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'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		maintaining 'km/s' in ysubtitle					
2085c Modify ytitles on esa eflux and sst eflux so that they do not collide. Vassilis 2 Vladimir	2085b			Vassilis	2	Vladimir	
		'VX','VY','VZ'. So that the components are easier to distinguish.					
	20850	Modify ytitles on esa eflux and sst eflux so that they do not collide		Vassilis	2	Vladimir	
					-		

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	Vladimir	
2085e	Change labels on temperature lines so that they are done in different colors (and possibly different linestyles).		Vassilis	2	Vladimir	
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	Vladimir	
2085h	change plot key		Vassilis	2	Pat	when 2085a-g completed
2200	FIT web pages info		David	2	Vladimir	See David for Template
	Aaron				-	1
2033	VMO file generation		David	1	Aaron	
2033a	One variable change to ASI files and possibly the whole repository		David	1	Aaron	changes sent to Jan
2033b 2033c	SCM and EFI L2 variables V03 L2 STATE - revision needed?		David David	1	Aaron Aaron	awaiting Jim M sign-off send Jan an email
20330	While I was working on task 2183, I noticed some small bugs in	9/21/2009	Pat	1	Aaron	send Jan an email
	thm_load_fft. If I set the probe with a variable like: probe='a' thm_load_fft,probe=probe It will modify the variable probe so that it ends up with the value: probe=['a'] after the call. If I set the datatype with a variable like: datatype = 'ffw_16_scm1' thm_load_fft,datatype=datatype It will modify the variable so that it ends up with the value: datatype = 16',ffp_32','ffp_64','ffw_16','ffw_16_scm1','ffw_32', 'ffw_64'] after the call. These inadvertent mutations of variables in the parent code can be annoying to deal with. These should probably just be handled correctly in thm_load_fft					
2255	I just noticed a bug in the new version of thm_load_state. Right now it will print out a warning message saying that it is incorrectly transforming the velocity regardless of what or whether a transformation is being applied. It should only print this message if it is actually transforming a data quantity. Currently it is telling users that their data is wrong, when it is not actually wrong.	9/28/2009	Pat	1	Aaron	
2013	2-D, 3-D slices enhancements					
2013g	Integrate into gui - load slices in idl medical imagery software		Vassilis	1	Aaron	
2013j	Make plot_part_slice2d.pro more complete by adding in plotting		Vassilis	1	Aaron	
2013k	keywords/options available in thm_esa_slice2d. Create our own version of slicer3.pro that can take user input to setup		Vassilis	1	Aaron	
20121	colors, orientation, etc. when it's called.		Veggilie	1	Aaraa	
2013l 2020b	Integrate our own slicer3.pro gui with regular 2-D slice plots. If requesting 1 hour of data using timespan, then load data using one of our load data routines.: EFI and SCM		Vassilis Vassilis	2+	Aaron Aaron	
2252		0/22/2000	Christing	2	Aaraa	
2253 2027e	Fix crib errors - Christine's list of 9/23/09 Finishing the coordinate transformation of the thm_load_state data at	9/23/2009	Christine Vassilis	2	Aaron Aaron	not allow velocity to go bad
20210	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)		Vaccino		, aron	
1579	When importing a variable with a valid 'V' component in its data struct, but no spec flag set in its meta data, the loaded data object fails to load the y-axis. This should be fixed, as it ends up incorrectly loading certain spectral quantities.		Pat	3	Aaron	
2121	When thm_load_fit is called requesting a single data type it will also return some auxiliary data types. For example: thm_load_fit,probe='b',datatype='fgs' returns: 1 thb_fit_code 2 thb_fit_npts 3 thb_fgs. load bug or test script bug) b. The relpathnames all keyword is broken.			3	Aaron	
2028	Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi, _gmag, _ask, _mom, _esa_pkt		Vassilis	3	Aaron	
2029	From Hannes		Hannes	3	Aaron	
2029a	Provided is the most common plot used by scientists that look at magnetic field data. Four panels Bx By Bz Bt and the position X Y Z as variables. Often the radial distance R is another variable. It would be great if someone enters e.g. tplot,'tha_fgs_gsm' such a useful default plot would appear. I am currently not able to produce such a plot using tplot. Another useful plot would be instead of one trace per panel, 5 traces per panel. One for each spacecraft and 5 sets of positions as variables at the bottom. For example: tplot,'th?_fgs_gsm' could produce such a plot. Also some standard plots that combine ground and spacecraft data could be useful. Notes from Vassilis: define keyword /positions default 'none', allow GSM X Y Z, R Lat Long,		Hannes	3	Aaron	

2029b The level 2 CDF files at Hannes 3 Aaron	
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.	
2029c If one loads fgm data from probe 'a' and let's say there are no data for the chosen interval. The variables tha_fgl and tha_fgl_gsm etc. should all be empty. It could be those variables still contain data from the previously loaded interval. Hannes 3 Aaron	
2030 upgrade thm_load to work with probe assignments Vassilis 3 Aaron	
2031 move functionality of thm_load_state2 into thm_load_state and delete Vassilis 3 Aaron thm_load_state2 Vassilis 3 Aaron	
2032 Multiple enhancements concerning keywords, valid_names and thm_load routines Vassilis 3 Aaron	
Cindy	
2239 It looks like we may need to make some small modifications to the Load Themis Data panel to make it work correctly with the changes in thm_load_state. Bug #1 I just got the new version and noticed that if I load probe state/pos with gei coords selected, it correctly load tha_state_pos(in GEI), but now also loads tha_state_pos_ges and tha_state_pos_gsm. This is almost certainly because these new coordinate systems were just added to the state file. It should have only loaded the coordinate system requested. Also, if you request another coordinate system. So if I select coord='dsl', I will get tha_state_pos,tha_state_pos_gse,tha_state_pos_gsm, but despite their names, they will all actually be in DSL coordinates. Bug #2 We need to modify the panel so that it does not transform velocities incorrectly. Right now, if I load probe a/state/vel in spg coords, it will perform an incorrect transformation of the velocity into SPG. (incorrect 9/10/2009 Pat 1 Cindy in progress	
as per our discussion on the limitations of the cotrans routine with resp	
as per our discussion on the limitations of the cotrans routine with resp Image: Constraint of the cotrans routine with resp 2013g Integrate into gui Vassilis 2 Cindy Put together task list	
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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	all 2149 tasks in progress
	Packet lookahead in L0->L1 processing (Bugz #67) Apply despike algorithm to current packet if next packet has different range (Bugz #44)		FGM Team FGM Team	0 1	Jim L Jim L	
2149c	When a and b are coded and tested, build new tmtools release and start using it for automated processing.		FGM Team	1	Jim L	tmtools 6_00 release built & tested with 2149a and 2149b, 2213 not yet included.
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	Waiting for Vassilis to approve use of tratools 6_00 "as is" for automated processing, and reprocessing L1 STATE (V03 and additional variables), FIT and FGM (range changes).
2149e	Detect and repair time tags in L0->L1 processing when sample rate changes mid-packet (depends on 2149a)		Jim L and Michael	1	Jim L	see 2213
2149f	Reprocess L0->L1 for data types susceptible to time tagging problems due to sample rate changes		Jim L and Michael	1	Jim L	see 2213
2149g	write a routine to check time tag monotonicity and repair tplot variable if necessary (with options for "replace with NaN" and "delete")		Jim L and Michael	1	Jim L	assign when 2149e started. Michael: Since it is difficult or impossible (in post-processing) to identify all of the bad time tags (or even some of them e.g., the fast->slow case), I recommend that we just remove what is needed to make the time tags monotonic, and issue a warning indicating that the user should consult the THEMIS software team about that data.
2149h	integrate time tag fixer-upper with TDAS load routines		Jim L and Michael	1	Jim L	assign when 2149e started
2248	once in a while (maybe 10-20 occurrences per probe during the entire mission), the FGM range doesn't change on all three axes at once:	9/10/2009	Jim L	1	Jim L	see 2149g and h
2082a	Spin modeling during shadows BugZid=43		Vassilis	2	Hannes	Jim L to write routine. Hannes send info.
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).
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
2148	ADC non-linearity correction: This was proposed as a correction to (i.e. reprocessing) the L1 FGM CDFs, but I think it really belongs in thm_cal_fgm as the very first step. There are jumps in the X, Y, and Z components of the FGM data when the field increases or decreases past some thresholds. Dragos Constantinescu has sent some IDL code to implement the correction, but today I'm told that this code doesn't work that well, and Dragos will be rewriting it to reflect that the size of the jump depends strongly on the rate of change as well as the threshold value.		FGM Team	2	Jim L and/or Hannes	
2148a	3a) Incorporate Dragos' code in thm_cal_fgm (hold off on implementing until Dragos delivers improved algorithm; estimate 2 days from receipt of revised code?)		FGM Team	2	Jim L and/or Hannes	
2148b	Reprocess L2 FGM products with enhanced code (Jim McT, combine with 2147c?)		FGM Team	2	Jim M or Tim	It might make sense to delay 2147c and 2148b L2 reprocessing until the 2149d L1 reprocessing is performed.
2036	GOES 10-12 Test data: h. update labels (Howard's request - minor tweak)		Vassilis	2	Jim L	determine if to be reassigned
2038	STATE Web Page (s)		Vassilis	2	Jim L	review web pages
	bad timing sun pulse times (early January 2009) L1 Data Processing History Info: SCM, EFI, STATE		Vassilis Vassilis	2	Jim L Jim L	Clarification needed
2042	FGM range changes in the mid packet. Post Proc maybe a solution to eliminate the spike. BugzID=44. Bfield mid-packet jumps.		Vassilis	2	Jim L	
2043	Refactor repeated CDF library code in CDF processing tools BugZid=50		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, Gmag, State, SST, ESA		Vassilis	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		Vassilis	2	Jim L	
2047a	FGS sample times and values, showing repeated timestamps. BugzID=113 (BugzID=67 must be done first)		Vassilis	2	Jim L	
	Repeated timestamps and gaps in spin fit data BugZid=113 (#67 may fix this one as well).		Vassilis	2	Jim L	
2077	Non Monotonic timestamps. BugzID=72		Vassilis	2	Jim L	
2078	bau_sunpulse_met assumes x86 endiannes (BugzID=13)		Vassilis	2	Jim L	
2080	Phantom packets" cause non-monotonic distribution times. BugzID=25, low priority.		Vassilis	3	Jim L	
2081	Evaluate CDF compression algorithms BugZid=81		Vassilis	3	Jim L	
2083	Add "last processed" time to L1 (and L2?) CDFs BugZid=115		Vassilis	3	Jim L	
2084	. transforming one data point from SM coordinates to GSM coordinates. ct=time_double('2008-02-16/04:50:00') dipole=[[0],[0],[1]] v=[1,2,3] store_data,'dipole_sm','dapole_gsm',/SM2GSM cotrans,'dipole_gsm','dipole_gsm',/SM2GSM cotrans,'dipole_gse','data=dipole_gse xdipgse=dipole_gse.y[0] ydipgse=dipole_gse',data=dipole_gse xdipgse=dipole_gse.y[0] ydipgse=dipole_gse.y[1] zdipgse=dipole_gse.y[2] tilt=atan(xdipgse,zdipgse) When I check the data for 'dipole_gsm', the values are 0,0,0. I'm not sure what they SHOULD be, but I know that their magnitude should equal 1. sqrt(x^2+y^2+z^2)=1		Christine	3	Jim L	
	Jim M					
2199	AE Index - quality control check plots for traces without gaps	8/3/2009	Vassilis	1	Jim M	Train Tohbans to edit file. See Tai and Jonathan
2048	Process full resolution for March 1-15 2008, Jan 15 2009 and onward.		Vassilis	1	Jim M	March 1-15, 2008 complete. Start Jan 15, 2009 at Jan 28,2009 and processing. Second processor Feb 17,2009. Going to March 15, 2009
2056	SCM L2 cdf		Vassilis	1	Jim M	test files have to be sent to SPDF with enhanced meta data
2228	one outstanding issue with THM_LOAD/THM_CAL_EFI is that for some reason when I ask for the calibrated data in SPG (which should just be adjustment of gains and offsets, and conversion from ADC units to physical units, the code is trying to do some despin operations. Since this has direct impact on my ability to evaluate the EFI data quality.	9/3/2009	John Bonnell	1	Jim M	fix awaiting JB review, eta 10/15
2225	L2 EFI cdf (quality flags)	8/31/2004	Vassilis	1	Jim M	in progress all done except quality flags. That to
2234	ESA velocity (thb - 8/11/09) less than 10 to the -10 change to nan's	9/8/2009	Vladimir	1	Jim M	come 10/15 test files to be created eta 9/30
2232	MOM - quality flags converted to binary, saturation flag, solar wind flag		Vladimir	1	Jim M	test files to be created eta 9/30
LLOL	and maneuver flag, data desc and processing history web page updates. Change pointer to Processing History in master cdf.	5/0/2005	Viddimi		onn w	
2233	ESA - quality flags converted to binary, maneuver flag, data desc and processing history web page updates. Change pointer to Processing History in master cdf.	9/8/2009	Vladimir	1	Jim M	test files to be created eta 9/30
2245	ESA and MOM Reprocessing when 2232-2234 are done, update data description and processing history web pages	9/10/2009	Vladimir	1	Jim M	
	L2 SST cdf revisions Data Description Paragraphs - EFI, SCM, FFT, ASI and GMAG	8/31/2004	Vassilis David	1 2+	Jim M Jim M	awaiting SST calibrations
2254 2099e	Review all Summary Plot Changes from Vladimir Integrating Npot code.	9/21/2009 7/24/2009	Vassilis Toshi	2+ 2+	Jim M Jim M	This is Nishimura's stand-alone routine. I envision it being called by THM_SCPOT2DENS (as an option) which would be called by THM_FITGMOM_OVERVIEWS. In discussion between Angelopoulos, McFadden, and Nishamura.
2252	a routine thm_l1gen_scmode, which will generate spacecraft mode	9/23/2009	Pat	2+	Jim M	in progress eta 10/2
	CDFs with values detected from the data.(so the values are actual mode, not requested values from issr housekeeping quantity). This needs to be integrated into our daily processing and reprocessed back to the beginning of the mission. I figured this is probably in Jim's ballpark. The master cdfs are in \$svnroot/thmsoc/trunk/idl/thmsoc/l1gen/mastercdfs/					
2183b	L0->L1 Processing determine start and stop times of particle burst	7/27/2009	Vassilis	2	Pat	Jim M to add peridoic processing
2057	modes and put into an L1 cdf. SCM CAL File Processing Doc		Vassilis	2	Jim M	text completed. Put into std document format and
_007				-	U	send to Olivier for review

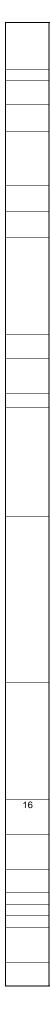
2058	found 3 errors in the new th*_l2_esa masters - the good news is, with them fixed in our masters, all plotting issues w/ the ESA files (in		Vassilis	2	Jim M	
	CDAWeb) seem to have been resolved.					
2060	L2 cdf Quality Flags: for SST		Vassilis	2	Jim M	
2175	L2 File Definitions Document - awaiting L1 document to be completed to use as template.		David	2	Jim M	
2062	Alberta - At the moment the data files are from Dawson (daws),		Vassilis	2	Jim M	
2002	Churchill (fchu), Island Lake (isll) and Fort McMurray (mcmu). I will		vassilis	2	JIIIIW	
	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					
2087	Administrator's Guide		Vassilis	2	Jim M	
2088	Themis Developers Guide		Vassilis	2	Jim M	
2224	thm_load_mom: for quantities like velocity, the coordinate system isn't		Vassilis	2	Jim M	
	stored in the meta data, and none of the units are stored in the place			_		
	we normally try to store them (from Pat - Vassilis concurs) Will take a					
	look.					
2090	that streamlines the generation of gmag stackplots and a crib to show		Vassilis	2	Jim M	
2090	how to do this. (< than a day)		Vassilis	2	JITTIV	
0004			N/ 11	_		
2091	Once Jim McFadden completes his mods for n_3d_new_3 reprocess		Vassilis	2	Jim M	
	L2 cdf's - entire mission			-		
2092	thm_load_mom changes - reconcile mods with Davin at an		Vassilis	2	Jim M	
0055	appropriate time.		N/ 11	_		
2055	ESA L2 from L1 (not packets) - create L2 and test thoroughly, then		Vassilis	2+	Jim M	On Hold; awaiting Jim L to split L1 into master cdf
0000	reprocess ESA		N/ 11	_		
2093	AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis:		Vassilis	3	Jim M	
	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	
2100	EFI calibration		John Bonnell	3	Jim M	
2100d	DC offset between 4sdo and 2sdo in boom plane		John Bonnell	3	Jim M	Which is better? Assigned to J. B. (low priority).
	Try to track down frequency scaling problem in DPWRSPC (dlimit		John Bonnell	3	.lim M	On Hold - low priority
2100u	Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?)		John Bonnell	3	Jim M	On Hold - low priority
2100h	setting? Compare to old plots?).					On Hold - low priority
	setting? Compare to old plots?). Modify THM_CAL_FIT to treat efs datatype - Install E12/E34		John Bonnell John Bonnell	3 3	Jim M Jim M	On Hold - low priority
2100h	setting? Compare to old plots?).					On Hold - low priority
2100h	setting? Compare to old plots?). Modify THM_CAL_FIT to treat efs datatype - Install E12/E34 conditional based on th?_fit_code TPLOT variable. If E12 switched to					On Hold - low priority
2100h	setting? Compare to old plots?). 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 Pat					On Hold - low priority
2100h 2100p 2069	setting? Compare to old plots?). 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 Pat Support Mirror Sites					On Hold - low priority
2100h 2100p 2069	setting? Compare to old plots?). 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 Pat		John Bonnell	3	Jim M	On Hold - low priority
2100h 2100p 2069 2069a	setting? Compare to old plots?). 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 Pat Support Mirror Sites		John Bonnell Vassilis	3	Jim M	On Hold - low priority
2100h 2100p 2069 2069a	setting? Compare to old plots?). 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 Pat Support Mirror Sites Japan (ISAS)		John Bonnell Vassilis Vassilis	3 0 0	Jim M Pat Pat	On Hold - low priority (Rumi - not always up to date for gmags)
2100h 2100p 2069 2069a 2069b 2069b 2069c 2070	setting? Compare to old plots?). 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 Pat Support Mirror Sites Japan (ISAS) Austria France Support gmag data remote sites		John Bonnell Vassilis Vassilis Vassilis	3 0 0 0	Jim M Pat Pat Pat	
2100h 2100p 2069 2069a 2069b 2069b 2069c 2070	setting? Compare to old plots?). 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 Pat Support Mirror Sites Japan (ISAS) Austria France		John Bonnell Vassilis Vassilis Vassilis Vassilis	3 0 0 0 0	Jim M Pat Pat Pat Pat	
2100h 2100p 2069 2069a 2069b 2069b 2069c 2070 2070a	setting? Compare to old plots?). 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 Pat Support Mirror Sites Japan (ISAS) Austria France Support gmag data remote sites Augsburg (MACC's) Alberta		John Bonnell Vassilis Vassilis Vassilis Vassilis Vassilis	3 0 0 0 0 0 0	Jim M Pat Pat Pat Pat Pat	
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2100h 2100p 20699 2069b 2069c 20700 20700 20700 2070c 2070c 2034g 2085h	setting? Compare to old plots?). 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 Pat Support Mirror Sites Japan (ISAS) Austria France Support gmag data remote sites Augsburg (MACC's) Alberta Greenland revised QA script for STATE (path finder for other scripts to be revised later) change plot key The routine PEN to GSM (or probably better PEN to GEO) requires bird position (r, geolon, geolat is best for these geosynchronous birds) and time as input; then it can be used generically for any GOES satellite. It can be tested against existing birds. The task can therefore be very simple: from geolat/long you determine PEN directions for the new coordinate system, then create a time dependent rotation matrix		John Bonnell Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis	3 0 0 0 0 0 0 0 0 0 0 1 2	Jim M Pat Pat Pat Pat Pat Pat Pat Pat Pat	(Rumi - not always up to date for gmags)
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2100h 2100p 2069a 2069b 2069c 2070 2070a 2070b 2070c 2070c 2034g 2085h	setting? Compare to old plots?). 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 Pat Support Mirror Sites Japan (ISAS) Austria France Support gmag data remote sites Augsburg (MACC's) Alberta Greenland revised QA script for STATE (path finder for other scripts to be revised later) change plot key The routine PEN to GSM (or probably better PEN to GEO) requires bird position (r, geolon, geolat is best for these geosynchronous birds) and time as input; then it can be used generically for any GOES satellite. It can be tested against existing birds. The task can therefore be very simple: from geolat/long you determine PEN directions for the new coordinate system, then create a time dependent rotation matrix at some low resolution (perhaps 10 min) and rotate the supplied vector by interpolating. To make it faster, since the spacecraft position		John Bonnell Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis	3 0 0 0 0 0 0 0 0 0 0 1 2	Jim M Pat Pat Pat Pat Pat Pat Pat Pat Pat	(Rumi - not always up to date for gmags)
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2100h 2100p 2069 2069a 2069b 2069c 2070 2070a 2070b 2070c 2070c 2034g 2085h	setting? Compare to old plots?). 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 Pat Support Mirror Sites Japan (ISAS) Austria France Support gmag data remote sites Augsburg (MACC's) Alberta Greenland revised QA script for STATE (path finder for other scripts to be revised later) change plot key The routine PEN to GSM (or probably better PEN to GEO) requires bird position (r, geolon, geolat is best for these geosynchronous birds) and time as input; then it can be used generically for any GOES satellite. It can be tested against existing birds. The task can therefore be very simple: from geolat/long you determine PEN directions for the new coordinate system, then create a time dependent rotation matrix at some low resolution (perhaps 10 min) and rotate the supplied vector by interpolating. To make it faster, since the spacecraft position does not change in GEO cords very fast, you can put in a keyword of		John Bonnell Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis Vassilis	3 0 0 0 0 0 0 0 0 0 0 1 2	Jim M Pat Pat Pat Pat Pat Pat Pat Pat Pat	(Rumi - not always up to date for gmags)
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2218	Can you change the way the plot menu switches plots? If I start with TH-A and zoom in to a 2 hr plot, then switch to TH-B, the web page automatically zooms out to the whole day. Can we change it so it stays on a 2 hr scale? I thought it used to do this. It would also be useful if when one changed s/c, it automatically updated the plots without having to further click on the display button. This way you could set all the other buttons ,mo,date,time), and then just change the s/c.	9/21/2009	Jim McFadden	2	Pat	
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	Pat	in progress
2147a	Decide on how to represent tables for use in thm_cal_fgm (keep as ASCII? convert to CDF?), get full set of corrections, convert to the desired format, install somewhere under /disks/themisdata (probably alongside FGM cal files?)		FGM Team	2	Pat	
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	Pat	
2147c	Reprocess L2 FGM products with enhanced code		FGM Team	2	Pat	It might make sense to delay 2147c and 2148b L2 reprocessing until the 2149d L1 reprocessing is performed.
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	Pat	
2089	Thm_fgm_overviews currently loads the data out of the fit file. It should probably load the data out of the fgm file. Only needs to load from one data source. Jim M thinks the thm_load_fit can be deleted		Vassilis	2	Pat	
2076	SM coord transformation in thm_cotrans does not work: fixing that would be too drastic a change for a patch release, because it might break a lot of existing code. The issue is: if the in_coord parameter is not explicitly specified, and the dlimits structure also does not specify the coordinate system, do we want to try to figure it out from the "in_suffix" argument (current behavior, doesn't work for SM coords), or just fail with a message that a coordinate system must be specified with either the in_coord argument or dlimit structure (probably a better solution, but might break existing code).		Vassilis	2	Pat	Issue Warning and not to let it fail. Clarification Needed
2136	When we implemented tplot_gui, we gave it support for the most important tplot options, but not many of the more obscure ones. It might be worthwhile to create a task for someone to go through exhaustively and implement as many tplot options as is feasible. That way people can more easily use the gui like an interactive version of tplot. Right now I feel like the more obscure options end up leading to gui plots that still look reasonably different from tplot plots.		Pat	2	Pat	use tplot crib sheets to identify tplot options - get list together
2115	tplot does not fail gracefully after illegal margin set. In this case: tplot_options,'xmargin',[100,100], tplot does not fail gracefully after illegal margin set. In this case: tplot_options,'xmargin',[-1,-1] -tplot does not fail gracefully after illegal margin set. In this case: tplot_options,'ymargin',[100,100]			2	Pat	
2176	I ran into a small annoyance today when loading a themis document. I had originally loaded ESA and SST data for one time period, then overwrote that data by loading the same quantities but for a different time period. I did this several times and then saved the document for later. When re-opening the document I got a series of prompts asking whether I would like to re-write each quantity. It would speed up and streamline the process in this case if data that was later overwritten is not loaded when you open the document.	7/20/2009	Aaron	2	Pat	I spoke to Pat about this yesterday and we both agreed that while we cannot be sure which quantities should be re-loaded and which shouldn't (some may have been used temporarily for calculations). However, we can store the users's original choice to overwrite the data or not. So while we may not be able to save on loading time we can still keep the user from having to click multiple messages and from having to remember
2201	One feature that was never implemented for the mini-language is globbing.(The ability to use '*' and '?' to reference multiple tplot variables at once.) This is a feature that is standard with many of our other tplot data processing routines. I think it would be very useful to include in the mini-language.	8/5/2009	Pat	2	Pat	
2187	I noticed a bug in the x-axis options panel. It probably also applies to the y-axis options. If the set-all button is selected on the grid tab, then changing panels doesn't update the settings on the grid tab to the settings currently displayed for that panel.	7/29/2009	Pat	2	Pat	set to most recent user action for all routines
2041	thm_load_state out_coord velocity calculations wrong		Vassilis	2	Pat	

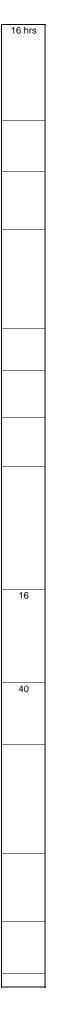
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1102 1102	2135			Pat/Jim L	3	Pat	
plots in the same color as the line, the legend text did not show up. We should probably just put in a check for this case. If the line is white and the background is white then draw the text in black Image: Color Co							
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. Pat 3 Pat originally part of task 64, however, after further evaluation, it was determined this best belonged with 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 use of a layout with 2-panels each with one spectrogram, when I apply this change, it gets applied to both panels, even if set-all is off. 8/27/2009 Pat 3 Pat 447 Save THEMIS document: Attempting to save to a read only file in Windows outputs the correct error message, but IDL crashes IDL Error report to ITT	2124	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		Pat	3	Pat	
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 evaluation, it was determined this best belonged with the widget tree rather than the analysis 	2063	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		Aaron	3	Pat	
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