Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate (hrs)
	To be Assigned or Discussed						
2182	g						
2183							
2184 2185							
2100							
	General						
	Review EFI web pages on beta site		David		John B		
	Create web pages for FFT, FBK		David		Chris Cully		
	Format FFT and FBK info from C Cully into web pages Work on acquiring FIT web info		David David		David David		
	Enhanced SST and MOM Instrument Web Pages		David		Davin		
	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		Vassilis Vassilis		Jon L	in progress Waiting for student to have time.	
	baseline subtracted (from Harald).				, ,	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 Problem with the front page of the web site. When you hover the		David		Amanda	After John has verified changes	
	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	
2160	ESA Processing Web Page revision	7/1/2009	David		Amanda		
	Handle Tony's Pub	7/1/2009	Tony		Amanda		
	SST, ESA and EFI Wiki pages - initial entries		Vassilis		Vladimir		
	Calibration - send sample to Vassilis and David Sibeck		Vassilis		Vladimir		
	Link to Plots Data contain engineering, deployment, maneuver, and science		Vassilis Vassilis		Vladimir Vladimir		
ļ	data are in the same stream. From the data description, only		Vassilis		Viauiiiiii		
	maneuver flag state_man is provided. Do you provide information						
	about the time intervals						
	when the data are on, say, engineering level? This data, though valuable in many respects, may be confusing if interpreted as science data. To provide such information, it is possible, for example, to add some bits to existing state_man flag. (from Vladimir) Quality flags (for each instrument to be added to L2						
	State cdf).						
	Clean-up the power ripples from the FGM data.		Krishan			awaiting programmer	
	Revise the Data Products Web page and send to Amanda	7/0/0000	David		David		
2163	Send to Jim McFadden the format of the beginnings of the Operations Log for on board changes that will effect the instrument	7/6/2009	Jim		Deron and		
1	data		McFadden		John McDonald		
	data		McFadden				
			McFadden			Current status ASK through October 5	
	Haraid Keograms being updated. 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		McFadden			Current status ASK through October 5 2008	
	Harald Keograms being updated. 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).		McFadden			_	
	Haraid Keograms being updated. 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). 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		McFadden			2008 Process full resolution for March 1-15	
	Haraid Keograms being updated. 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). 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.		McFadden			2008 Process full resolution for March 1-15	
	Haraid Keograms being updated. 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). 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?		McFadden		McDonald	2008 Process full resolution for March 1-15 2008, Jan 15 2009 and onward. (Jim M)	
	Harald Keograms being updated. 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). 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?		McFadden	1		2008 Process full resolution for March 1-15	
2174	Haraid Keograms being updated. 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). 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? Tim Reprocess VC files -> L0 packets, L0 packets -> L1 CDFs, and L1->L2 CDFs for all VC files from TH-D since the clock was reset. L1->L2 will probably take care of itself once the L1 files are made. VC->L0 and L0->L1 will need manual intervention.	7/20/2009	McFadden	1	McDonald	Process full resolution for March 1-15 2008, Jan 15 2009 and onward. (Jim M) Pending deployment of patch to processing software, Jim L. task 2173. Tim and Jim L. will work out the details and let the rest of the team know when	
2177 2069 2069a	Haraid Keograms being updated. 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). 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? Tim Reprocess VC files -> L0 packets, L0 packets -> L1 CDFs, and L1-> L2 CDFs for all VC files from TH-D since the clock was reset. L1-> L2 will probably take care of itself once the L1 files are made. VC-> L0 and L0-> L1 will need manual intervention.	7/20/2009			Tim	Process full resolution for March 1-15 2008, Jan 15 2009 and onward. (Jim M) Pending deployment of patch to processing software, Jim L. task 2173. Tim and Jim L. will work out the details and let the rest of the team know when the deed is done.	

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	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	Support gmag data remote sites		Vassilis	1	Tim	111,722, 112.113	
2070 2070a	Augsburg (MACC's)		Vassilis	1	Tim		
2070b	Alberta		Vassilis	1	Tim	gmag attributes - reprocess with fix - On Hold for IT	
2070c	Greenland		Vassilis	1	Tim	Tiola for tr	
	Processing full resolution ASI data disks (Apr-Nov 2008).		Vassilis	1	Tim	On Hold for IT to complete backup.	
2072	Reprocess of ESA L2 data from these dates and all days after until		Jim M	1	Tim	MOM reprocessing on hold, esa	
20.2	5/31. This is needed to fill in a missing energy bin in 88x15 full electron mode.		G			completed	
2063b	Make A-E Index an L1 cdf.		Pat	2	Tim	create cdf's	
2137	The CDF attributes for some of our GMAGs list the wrong location 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		Pat	2	Tim	see 2070b	
	Hannes						
2073	New FGM offsets for tail season		Vassilis	1	Hannes	in progress	
2074	V03 STATE		Vassilis	1	Hannes		
2074a			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		Vassilis	3	Hannes		
	Aaron					·	
2033	VMO file generation		David	1	Aaron		
2033a	One variable change to ASI files and possibly the whole repository		David	1	Aaron	changes sent to Jan	
	SCM and EFI L2 variables L2 STATE (?)		David David	1	Aaron Aaron		
1311	Add capability to go into landscape mode (page pull down menu)	7/21/2009	Pat/Jim L	1	Aaron	Print Landscape mode as well - in progress	
010							
2164	Just a quick summary of the task we were discussing to fix the issue Christine reported. If we decided to do the task, it would require modifying thm_gen_overplot.pro to use a fixed zrange for all spectral plots rather than autoscaling the plots. It should be trivial. We may also want to make the same changes to thm_ui_gen_overplot.pro, so we can be sure that the GUI overviews match the online overviews.	7/6/2009	Pat	2	Aaron		
	issue Christine reported. If we decided to do the task, it would require modifying thm_gen_overplot.pro to use a fixed zrange for all spectral plots rather than autoscaling the plots. It should be trivial. We may also want to make the same changes to thm_ui_gen_overplot.pro, so we can be sure that the GUI overviews match the online overviews. Add a task for the page options window to add font/color/size/alignment control for a panel title. Currently there is		Pat Cindy	2	Aaron Aaron		
21642168714	issue Christine reported. If we decided to do the task, it would require modifying thm_gen_overplot.pro to use a fixed zrange for all spectral plots rather than autoscaling the plots. It should be trivial. We may also want to make the same changes to thm_ui_gen_overplot.pro, so we can be sure that the GUI overviews match the online overviews. Add a task for the page options window to add						
2168 714 944	issue Christine reported. If we decided to do the task, it would require modifying thm_gen_overplot.pro to use a fixed zrange for all spectral plots rather than autoscaling the plots. It should be trivial. We may also want to make the same changes to thm_ui_gen_overplot.pro, so we can be sure that the GUI overviews match the online overviews. Add a task for the page options window to add font/color/size/alignment control for a panel title. Currently there is no way to control the way a panel title is displayed. Add a set all button to the Z axis. Step 7. Load THEMIS dataStep 7. FGM data: I did not get fge data for THC. Maybe there is none for that day (2008-1-1), but the running history also did not issue a "some data not loaded" error, unless only that datatype is requested. Running histor	7/13/2009	Cindy 7/20/2009 Michael	2 2 2	Aaron Aaron Aaron		
2168	issue Christine reported. If we decided to do the task, it would require modifying thm_gen_overplot.pro to use a fixed zrange for all spectral plots rather than autoscaling the plots. It should be trivial. We may also want to make the same changes to thm_ui_gen_overplot.pro, so we can be sure that the GUI overviews match the online overviews. Add a task for the page options window to add font/color/size/alignment control for a panel title. Currently there is no way to control the way a panel title is displayed. Add a set all button to the Z axis. Step 7. Load THEMIS dataStep 7. FGM data: I did not get fge data for THC. Maybe there is none for that day (2008-1-1), but the running history also did not issue a "some data not loaded" error,	7/13/2009	Cindy 7/20/2009	2	Aaron Aaron	I spoke to Pat about this yesterday and we both agreed that while we cannot be sure which quantities should be re-loaded and which shouldn't (some may have been used temporarily for calculations). However, we can store the users's original choice to overwrite the data or not. So while we may not be able to save on loading time we can still keep the user from having to click multiple messages and from having to remember what they chose originally. The latter is particularly important since they may receive errors or get corrupted data if they do not choose the correct option	4-8 hrs
2168 714 944	issue Christine reported. If we decided to do the task, it would require modifying thm_gen_overplot.pro to use a fixed zrange for all spectral plots rather than autoscaling the plots. It should be trivial. We may also want to make the same changes to thm_ui_gen_overplot.pro, so we can be sure that the GUI overviews match the online overviews. Add a task for the page options window to add font/color/size/alignment control for a panel title. Currently there is no way to control the way a panel title is displayed. Add a set all button to the Z axis. Step 7. Load THEMIS dataStep 7. FGM data: I did not get fge data for THC. Maybe there is none for that day (2008-1-1), but the running history also did not issue a "some data not loaded" error, unless only that datatype is requested. Running histor I ran into a small annoyance today when loading a themis document. I had originally loaded ESA and SST data for one time period, then overwrote that data by loading the same quantities but for a different time period. I did this several times and then saved the document for later. When re-opening the document I got a series of prompts asking whether I would like to re-write each quantity. It would speed up and streamline the process in this case if data that was later overwritten is not loaded when you open the document.	7/13/2009	Cindy 7/20/2009 Michael	2 2 2	Aaron Aaron Aaron	both agreed that while we cannot be sure which quantities should be re-loaded and which shouldn't (some may have been used temporarily for calculations). However, we can store the users's original choice to overwrite the data or not. So while we may not be able to save on loading time we can still keep the user from having to click multiple messages and from having to remember what they chose originally. The latter is particularly important since they may receive errors or get corrupted data if they do not choose the correct option	4-8 hrs
2168 714 944 2176	issue Christine reported. If we decided to do the task, it would require modifying thm_gen_overplot.pro to use a fixed zrange for all spectral plots rather than autoscaling the plots. It should be trivial. We may also want to make the same changes to thm_ui_gen_overplot.pro, so we can be sure that the GUI overviews match the online overviews. Add a task for the page options window to add font/color/size/alignment control for a panel title. Currently there is no way to control the way a panel title is displayed. Add a set all button to the Z axis. Step 7. Load THEMIS dataStep 7. FGM data: I did not get fge data for THC. Maybe there is none for that day (2008-1-1), but the running history also did not issue a "some data not loaded" error, unless only that datatype is requested. Running histor I ran into a small annoyance today when loading a themis document. I had originally loaded ESA and SST data for one time period, then overwrote that data by loading the same quantities but for a different time period. I did this several times and then saved the document for later. When re-opening the document I got a series of prompts asking whether I would like to re-write each quantity. It would speed up and streamline the process in this case if data that was later overwritten is not loaded when you open the	7/13/2009	Cindy 7/20/2009 Michael Aaron	2 2 2 2	Aaron Aaron Aaron	both agreed that while we cannot be sure which quantities should be re-loaded and which shouldn't (some may have been used temporarily for calculations). However, we can store the users's original choice to overwrite the data or not. So while we may not be able to save on loading time we can still keep the user from having to click multiple messages and from having to remember what they chose originally. The latter is particularly important since they may receive errors or get corrupted data if they do not choose	8 hrs

2113 Carlo mulments to all support keywords seaths and relightmentines, all 2114 Price's a possible to gift mapper, device should be presented in the DEVICE expressed. The code desert check to make a war if the graphic devices in valid papers devices and a process of the code. The code of the code o			T				T.	1
2119 Februs a pessable bug film, gen, complete when an liegal devices is sent with the DEVICE Reproved. The conditional value of the personal control is valid. It provides the conditional value of the general control is valid. It provides the conditional value of the personal value of	2114	Load routines to all support keywords suffix and relpathnames_all.			1	Aaron	in progress	8 hrs
and gracefully. The curs sees alt of l'Emines file not found nessages. Use in not forward infocution that the deservoyable residence is also before the mission began. It would also be useful to have a supplier or the mission began. It would also be useful to have a supplier or the mission began. It would also be useful to have a supplier or the process of the supplier of the mission began in the supplier of the supplier of the supplier of the mission began in the supplier of the suppli	2119	set with the DEVICE keyword. The code doesn't check to make sure if the graphics device is valid. It passes the test script because thm_gen_overplot has its own catch error statement embedded in the code. The catch statement does report, "Graphics device not available: a", but only after data have been loaded and tplot vars have been created. If a long time range is requested this			1	Aaron		
When we implemented plot _ gui, we give a support for the most important plot portions, but name yot the most obscure ones. If might be worthwhite to create a task for someone to go through orthouse/by and implement a many plot potions as a feasable. That way people can more ceely use the gui let an infection of the special post of the special	2118	exit gracefully. The user sees a lot of "Remote file not found messages", but is not offered any indication that the date requested is before the mission began. It would also be useful to have a check for when DATE plus DUR is greater than the current date,			1	Aaron	same time as 2119	
plot. options, "margin;" [100,100], ipoit does not fall gracefully after liegal margin set. In this case: plot. options, "margin;" [1-1] after liegal margin set. In this case: plot. options, "margin;" [1-1] after liegal margin set. In this case: plot. options, "margin;" [1-1] options; "margin;"		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		Pat				4 hrs
legend plots in the same color as the line, the legend text did not show up. We should probably just put in a check for this case. If the line is white and the background is white then draw the text in black 2178	2115	tplot_options,'xmargin',[100,100], tplot does not fail gracefully after illegal margin set. In this case: tplot_options,'xmargin',[-1,-1] -tplot does not fail gracefully after illegal margin set. In this case:			2	Aaron		
2178 thm_load_goes_mag - put attributes where other TDAS software express them 7/22/2009 Jonathan express them 1 8 8 8 9 1 8 9 1 8 9 1 8 9 1 8 9 1 8 9 1 9 9 1 9 9 1 9 9	2124	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		Pat	3	Aaron		4 hrs
2178 thm_load_goes_mag - put attributes where other TDAS software express them 7/22/2009 Jonathan express them 1 8 8 8 9 1 8 9 1 8 9 1 8 9 1 8 9 1 8 9 1 9 9 1 9 9 1 9 9		Brvan						
### DADD MOM doesn't recognize the datatype keyword for L1 data. (It does for L2) ### data. (It does f	2178	thm_load_goes_mag - put attributes where other TDAS software	7/22/2009		1	Bryan		
data. (It does for L2). Vassilis 2 Bryan	2122	•		Rae, Jim L	1	Bryan	S/W meeting on 7/27)	
2013c 2D with med imaging code Vassilis 2 Bryan		data. (It does for L2). Think about making 2D slices through distribution. See medical		Vassilis				
2027 2027 2027 2028 2028 2027 2028 2027 2028 2027		6						
2027e ftm_load_state 2 Bryan		0 0						
Finishing the coordinate transformation of the thm_load_state data at input, to include transformation of spinaxis attitude, need to determine keyword switch, implement the rotation of the spinaxis elevation/azimuth from gei to arbitrary coordinates (consult with Pat, Vassilia of Ken) 2041 thm_load_state out_coord velocity calculations wrong 2126 State Vector > remove coord keyword 7/20/2009 Pat/Jim L 2 Bryan 5/7/20/2009 Pat/Jim L 3 Bryan 5/7/20/2009 Pat/Ji				Vassilis				
State Vector -> remove coord keyword		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			·	
1578 When calling: timespan, 2008-01-29/00:00:00',1/day thm_load_state,probe='d'.coord='dsi'/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. 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. 2121 When thm_load_fit is called requesting a single data type it will also return some auxiliary data types. For example: thm_load_fit,probe=b',datatype='fgs' returns: 1 thb_fit_code 2 thb_fit_npts 3 thb_fgs. load bug or test script bug) b. The relpathnames all keyword is broken. 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 transform velocities. Users can incorrectly transform velocities just as easily using thm_cotrans on the command line, as they can using the coord keyword. 2028 Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi, _gmag, _ask, _mom, _esa_pkt	2041	thm_load_state out_coord velocity calculations wrong		Vassilis	2	Bryan		
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. 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. 2121 When thm_load_fit is called requesting a single data type it will also return some auxiliary data types. For example: thm_load_fit,probe='b',datatype='fgs' returns: 1 thb_fit_code 2 thb_fit_npts 3 thb_fgs. load bug or test script bug) b. The relpathnames all keyword is broken. 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. 2028 Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi, _gmag, _ask, _mom, _esa_pkt	2126	State Vector -> remove coord keyword	7/20/2009	Pat/Jim L	2	Bryan	give them suffix's - review with Cindy	
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. 2121 When thm_load_fit is called requesting a single data type it will also return some auxiliary data types. For example: thm_load_fit,probe='b',datatype='fgs' returns: 1 thb_fit_code 2 thb_fit_npts 3 thb_fgs. load bug or test script bug) b. The relpathnames all keyword is broken. 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. 2028 Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi, _gmag, _ask, _mom, _esa_pkt 3 Bryan Discuss at Software Meeting - also related to 2141 and 2135 4 Vassilis 3 Bryan Vassilis 3 Bryan	1578	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		Pat	2	Bryan	on hold - may be solved by 2126	
return some auxiliary data types. For example: thm_load_fit,probe='b',datatype='fgs' returns: 1 thb_fit_code 2 thb_fit_npts 3 thb_fgs. load bug or test script bug) b. The relpathnames all keyword is broken. 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. 2028 Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi, _gmag, _ask, _mom, _esa_pkt Vassilis 3 Bryan	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		Pat	3	Bryan		
2135 I didn't realize the cotrans messed up the velocities for earth centered coordinates. Maybe what we really need to do is modify cotrans so that it correctly transforms velocities. Users can incorrectly transform velocities just as easily using thm_cotrans on the command line, as they can using the coord keyword. 2028 Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi, _gmag, _ask, _mom, _esa_pkt Pat/Jim L 3 Bryan Discuss at Software Meeting - also related to 2141 and 2135 Vassilis 3 Bryan	2121	return some auxiliary data types. For example: thm_load_fit,probe='b',datatype='fgs' returns: 1 thb_fit_code 2 thb_fit_npts 3 thb_fgs. load bug or test script bug) b. The			3	Bryan		
_sst, _esa, _bau, _fgm, _fbk, _fft, _scm, _efi, _trg, _asi,	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		Pat/Jim L	3	Bryan	•	1
	2028	_sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi,		Vassilis	3	Bryan		
		l amag lask mom lesa nkt						

						
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		Hannes	3	Bryan	
	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		Hannes	3	Bryan	
	position from another source. Notes from Vassilis: option to introduce the data in RE with keyword (one RE =6,478 kilometers ???). Like thm_load_fgm /pos_units= 'RE'. Also thm_load_state keyword out_coord = 'GSM', 'GSE',etc.					
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					
2179	Modify code for generating ephemeris	7/23/2009	Sabine		Cindy	
2179a	Minimize/avoid writing files whenever possible, pass data as arrays.	7/23/2009	Sabine		Cindy	
2179b	Remove ROI definitions from code and isolate in default init file	7/23/2009	Sabine		Cindy	
2179c 2179d	Handle situations when an ROI file is not found. This is not necessarily an error Handover from step 1 (generation of maneuvers, MDT) to step 2	7/23/2009	Sabine Sabine		Cindy	
2179d 2179e	(create file for a time range, time resolution) needs optimization Fix bug with maneuver numbering. It gets messed up when data is	7/23/2009	Sabine		Cindy	
	copied to state vector file. Get rid of awkward filtering in code	7/23/2009	Sabine		Cindy	
21701		1720/2000	Cabino		Onlay	
2180	Hithesh APID 458 compression - verify		Ops	1	Hithesh	descrepancy on Probe A
2014	Peter wrote code to reset ETC Kicker (1/8 or 1/9) after hang-up.		Peter	1	Hithesh	Will run test on model sim until flatsat is available.
2014c	First try to simulate in Modelsim. If unable to freeze ETC, then move to hardware simulation. If the problem is caused by Asynchronous signal (sun pulse), we won't be able to simulate the problem		Peter	1	Hithesh	Need to find some time on flatsat. Flatsat busy with Artemis.
2015	Logic Analyzer setup		Vassilis	1	Hithesh	
2157	The ground-computed SC_POT to on-board computed SC_POT do not agree all the time. Jim McFadden thinks it is because of sampling jitter.		Jim McFadden	2	Hithesh	ETU not responding. Peter is looking into it.
	line I					
2024	Jim L GUI Trainings at UCB		David	1	Jim L	S. Mende Completed, next training for Harald Frey and Niguel 7/27
2173	Add patch to VC->L0 and L0->L1 processing to fix TH-D clock anomaly			1	Jim L	
2181	APID Compression on Probe A did not work - monitor telemetry	7/24/2009	Ops	1	Jim L	
2130	FGM offset study/debug for European Folks		Vassilis	1	Jim L	Offset Data - more analysis in progress
2034 2034c	V03-L2 cdf STATE writing some code to fill in the position and velocity variables for		Vassilis Vassilis	1	Jim L Jim L	automation in progress - eta 7/24
2034d	GSE and GSM coordinates. 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		Vassilis	1	Jim L	in progress enough data for Hannes to start testing. Thm_load_state done. Analysis to determine which other routines proof figure will be done.
2034e	calibration I need to enhance the spinmodel routines to use Hannes' spin phase correction, if present With these code changes in place, we can hopefully make some kind of comparison between FGM data calibrated/cotrans-ed with V02 vs. V03 state to verify that the V03 attitude and spin phase corrections are working properly		Vassilis	1	Jim L	In progress then we'll do another round of tests when the spinmodel code is modified to use the V03 spin phase corrections. Question - do we apply spin phase corrections to other instruments? S/W meeting 7/27

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.	
2149	They were also asking when we'll be getting rid of the spikes in the L1 FGM data (Bugzilla #44 and #67). I told them that this is already in the queue, and I should be getting to it very soon. Maybe now is the time?	FGM Team	1	Jim L		
2149a	Packet lookahead in L0->L1 processing (Bugz #67)	FGM Team	1	Jim L		16
2149b	Apply despike algorithm to current packet if next packet has different range (Bugz #44)	FGM Team	1	Jim L		16
2149c	When a and b are coded and tested, build new tmtools release and	FGM Team	1	Jim L		8
	start using it for automated processing.					
2149d	Reprocess all L1 FGM data (which should trigger L2 FGM reprocessing as well) will run for several days, should probably wait until "new justice" is operating reliably)	FGM Team	1	Jim L	Set-up only, then goes to Tim or Jim M	1
2035	Split L1 ESA (using Thomas's routine) in master ESA data cdf	Vassilis	2	Jim L	On Hold - awaiting Jim McFadden release: Then send David Sub Task List; Calibration variables removed from L1 data master CDF. (Side note: found and reported a bug in SKTEditor, which the Goddard team has agreed to fix) Waiting for feedback from Jim McFadden about how calibration data should be handled (TH-A ASCII calibration file (used for all probes) doesn't match anything I removed from the data CDF).	
2076	SM coord transformation in thm_cotrans does not work: fixing that	Vassilis	2	Jim L	Issue Warning and not to let it fail.	
2070	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).	Vaccino	-	S E	Clarification Needed	
1563	We were just griping about how long the Overview plots take to load, and I was thinking, what if the Overview Plot window, had a list of check boxes that would enable the user to turn off certain plots? That way if they don't care about the AE index plot, they could turn it off and speed up the load of the rest of overview plots. Here's some more food for thought: didn't we recently discuss the possibility of making an AE index CDF, and let the users download that instead of downloading all the data necessary to recalculate it client-side? Another candidate for that sort of treatment might be the time intervals for slow survey, fast survey, particle burst, and wave burst that's another calculation that requires a large volume of data to be downloaded to produce a tiny product, but only a trivial amount of extra work if it's done on the server side.	Bryan/JimL	2	Jim L	Separate L1	
2147	FGM spin harmonics correction (remove interference from solar array currents). David Fisher has produced several tables (each table valid for a few months; correction varies with sun angle) of FGM correction vs. spin phase	FGM Team	2	Jim L and/or Hannes		
2147a	Decide on how to represent tables for use in thm_cal_fgm (keep as	FGM Team	2	Jim L		16
	ASCII? convert to CDF?), get full set of corrections, convert to the desired format, install somewhere under /disks/themisdata (probably alongside FGM cal files?)			and/or Hannes		
2147b	Add a step to thm_cal_fgm to load the appropriate correction tables for the probe & time interval being processed, use spin phase at each sample and interpolate within table to find correction at that point, apply correction. There should be a way to disable this correction (e.g. /NO_HARMONIC_CORRECTION keyword or similar, since David F. will need to periodically create new tables from the uncorrected data as data continues to accumulate).	FGM Team	2	Jim L and/or Hannes		40
0	D 1050M 1 1 1 11 11 11 11 11 11 11 11 11 11 11	F01: T				
2147c	Reprocess L2 FGM products with enhanced code	FGM Team	2	Jim M or Tim	It might make sense to delay 2147c and 2148b L2 reprocessing until the 2149d L1 reprocessing is performed.	
2148	ADC non-linearity correction: This was proposed as a correction to (i.e. reprocessing) the L1 FGM CDFs, but I think it really belongs in thm_cal_fgm as the very first step. There are jumps in the X, Y, and Z components of the FGM data when the field increases or decreases past some thresholds. Dragos Constantinescu has sent some IDL code to implement the correction, but today I'm told that this code doesn't work that well, and Dragos will be rewriting it to reflect that the size of the jump depends strongly on the rate of change as well as the threshold value.	FGM Team	2	Jim L and/or Hannes		

						T	
2148a	3a) Incorporate Dragos' code in thm_cal_fgm (hold off on	FGM Te	eam 2	2	Jim L		16
	implementing until Dragos delivers improved algorithm; estimate 2				and/or		
04.405	days from receipt of revised code?)	FOMT	(_	Hannes	It as in the second of the sec	
2148b	Reprocess L2 FGM products with enhanced code (Jim McT, combine with 2147c?)	FGM Te	eam 2	2	Jim M or Tim	It might make sense to delay 2147c and 2148b L2 reprocessing until the 2149d L1 reprocessing is performed.	
2036	GOES 10-12 Test data: h. update labels (Howard's request - minor tweak)	Vassil	is 2	2	Jim L	reprocessing is perioritied.	
2038	STATE Web Page (s)	Vassil		2	Jim L	revew web pages	
2039	bad timing sun pulse times (early January 2009)	Vassil		2	Jim L	Clarification needed	
2040	L1 Data Processing History Info: SCM, EFI, STATE	Vassil		2	Jim L		
2042	FGM range changes in the mid packet. Post Proc maybe a solution to eliminate the spike. BugzID=44. Bfield mid-packet jumps.	Vassil	IS 2	2	Jim L		
2043	Refactor repeated CDF library code in CDF processing tools BugZid=50	Vassil		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, Gmag, State, SST, ESA	Vassil		2	Jim L		
2047	Separate E and B timestamps for spin fits: a) make a revised V02 master CDF with E and B separated b) change thm_load_fit to support V01 and V02 of the L1 CDFs c) change the L0->L1 processing code d) change the L1->L2 processing code e) test the changes, then reprocess to create the V02 CDFs (keeping the V01 files around for a while to ease the transition) BugzID=45	Vassil	is 2	2	Jim L		
2047a	FGS sample times and values, showing repeated timestamps. BugzID=113 (BugzID=67 must be done first)	Vassil	is 2	2	Jim L		
2047b	Repeated timestamps and gaps in spin fit data BugZid=113 (#67 may fix this one as well).	Vassil	is 2	2	Jim L		
2077	Non Monotonic timestamps. BugzID=72	Vassil	is 2	2	Jim L		
2078	bau_sunpulse_met assumes x86 endiannes (BugzID=13)	Vassil	is 2	2	Jim L		
2080	Phantom packets" cause non-monotonic distribution times. BugzID=25, low priority.	Vassil	is 3	3	Jim L		
2081	Evaluate CDF compression algorithms BugZid=81	Vassil	is 3	3	Jim L		
2083	Add "last processed" time to L1 (and L2?) CDFs BugZid=115	Vassil	is :	3	Jim L		
2084	. transforming one data point from SM coordinates to GSM	Christi		3	Jim L		
	dipole=[[0],[0],[1]] v=[1,2,3] store_data,'dipole_sm',data={x:ct,y:dipole,v:v} cotrans,'dipole_sm','dipole_gsm',/SM2GSM cotrans,'dipole_gsm','dipole_gse',/GSM2GSE get_data,'dipole_gse',data=dipole_gse xdipgse=dipole_gse.y[0] ydipgse=dipole_gse.y[1] zdipgse=dipole_gse.y[2] tilt=atan(xdipgse,zdipgse) When I check the data for 'dipole_gsm', the values are 0,0,0. I'm not sure what they SHOULD be, but I know that their magnitude should equal 1. sqrt(x^2+y^2+z^2)=1						
2048	Process full resolution for March 1-15 2008, Jan 15 2009 and onward.	Vassil	is ′	1	Jim M	on March 8, 2008. Stopped On hold for IT	
2049	MOM Quality Flags and MOM Processing History	Vassil	is ,	1	Jim M	Ready to go. Waiting for ESA reprocessing to complete.	
2050	Incorrect adjustment on S/C potential. Effects L2 cdfs. Fix in thm_cal_mom	Vassil	is '	1	Jim M	Mod completed awaiting to reprocess MOM L2 cdfs for specific dates for each probe.	
2951	New ESA Quality flag for Jim McFadden	Jim McFado	den	1	Jim M	in progress, processing to wait until current reprocessing done	
2052	Add quality flag verbiage to ESA and MOM Data Description web page.	David		1	Jim M		
2053 2054	Revise ESA Processing History Web Page Issue with ESA data and Overview Plots. Pgm Change and reprocessing from Feb 2009-current ?	David	•	1	Jim M Jim M	Awaiting reprocessing completion Ready to go. Waiting for reprocessing to complete.	
						load TH-A 2009-02-02 22:30:14.	
						load TH-D 2009-02-13 20:36	
			ET	C-ss	st-esa table	load TH-E 2009-02-13 22:27	
		 	ET	C-s	st-esa table	load TH-B 2009-02-17 23:50:38	
						load TH-C 2009-02-17 20:30:30	
2145	Problem with ASI crib when using the command 'ctime,/cut' to 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. % Stop encountered: \$MAIN\\$ 58 /home/pcruce/IDLWorkspace/themis/examples/thm_crib_asi.pro</ptrheapvar289>	Pat		2	Jim M	email from Harald - possibly by 7/27	
	% Program caused arithmetic error: Floating illegal operand						

2125	I received an error in the smoothing function with the	Aaron	2	lim M		1
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 <c:\gunthemis_gui\themis\t 123)="" hm_ui_new\panels\thm_ui_dproc_panel.pro(=""> THM_UI_NEW_DPROC<c:\gui\themis_gui\themis\thm_ui_new 179)="" \utilities\thm_ui_new_dproc.pro(=""> CALL_DPROC<c:\gui\themis_gui\themis\thm_ui_new_dproc.pro(57)=""> THM_UI_LOADED_DATA::DPROC<<c:\gui\themis_gui\themis\thm_ui_new\other 104)="" inew\utilities\thm_ui_loaded_data_dproc.pro(=""> ERROR_MESSAGE <c:\gui\themis_gui\themis\thm_ui_new\utilities\tror_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\sl_general\misc\smooth_in_time.pro ESA L2 from L1 (not packets) - create L2 and test thoroughly, then</c:\gui\themis_gui\themis\thm_ui_new\utilities\tror_message.pro(></c:\gui\themis_gui\themis\thm_ui_new\other></c:\gui\themis_gui\themis\thm_ui_new_dproc.pro(></c:\gui\themis_gui\themis\thm_ui_new></c:\gunthemis_gui\themis\t>	Aaron	2	Jim M	On Hold; awaiting Jim L to split L1 into	
2000	reprocess ESA	vassilis	2	JIIII IVI	master cdf	
2056	SCM L2 cdf	Vassilis	2	Jim M	in progress	
2057	SCM CAL File Processing Doc	Vassilis	2	Jim M	text completed. Put into std document	
2058	found 3 errors in the new th*_I2_esa masters - the good news is, with them fixed in our masters, all plotting issues w/ the ESA files (in CDAWeb) seem to have been resolved.	Vassilis	2	Jim M	format and send to Olivier for review	
2059	L2 Data Processing History Info Completed: ESA, MOM Still to be Done: SST, FGM, FBK, FFT, FIT	Vassilis	2	Jim M		
2060	L2 cdf Quality Flags: for SST	Vassilis	2	Jim M		
2175	L2 File Definitions Document - awaiting L1 document to be completed to use as template.	David	2	Jim M		
2061	Data Description Paragraphs	David	2	Jim M		
2062	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		
	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		
2085e	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	Vassilis Vassilis	2	Jim M Jim M		
2089	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. 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	Vassilis	2	Jim M		
	deleted					
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		
2093	AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: minor nuisance	Vassilis	3	Jim M		
2094 2095	Overview plot change: mode bar seems thick Mosaic Processing - permanent script needed	Vassilis Vassilis	3	Jim M Jim M	nothing we can do easily	
	Michael					

2169	LASP code appears to label SPG coords w/ DSL. Investigate and	7/13/2009	John	1	Michael	verify if fixed	
2170	fix. Port LASP axial calibration to eff datatype -> can we?	7/13/2009	John	1	Michael	in progress	
2171	Update THM_CRIB_EFI (adding _0 and _dot0 examples, if absent)	7/13/2009	Bonnell John	1	Michael		
2172	giving examples for recent upgrades to THM_CAL_EFI. Change THM_CRIB_EFI time interval to one of the Mozer intervals.	7/13/2009	Bonnell John	1	Michael	_	
2100	EFI calibration		Bonnell John	1	Michael	in progress	
2100d	DC offset between 4sdo and 2sdo in boom plane		Bonnell John	3	Michael	Which is better? Assigned to J. B. (low	
	, i		Bonnell			priority).	
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 corrections). LASP does this, but needs integration.		John Bonnell	2	Michael	On Hold	
2100n1	better define the behavior of THM_LOAD_EFI if multiple coord are specified.		John Bonnell	1	Michael		
2100n2	add an example to the EFI crib demonstrating the behavior.		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		
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		John	3	Michael	Check with Andrea if still needed	
2101	version of FILE_HTTP_COPY) working THM_SPINFIT simulates the on-board spin fits		John "	2	Michael	in progress	
2101a	and reflect in TPLOT var name and metadata. Check offsets	Revised 7/13/2009	Bonnell John Bonnell	2	Michael		
2099	against C. Cully's example. npot computation		Jim	1	Michael		
2099e	Integrating Npot code.	7/24/2009	McFadden Toshi	2	Michael		
2099f	Writing a crib to demonstrate how to use the code to remove penetrating electrons from ESA e- and ion data	7/24/2009	Toshi	2	Michael		
2099a	Formula		Jim McFadden	3	Michael	McFadden has found bugs in the pipeline. I am on hold until he works those out (he is working with Bonnell and Mozer).	
2099c	McFadden requires more information on the bias changes from John as of 6/5		Jim McFadden	3	Michael	J.B. to send Jim McFadden info	
2099d	Integrate Nishamura's Npot routine as an option into THM_SCPOT2DENS		Vassilis	3	Michael	On Hold	
2102	FBK frequencies		John Bonnell	2	Michael		
2102c	Make sure that bin center assignment from L2 works with any		John	2	Michael	Talk to Jim M on 7/13	
2102d	changes that Jim M. makes John wants to calibrate by signal source – thm_cal_fbk		John	2	Michael		
2103	EAC offsets		Bonnell John	2	Michael	John has taken AC coupled data -> he will	
			Bonnell			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:	
2006	Pat boundary normal coordinates. BugzID=59.		Pat	1	Pat		
2162	talking with Mcfadden this week, as well as doing some of my own work, it seems that it would be very useful to have THM_LOAD_HSK be able to produce TPLOT variables with housekeeping data in physical (calibrated) units; ie. IEFI_IBIAS in nA instead of RAW TM units. The conversions are straightforward and well-documented, although we should check with the MOC folks to get the latest versions of the calibration parameters.	7/2/2009	John B	1	Pat	Waiting for John B to verify units on tplot output.	
2037	J. Kissinger's cotrans routine (from GSE to SSE coordinates)		Vassilis	2	Pat	SPICE/ICY lib installed. integration of this data into a separate L2 cdf in progress	
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		
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. Make A-E Index an L1 cdf.		Pat	2	Pat	in progress	
2003a	WARE ATE HUEX AH ET CUI.		Pai	Z	Pat		

2139	I noticed that when calc performs an operation that reduces the number of dimensions on a tplot variable, it doesn't reduce the number of labels and/or colors, which can cause tplot to issue a warning when a result is plotted.	Pat	2	Pat	
1121	Overview plots - need to figure out how to handle memory issues with tplot variables.	Bryan	2	Pat	
964	I noticed a bug with the x-grid thickness. For some reason if I use a style like dotted and increase the thickness, the thickness doesn't appear to increase properly for the portion of the grid near the axis itself. This is a pretty minor aesthetic thing, so I don't think it will be a big deal if we put it in the next phase.	Pat	3	Pat	
2063	Problem with edit3dbins is being caused by IDL's mouse system variable not being updated correctly on Macs. The ctime procedure, used to interactively select a time from a tplot window, relies on this variable to determine when a selection has been made in the tplot window. If the variable is never updated then ctime gets caught in an infinite loop. It's unclear whether this is specific to a particular OS version, but the routine should probably be modified at some point to maximize compatibility with Macs. In the meantime the alternate method of calling gettime that I copied you on yesterday should provide a temporary way around this bug.	Aaron	3	Pat	
2106	Add the ability to right-click on a variable in the widget-tree and display a popup with basic information about the quantity such as dimensions, range, or other meta data as well as the ability to rename variable	Pat	3	Pat	originally part of task 64, however, after further evaluation, it was determined this best belonged with the widget tree rather than the analysis window
1555	A conversation here brought up what should probably be considered a feature. If only minor grids are on, gaps appear in the grid lines, because the grids are not drawn on major ticks. After talking about it, we were thinking a better rule would be to only maintain those gaps if major grids are turned on.	Pat	3	Pat	
	Misc				
447	Save THEMIS document: Attempting to save to a read only file in Windows outputs the correct error message, but IDL crashes immediately afterwards.		1		IDL Error report to ITT

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