resolution for March 1-15 2008, Jan 15 2009 and onward. (Jim M)
	transmitted				
	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				
	The THEMIS movies are now up to date and finished through the				2000
	Keograms being updated.				Current status ASK through October 5 2008
	Harald				
	Revise the Data Products Web page and send to Amanda	David		David	
	Clean-up the power ripples from the FGM data.	Krishan			awaiting programmer
	completed to use as template.	vassilis		Andreas	
	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	Vassilis		Andross	
	about the time intervals when the data are on, say, engineering level? This data, though valuable in many respects, may be confusing if interpreted as science data. To provide such information, it is possible, for				
	data are in the same stream. From the data description, only maneuver flag state_man is provided. Do you provide information				
	Link to Plots Data contain engineering, deployment, maneuver, and science	Vassilis Vassilis		Vladimir Vladimir	
	Calibration - send sample to Vassilis and David Sibeck	Vassilis		Vladimir	
	SST, ESA and EFI Wiki pages - initial entries	Vassilis		Vladimir	
	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.				
	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,			Amanda	

2074	V03 STATE	Vassilis	1	Hannes		
2074a	Test FGM with new V03 STATE cdf	Vassilis	1	Hannes		
2074b	See email concerning parms ("thx_sci_mode", "thx_hsk_issr_mode") sci_mode - know fast survey, issr_mode - when IDPU thinks fast survey	Vassilis	2	Hannes		
2074c	quality flag for FGM data	Vassilis	2	Hannes	talk to Uli	
2075	Spin Axis offsets – Improve the new spin axis offsets calibration 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	Vassilis	1	Hannes		
2082	Spin modeling during shadows BugZid=43 Aaron	Vassilis	3	Hannes		
2033 2033a	VMO file generation One variable change to ASI files and possibly the whole repository	David David	1	Aaron Aaron	awaiting answer from Jan	
2033b	SCM and EFI L2 variables	David	1	Aaron		
2033c 2125	L2 STATE (?) 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-C:\GUI\THEMIS_GUI\themis\t hm_ui_new\panels\thm_ui_dproc_panel.pro(123)> THM_UI_NEW_DPROC <c:\gui\themis_gui\themis\thm_ui_new\tilities\thm_ui_new_dproc.pro(179)=""> CALL_DPROC <c:\gui\themis_gui\themis\thm_ui_new\utilities\thm_ui_new_dp 57)="" roc.pro(=""> THM_UI_LOADED_DATA::DPROC <c:\gui\themis_gui\themis\thm_ui_new\objects\thm_ui_loaded_dtata_dproc.pro(104)=""> ERROR_MESSAGE <c:\gui\themis_gui\themis\thm_ui_new\utilities\error_message.pro(256)=""> Last IDL Error: Unable to concatenate variables because the dimensions do not agree: ARRAY. % Execution halted at: SMOOTH_IN_TIME 153 C:\GUI\THEMIS_GUI\ssl_general\misc\smooth_in_time.pro</c:\gui\themis_gui\themis\thm_ui_new\utilities\error_message.pro(></c:\gui\themis_gui\themis\thm_ui_new\objects\thm_ui_loaded_dtata_dproc.pro(></c:\gui\themis_gui\themis\thm_ui_new\utilities\thm_ui_new_dp></c:\gui\themis_gui\themis\thm_ui_new\tilities\thm_ui_new_dproc.pro(>	David Aaron	1	Aaron Aaron		
2127	When the smooth() function is called for the y-data the width is applied to each dimension. This causes the function to fail when it's applied to the second dimension, usually containing 3 elements, since the width is almost always larger. We could solve the problem by either looping over each row in the array or by passing the smooth function a vector specifying the width of the extra dimension. It's possible the second solution could have undesirable effects on the data, but that should be straightforward and easy to test for.	Aaron	1	Aaron		
	% SMOOTH: Width must be nonnegative and smaller than array dimensions: <double (="" 99.000000)=""></double>					
2128	The '-1' applied on the same line to the n_elements() call ends up being applied to the user specified width as well (e.g. in the error message for the first bug the number is 99, it should have been 100). This can be fixed simply by adding parentheses.	Aaron	1	Aaron		
1404	Making data active, then selecting clear active, then trying to make data active again(without reselecting), does nothing. It should add the data quantities that are still highlighted in the tree. This probably a result of the panel maintaining a list that duplicates the widget-state rather than querying the widget state as needed, and can probably be most reliably fixed by just replacing this list with queries to the widget tree.	Pat	1	Aaron		
227b	Variable options - 2)After removing a variable the '-' delete button remains sensitive yet no variables are selected and clicking it does nothing. Either the button should be desensitized or another trace (first or adjacent maybe) should be selected after a delete.		1	Aaron		
551	Change a setting, then check "set all", then click Apply (as opposed to checking "set all", then changing a setting, then clicking Apply). The change should still propagate to all panels. This is probably a phase II bug.		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
1296	Analysis: Include keywords - analysis of needed changes	Vassilis	1	Aaron	in progress	40

White I visa documenting the driew object in noticed aboy in the way Pet 1 Aaron 4							
1097 Axis Options: 1) Insufficient precision for Unix times in bound autoscale min/max. 2) The first time I tried setting the autoscale min/max. 1 the first time I tried setting the autoscale min/max. 1 the first time I tried setting the autoscale min/max. 1 the first time I tried setting the autoscale min/max. 1 think this is because none of the data had an X axis value in that range. If so, that should be checked for, and result in a warning dialog rather than a status but message. 9 Tiplating Contint: Span not calculated correctly for logarithmic scales, for a time axis the calculated pain is way one days. It looks like the right be using log(max-min) instead of log(max)-fog(min). 593	1303	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. 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	Pat	1	Aaron		4
ypes. Need a standing rule to always promote bytes to 4-byte integers. 1196 Overview plots - nodownload flag bugs 1.Catch error FILE_LINES: Pat 1 Aaron 2 Error opening file. File: UJess-lypcruce/data/themis/tha/11/gm/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. 1318 I noticed a bug in the GetVarData method on the loaded data object. If it's called with the dilmits option and then called later on the same quantity but which dilmits option and then called later on the same quantity but when Apply is hit (continuing from the procedure in bug 4f1, separate e-maily, the fixed scaling footh 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. Bryan 2002 Sit-in on GEM PPT Slide Reviews Bryan 2011 It looks like there's a bug that limits speciplot's ability to handle short timespans of data when setting the DATAGAP. Until we can get a fix out, you should be able to get the output you want by using the Voptons command to set the overlay to 1 options, that, ftp, ??.", 'overlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'that_ftp, ??.", 'overlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'that_ftp, ??.", 'overlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'that_ftp, ??.", 'overlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'that_ftp, ??.", overlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'that_ftp, ??.", overlay,' 1. then you might have too reset the color bar with the		Axis Options: 1) Insufficient precision for Unix times in bound autoscale min/max. 2) The first time I tried setting the autoscale min/max, I used 0 and 20. When I applied the change, I got a cryptic status bar message "Draw Object Error: Updating panels". I think this is because none of the data had an X axis value in that range. If so, that should be checked for, and result in a warning dialog rather than a status bar message. 3) Floating Center: Span not calculated correctly for logarithmic scales; for a time axis the calculated span is way too large. It looks like it might be using log(max-min) instead of log(max)-log(min).	Pat				
Error opening file, File: // Users/porue/data/themis/tha/11/gm/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 in TMP. Execution halted at: THM_U_OVERPLOT 561. 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 will be replaced with a null pointer will be replaced with an null pointer will be replaced with a null pointer will be replaced with a null pointer will be replaced with an null poi	593	types. Need a standing rule to always promote bytes to 4-byte		1	Aaron		8
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. 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. Bryan 2002 Sit-in on GEM PPT Slide Reviews 2021 It looks like there's a bug that limits specplot's ability to handle short timespans of data when setting the DATAGAP. Until we can get a fix out, you should be able to get the output you want by using the toptions command to set the 'overlay' to 1 options, 'that ffp.??', vorlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'tha_ffp.??', vorlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'tha_ffp.??', vorlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'tha_ffp.??', vorlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'tha_ffp.??', vorlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'tha_ffp.??', vorlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'tha_ffp.??', vorlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'tha_ffp.??', vorlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'tha_ffp.??' vorlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'tha_ffp.??' vorlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'tha_ffp.??' vorlay,' 1. then you might have too reset the color bar with the zlim command: zlim, 'tha_ffp.?' vorlay,' 1. the	1196	Error opening file. File: /Users/pcruce/data/themis/tha/l1/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:	Pat	1	Aaron		2
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2021 Sit-in on GEM PPT Slide Reviews David 1 Bryan 2021 It looks like there's a bug that limits specplot's ability to handle short timespans of data when setting the DATAGAP. Until we can get a fix out, you should be able to get the output you want by using the \(\text{options} \) command to set the 'overlay' to 1 options, \('tha_ffp_??_**', 'overlay', 1. then you might have too reset the color bar with the zlim command: zlim, 'tha_ffp_??_*'', \(10e-14, 10e-5 \) 1248 D Power Spectrum doesn't seem to work on thg_pseudoAE. The dproc status bar returns "thg_pseudoAE Not processed." The seems to be some problem with loading the resulting tplot variable into the GUI as the console reports: STORE_DATA(177): Creating tplot variable: 243 thg_pseudoAE_dpwrspc STORE_DATA(76): "" not a valid handle name This also happens with tha_peif_density. 2025 thm_part_moments2 so that it properly handles single-angle energy spectra when pitch/gyrophase constraints are requested by	1065	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.	Michael	1	Aaron		2
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	2025	energy spectra when pitch/gyrophase constraints are requested by	Vassilis	1	Bryan	in progress	

481a	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 legarithmic depending on the type of spectra.	Bryan	1	Bryan		28
2020	logarithmic depending on the type of spectra.	Vassilis	1	Dmion		
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.	vassilis	'	Bryan		
2026	Get Spec - 1) Step 11,b,i: Throws a CL error (after the popup): Traceback Report from THM_UI_PART_GETSPEC_OPTIONS_EVENT: Array subscript for PASPEC must have same size as source expression. Execution halted at: THM PART MOMENTS2 1070	Vassilis	1	Bryan		
2013	Think about making 2D slices through distribution. See medical	Vassilis	2	Bryan	wait until July	
20132	imaging code in IDL demo." 2D first migrate code into crib	Vassilis	2	Bryan	in progress	
	2D with med imaging code	Vassilis	2	Bryan	in progress	
	3D slices	Vassilis	2	Bryan		
20130	thm_load_state - phase II (consult with Ken)	Vassilis	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	Vassilis	2	Bryan	No view executioning	
2027b	file: units, coordinate_system (consult with Jim L.)	Vassilis	2	Dryon		
20270	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	vassilis	2	Bryan		
2027c	For thm_load_state, the suffix gets added to support data, but	Vassilis	2	Bryan		
	support data is not transformed: if you call thm_load_state,					
	coord='gse', suffix='_gse', /get_support_data only the pos and vel					
	get transformed, but all get the _gse suffix.					
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	Vassilis	2	Bryan		
	at input, to include transformation of spinaxis attitude, need to		_	,		
	determine keyword switch, implement the rotation of the spinaxis					
	elevation/azimuth from gei to arbitrary coordinates (consult with					
	Pat, Vassilis and Ken)					
2028	Variable units – generic solution - thm_load_spin, _state, _hsk,	Vassilis	3	Bryan		
_0_0	_sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi,			2.,		
	_gmag, _ask, _mom, _esa_pkt					
2029	From Hannes	Hannes	3	Bryan		
2029a	Provided is the most common plot used by scientists that look at	Hannes	3	Bryan		
	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,					
2029b	The level 2 CDF files at http://themis.ssl.berkeley.edu/data_download.shtml should contain position in various coordinate systems as well. Preferably in the same resolution as the data. Otherwise Scientists need to get the position from another source. Notes from Vassilis: option to introduce the data in RE with keyword (one RE =6,478 kilometers ???). Like thm_load_fgm /pos_units= 'RE'. Also thm_load_state keyword out_coord = 'GSM', 'GSE',etc.	Hannes	3	Bryan		
2029c	If one loads fgm data from probe 'a' and let's say there are no data for the chosen interval. The variables tha_fgl and tha_fgl_gsm etc. should all be empty. It could be those variables still contain data from the previously loaded interval.	Hannes	3	Bryan		
2030	upgrade thm_load to work with probe assignments	Vassilis	3	Bryan		
2031	move functionality of thm_load_state2 into thm_load_state and delete thm_load_state2	Vassilis	3	Bryan		
2032	Multiple enhancements concerning keywords, valid_names and thm_load routines	Vassilis	3	Bryan		
	Cindy					
2000	Prep for GEM - sort out projector, PPT slides, make trip	David	1	Cindy		40
2022	Train Jim L to give GUI Training at SSL	David	1	Cindy		
_	·		_			

64	Analysis Panel - Need to provide a way for users to select a new variable name when data is manipulated. A default name will be provided, but need an editable text box for user to enter a different name. Loaded Data - add suffix to variable names		1	Cindy		8
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	Aaron	1	Cindy		
964	I noticed a bug with the x-grid thickness. For some reason if I use a style like dotted and increase the thickness, the thickness doesn't appear to increase properly for the portion of the grid near the axis itself. This is a pretty minor aesthetic thing, so I don't think it will be a big deal if we put it in the next phase.	Pat	1	Cindy		3
1510	If you get an invalid marker error during marking, with either track one or track all turned on. (For example by starting/ending a marker outside of a panel), the vertical/horizontal bars don't get turned back on, after marking is complete.	Pat	1	Cindy		3
1220 1434	The panel that the selected trace is on should be selected. Markers: If I get a warning because I ctrl-click without dragging.(ie "Could not create marker because marker had insufficient width") It will treat the CTRL as if it is off, even if I leave it pressed. We might want to fix this, although it doesn't appear to be doing anything too harmful.	Bryan Pat	1	Cindy Cindy		3
1066	Layout Options: I noticed that if the user has 'Show Data Components' checked but they forgot to or don't realized they must select both X and Y variables then no message is given to inform them. This may be confusing for the user as they'll have no way of knowing why the 'Add ->' button isn't working in such a case.	Aaron	1	Cindy		1
1304	This is not super important, but I noticed that the "draw between points" option in the line options window offers the same units regardless of whether the quantity being plotted is a time or not. For example, If I plot state_pos_x vs state_pos_y, I can go into the line options, and set "Do not draw between points if separated by more than 1 hour", and instead it will not draw between points if the separation is more than 3600 km. To fix, The convention we've adopted on the other panels, is to show the time related options(seconds,minutes,hours,days) when isTime is on, and to show the non time related options when it is off(<none>), rather than the full list (seconds,minutes,hours,days,<none>)</none></none>	Pat	1	Cindy		1
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		8
703	Suggestions: The plot for a given panel disappears if logarithmic scaling is chosen for a fixed axis with negative limits. No error is thrown and the plot reappears when the values or scaling are changed. In the future we may want to send a notification to the user as to what happened.		1	Cindy		2
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	3	Cindy	wait until end of July	32
2014	Peter wrote code to reset ETC Kicker (1/8 or 1/9) after hang-up.	Peter	1	Hithesh		
2014a	Put together a simulation of ETC VHDL Design.	Peter	1	Hithesh	Working with Robert and may need MODELSIM software.	
2014b	learn VHDL Look at the ETC VHTL programs and understand	Peter	1	Hithesh	in progress and almost complete	
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 and speak to Derron (6/19-6/22) on using sun pulse generator to recreate the problem on flatsat.	

2015	Logic Analyzer setup	Vassilis	1	Hithesh	Connections not complete yet. Ran it remotely. Works, but connections have to be checked . ETU needs to be restarted/checked. FSW booted to V2.1.
2016	Review FSW Specifications document for v5 changes. Need to add documentation on external memory dump.	Peter	1	Hithesh	Finished and sent to Peter
2017	ESA – investigate invalid configs from Survey to burst mode in IDPU scripts.	Vassilis	1	Hithesh	Task cancelled
2018	Leftover 512 burst packets	Vassilis	1	Hithesh	Will have to talk to John or Deron at Ops to get more details.
2019	Assisting Deron on EFI sensor diagnostics test		1	Hithesh	lo germore details.
	Jim L				
2023	Install latest release on Stephen Mende's Mac	David	1	Jim L	
2129 2024	GUI Script Training from Cindy GUI Training for Stephen Mende	David David	1	Jim L Jim L	
2130	FGM offset study/debug for European Folks	Vassilis	1	Jim L	
2130	Research Data Permissions with Tim	Jim L	1	Jim L	
2123	Reprocess L0->L1 BAU cdf's due to bug fix	Jim L	1	Jim L	On hold for Jon Loran. Must reprocess all
123	Treprocess 20-221 BAO cars ade to bug fix	JIII L	'	JIIII L	data.
2034	V03-L2 cdf STATE	Vassilis	1	Jim L	auto.
2034	V03-L2 cdf STATE -attribute structure	Vassilis	1	Jim L	need code for missing variables -in
2004		vassiiis		OIII L	progress. After some discussion with Hannes, we decided that the attribute structure for the new spin phase correction variable is incorrect.
2034c	writing some code to fill in the position and velocity variables for GSE and GSM coordinates.	Vassilis	1	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 2076	Split L1 ESA (using Thomas's routine) in master ESA data cdf SM coord transformation in thm_cotrans does not work: fixing that would be too drastic a change for a patch release, because it might break a lot of existing code. The issue is: if the in_coord parameter is not explicitly specified, and the dlimits structure also does not specify the coordinate system, do we want to try to figure it out from the "in_suffix" argument (current behavior, doesn't work for SM coords), or just fail with a message that a coordinate system must be specified with either the in_coord argument or dlimit structure (probably a better solution, but might break existing code).	Vassilis Vassilis	1 2	Jim L Jim L	Send David Sub Task List by 6/26 Issue Warning and not to let it fail. Clarification Needed
2036	GOES 10-12 Test data: h. update labels (Howard's request - minor tweak)	Vassilis	2	Jim L	
2038	STATE Web Page (s)	Vassilis	2	Jim L	
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	
2041 2042	thm_load_state out_coord velocity calculations wrong FGM range changes in the mid packet. Post Proc maybe a solution to eliminate the spike. BugzID=44. Bfield mid-packet jumps.	Vassilis Vassilis	2	Jim L Jim L	
2043	Refactor repeated CDF library code in CDF processing tools BugZid=50	Vassilis	2	Jim L	
2044	L0 to L1 processing: look ahead to the next packet before processing the current packet. BugzID=67	Vassilis	2	Jim L	
2046	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,	Vassilis	2	Jim L	
14/200	gGnggp S tate, SST, ESA	8	1		20090619 - Themis Software Task Priorities Rev

	(in CDAWeb) seem to have been resolved.		1			
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	Vassilis	2	Jim M	TOTAL AND SOLID TO CHINE TO TOTAL	
2057	SCM CAL File Processing Doc	Vassilis	2	Jim M	text completed. Put into std document format and send to Olivier for review	
2056	reprocess ESA SCM L2 cdf	Vassilis	2	Jim M	in progress	
2055	ESA L2 from L1 (not packets) - create L2 and test thoroughly, then	Vassilis	2	Jim M	awaiting Jim L to split L1 into master cdf	
					load TH-C 2009-02-18 00:52:20	
					load TH-B 2009-02-17 23:50:38	
					load TH-E 2009-02-13 22:27	
					load TH-D 2009-02-13 20:36	
			ETC-s		reprocess ESA and Overview plots for the following: load TH-A 2009-02-02 22:30:14.	
	reprocessing from Feb 2009-current ?				after MOM flags are up. Will need to	
054	Issue with ESA data and Overview Plots. Pgm Change and reprocessing from Feb 2009-current ?		1	Jim M	Program is fixed, reprocessing can go at any time, Email sent to Tim., will commit	
053	page. Revise ESA Processing History Web Page	David	1	Jim M	Awaiting reprocessing completion	
052	Add quality flag verbiage to ESA and MOM Data Description web	David	1	Jim M	Talk to Jim McFadden	
2951	New ESA Quality flag for Jim McFadden	Jim McFadden	1	Jim M	in progress, reprocessing to wait until week of 6/29-7/3	
	thm_cal_mom					
2049 2050	MOM Quality Flags and MOM Processing History Incorrect adjustment on S/C potential. Effects L2 cdfs. Fix in	Vassilis Vassilis	1	Jim M Jim M	Ready to go - Ready for Re-processing	
	onward.				·	
2048	Jim M Process full resolution for March 1-15 2008, Jan 15 2009 and	Vassilis	1	Jim M	on March 5, 2008	
	the values are 0,0,0. I'm not sure what they SHOULD be, but I know that their magnitude should equal 1. sqrt(x^2+y^2+z^2)=1					
	ydipgse=dipole_gse.y[1] zdipgse=dipole_gse.y[2] tilt=atan(xdipgse,zdipgse) When I check the data for 'dipole_gsm',					
	get_data,'dipole_gse',data=dipole_gse xdipgse=dipole_gse.y[0]					
	cotrans, 'dipole_sm', 'dipole_gsm', /SM2GSM cotrans, 'dipole_gsm', 'dipole_gse', /GSM2GSE					
	store_data,'dipole_sm',data={x:ct,y:dipole,v:v}					
	coordinates. ct=time_double('2008-02-16/04:50:00') dipole=[[0],[0],[1]] v=[1,2,3]					
2084	. transforming one data point from SM coordinates to GSM	Christine	3	Jim L		
2083	Add "last processed" time to L1 (and L2?) CDFs BugZid=115	Vassilis	3	Jim L		
2081	BugzID=25, low priority. Evaluate CDF compression algorithms BugZid=81	Vassilis	3	Jim L		
2080	Phantom packets" cause non-monotonic distribution times.	Vassilis	3	Jim L		
.079b	Change L0-L1 code to take corrections into account.	Vassilis	3	Jim L		
	prevent confusion about which corrections have or have not yet been applied. So each entry in the proposed correction file should have some sort of tag identifying what the correction is, which could be looked up in the CDF as a variable, variable attribute, or global attribute.					
	so future corrections can be easily handled. Low Priority steps or tasks: a. create a flag for the affected L1 variables somehow, to					
	E has a 0.25 sec timing error, starting in summer 2007, and continuing to the present (Feb 2008) time. We would like to fix these timestamps in the L1 CDF files. Process should be generic					
2079a		Vassilis	3	Jim L		
2078	bau_sunpulse_met assumes x86 endiannes (BugzID=13)	Vassilis	2	Jim L		
2077	Non Monotonic timestamps. BugzID=72	Vassilis	2	Jim L		
047b	Repeated timestamps and gaps in spin fit data BugZid=113 (#67 may fix this one as well).	Vassilis	2	Jim L		
:047a	BugzID=113 (BugzID=67 must be done first)	Vassilis	2	Jim L		
0475	V01 files around for a while to ease the transition) BugzID=45	Vassilia	0	line I		
	processing code d) change the L1->L2 processing code e) test the changes, then reprocess to create the V02 CDFs (keeping the					
	support V01 and V02 of the L1 CDFs c) change the L0->L1					
	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	Vassilis	2	Jim L		

2060	L2 cdf Quality Flags: for SST	Vassilis	2	Jim M		
2061	Data Description Paragraphs	David	2	Jim M		
2062	Alberta - At the moment the data files are from Dawson (daws),	Vassilis	2	Jim M		
	Churchill (fchu), Island Lake (isll) and Fort McMurray (mcmu). I will	1 4000	_	• • • • • • • • • • • • • • • • • • • •		
	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					
2085	Summary Plot mods	Vassilis	2	Jim M		
	,		2			
2005a	Fix duplicate velocity units by removing 'km/s' from ytitle and	Vassilis	2	Jim M		
00051-	maintaining 'km/s' in ysubtitle	\/!!!-		Line NA		
2085b	Either make velocity labels into ('X','Y','Z') or make velocity labels	Vassilis	2	Jim M		
	into 'VX','VY','VZ'. So that the components are easier to					
	distinguish.					
2085c	Modify ytitles on esa eflux and sst eflux so that they do not collide.	Vassilis	2	Jim M		
	(Insert '!C's or change setting to make tplot do this automatically).					
2085d	Set the scales on the zoomed out(24 hr) plots so that they are not	Vassilis	2	Jim M		
	autoscaled. Information on appropriate yranges should come from					
	Vassilis.					
2085e	Change labels on temperature lines so that they are done in	Vassilis	2	Jim M		
_0000	different colors (and possibly different linestyles).	. 400.110	_	C.111 IVI		
2085f	If necessary, Update the plot key so that it reflects any of the	Vassilis	2	Jim M		
20001	changes above. It'd probably be best to give this task to me, since	v assills		JIIII IVI		
	I've done the past modifications of the plot key.					
2086	Orbit Plot on Summary Plot web page - on the right side, 3 plots	Vassilis	2	Jim M		
	vertically, each overview plot there would be orbit panels					
	(coordinate with Harald).					
2087	Administrator's Guide	Vassilis	2	Jim M		
2088	Themis Developers Guide	Vassilis	2	Jim M		
	thm_load_mom: for quantities like velocity, the coordinate system	Vassilis	2	Jim M		
	isn't stored in the meta data, and none of the units are stored in the	vassilis		JIIII IVI		
	·					
	place we normally try to store them (from Pat - Vassilis concurs)					
	Will take a look.					
2089	Thm_fgm_overviews currently loads the data out of the fit file. It	Vassilis	2	Jim M		
	should probably load the data out of the fgm file. Only needs to					
	load from one data source. Jim M thinks the thm_load_fit can be					
	deleted					
2090	that streamlines the generation of gmag stackplots and a crib to	Vassilis	2	Jim M		
2030	show how to do this. (< than a day)	vassilis		JIIII IVI		
2091	Once Jim McFadden completes his mods for n_3d_new_3	Vassilis	2	Jim M		
2091		vassilis	2	JIII IVI		
0000	reprocess L2 cdf's - entire mission	\/!!!-		Line NA		
2092	thm_load_mom changes - reconcile mods with Davin at an	Vassilis	2	Jim M		
	appropriate time.		<u> </u>			
2093	AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes-	Vassilis	3	Jim M		
	Vassilis: minor nuisance					
2094	Overview plot change: mode bar seems thick	Vassilis	3	Jim M	nothing we can do easily	
2095	Mosaic Processing - permanent script needed	Vassilis	3	Jim M		
	Michael					
2064	In the process of using XDEGAP in THM_CAL_EFI to check for	Michael	1	Michael	Warning msg only	
	data gaps, I found that XDEGAP does not do any type checking.					
	Integer inputs do not get recast, so NaNs cannot be assigned.					
	Instead, those assignments become zeros. I propose to for the					
	output to be at least float (no need to do anything, if the input is					
	float or double), so that NaNs can always be assigned.					
2065	A related enhancement to XDEGAP would be to add a FLAG kw to	Michael	1	Michael		
	allow the user to choose different flags to fill the gaps (NaNs, by					
	default).					
2099	npot computation	Jim	1	Michael		
	·	McFadden				
2099a	Formula	Jim	1	Michael	McFadden has found bugs in the pipeline.	
		McFadden			I am on hold until he works those out (he	
					is working with Bonnell and Mozer).	
					2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
2099h	Modify THM_SCPOT2DENS to work stand-alone and with	Jim	1	Michael		
_033D	THM_FITGMOM_OVERVIEWS.	McFadden		wiichaei		
20000	McFadden requires more information on the bias changes from	Jim	1	Michael	LR save closed as of 6/11	\vdash
2099C	John as of 6/5		1	wiichaei	J.B. says closed as of 6/11	
		McFadden				
2099d	Integrate Nishamura's Npot routine as an option into	Vassilis	1	Michael	On Hold	
			1			1
	THM_SCPOT2DENS					
	THM_SCPOT2DENS EFI calibration	John	1	Michael		

2100a	Insert CL message for the begin/end times of the encountered	John	1	Michael		
04.001-	gaps. Also, output to kw and recored # gaps in metadata.	Bonnell	4	Mishaal		
2100b	Implement nominal and minimum # of spins, and NaN data where intervals are shorter than min # of spins.	John Bonnell	1	Michael		
2100c	Implement my suggestion to put the EDC offset output into a structure w/ one tag for ea. datatype.	John Bonnell	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).	
2100e	Reason for detecting frequent gaps?	John Bonnell	1	Michael	Closed -> Waveburst data is often shorter than estimation window.	
2100f	Check burst mode behavior w/ on-the-fly offset	John Bonnell	1	Michael	Use LASP? JB may think it's close one more look	0.5
2100g	Updated metadata, CL, and keywords to work with on-the-fly offset method.	John Bonnell	1	Michael		
2100h	Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?).	John Bonnell	1	Michael	On Hold	
2100i	Poor despinning bug fix	John Bonnell	1	Michael		
2100j	Kepko and efi offsets	John Bonnell	1	Michael		
2100k	"Case-by-case" calibration parameters ("short-term" high accuracy corrections). LASP does this, but needs integration.	John Bonnell	1	Michael		
21001	Deconvolution LASP does this, but needs integration (see 2h).	John	1	Michael		
2100m	The EFI program headers should include what inputs are valid for each keyword. Documentation	John Bonnell	1	Michael		
2100n	thm_load_efi - allow multiple coord's to be entered. Do not overwrite plot variables	John Bonnell	1	Michael		
21000	efs data deleted when thm_load_fit run twice, second time only fgs data requested	John Bonnell	1	Michael		
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		
2100q	Correlate to onboard spin fits using EFP data. Look at FGM.	John Bonnell	1	Michael	Talk to Jim L	
2100r	Add the DATATYPE kw to KYOTO_AE_LOAD , and load only AE data by default	John Bonnell	3	Michael		
2100s	Get the downloader (KYOTO_AE_DOWNLOAD based on the new version of FILE_HTTP_COPY) working	John Bonnell	3	Michael		
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		
2101b	Needs to run faster	John Bonnell	2	Michael		
2101c	John to get me example code from Chris Cully.	John Bonnell	2	Michael		
2102	FBK frequencies	John Bonnell	2	Michael		
2102a	Resolve conflict bet C. Cully and John B's bin center values. Conflict resolved. John agrees with Chris	John Bonnell	2	Michael		
2102b	Derive bin centers from CDFs (currently the bin centers are hard coded).	John Bonnell	2	Michael		
2102c	Make sure that bin center assignment from L2 works with any changes that Jim M. makes	John Bonnell	2	Michael		
2102d	John wants to calibrate by signal source – thm_cal_fbk	John Bonnell	2	Michael		
2103	EAC offsets	John Bonnell	2	Michael	John has taken AC coupled data -> he will get me the offsets and the switch-over times.	
2104	L2 CDF	John Bonnell	2	Michael	J. B. to talk to Vassilis about expectations for users. Michael to find out what the programming task is.	
2105	EFI Calibration Document	David	2	Michael	programming task is.	
2001	Prep for GEM - sort out projector, PPT slides, make trip	David	1	Pat	in progress	40
2003	SPLIT_VEC routine changes From Michael: SPLIT_VEC should also split the labels (as well as the traces), if there are the same number of labels as traces. Otherwise, you get the error: MPLOT: Incorrect number of labels and often also the wrong label displayed for the split trace. From Vassilis - Colors also, preserving the dlimits	Michael Vassilis	1	Pat	ni progress	40

946	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.	Jim M	1	Pat	(step 4, not fixable) for discussion with Jim M	16
2004	wavepol.pro and twavepol.pro - Put Olivier's into the distribution, test	Vassilis	1	Pat	waiting for feedback from Olivier	
608	Variables: When axes are locked, draw object should recalculate space needed between panels to display variables.		1	Pat		
2005	str_element does not add to embedded structures (BugzID=69)	Vassilis	1	Pat		
1456	Page Options: When the font on the variables is set to monospace symbol, the following warning shows on the command line: % IDLGRSRCDEST::DRAW: Select Charmap failure (Encoding: 0x756e6963) (FreeType error info: (38) invalid charmap handle).Setting the annotations to "Scientific Notation" and the Font to "Monospace Symbol" or "Symbol", generates many copies of this error on the console: % IDLGRSRCDEST::DRAW: Select Charmap failure (Encoding: 0x756e6963) (FreeType error info: (38) invalid charmap handle). This probably has something to do with the IDL formatting commands that we've inserted into the annotation string.	Pat	1	Pat	related to 1422	
2006	boundary normal coordinates. BugzID=59.	Pat	1	Pat	waiting to talk to Vassilis	
2007	Error msg for when timestamps of data do not match in tvector_rotate, tdotp, and tcrossp.	Pat	1	Pat		
2008	Tplot auto scaling. BugzID=41.	Pat	1 2	Pat		
2037	J. Kissinger's cotrans routine (from GSE to SSE coordinates)	Vassilis		Pat		
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	
2011	Christine's code to rotate the XY coord's along Earth direction was very effective. Also it was used by others. We need to streamline it, and it's very similar to the others you've already written.	Pat	3	Pat	to meet 6/19 with Christine	
2012	GMAG L2 attributes error - from Pat (very low priority - revisit)	Pat	3	Pat	could not figure out task	
2063	Make A-E Index an L2 cdf. (tba)	Pat	3	Pat		
2066	While generating an overview plot for probe c on 2009-6-3 I received a number of (~30-40) conversion errors (some where on line 400), get email from Aaaron or David	Pat	3	Pat		
	Misc					

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