Task #	Task Description To be Assigned or Discussed	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate (hrs)
3067	117. Degap popup queries for every quantity	2/11/2010	Pat			annoyance	1-2 hrs
3068	120. GUI GMAG cotrans error, says coordinate system is undefined	2/11/2010	Pat				tbd
3069	122. GUI marker subset should be able to subset all plots on a page, perhaps do automatically if axes are locked	2/11/2010	Pat			new feature	2-3 hrs
3071	If you remove a panel in a page with more than one panel, it will move your selection to another panel and desensitizes the "edit" button. It shouldn't desensitize the "edit" button because it has moved the cursor to another valid selection.	2/11/2010	Pat				2 hrs
3072	Related to #1 if you remove all the traces in a panel, it moves you selection to that panel and desensitizes the "edit" button. The edit button is valid for the panel it moves your selection to.	2/11/2010	Pat			with 3071	n/a
3073	I have been contacted by somebody trying to download THEMIS all- sky data. To see the problem go to the "Data retrieval", and "Data files - By group". Select "Ground", "Fort Yukon", "All sky imager", and "Level 1 CDF High Res". Then select for instance 10/29/2008 to 10/30/2008 and press "Download Data". It will show "*Sorry, no files were found for the criteria entered", *though the files clearly exist.	2/12/2010	Harald for User			To see the problem go to the "Data retrieval", and "Data files - By group". Select "Ground", "Fort Yukon", "All sky imager", and "Level 1 CDF High Res". Then select for instance 10/29/2008 to 10/30/2008 and press "Download Data". It will show "*Sorry, no files were found for the criteria entered", *though the files clearly exist. What's the problem?	tbd
	129. GUI interpolate when downsampling data, queries for each 132. GUI layout options 'edit' button desensitized when it shouldn't be, e.g. after deleting a panel or deleting all traces in a panel	2/12/2010 2/12/2010	Pat Pat			Annoyance, should use yes-to-all/no-to-all widget Low priority, can click on another panel as workaround - see 3071	2-3 hrs n/a
	133. GUI trace labels not updated when variable name changed 134. GUI, CL bfit data, inconsistent results cotransing to GSM	2/12/2010 2/12/2010	Aaron Aaron			Data type not a 3-vector. Change thm_load_fit to skip cotrans for bfit/efit, figure out why thm_cotrans allows it	tbd tbd
	119. CL EFI load & cotrans result of cotrans from spg to dsl 110. GUI spinner widget, inconsistencies between actual and displayed value for very small numbers	2/12/2010 2/12/2010	Jim M Pat			Disable in gui SPG->any cotrans of EFI data Support exponential notation for very small values	1 hr tbd
3080	113. GUI load data errors loading L2 ESA data, "different number of X and Y components" when adding tha_pe?r_mode data	2/12/2010	Jim M			L2 file is bad, timestamp count differs from sample count	1 hr
3081	In t96.pro it checks for the model input parameters (pdyn, dst, by, bz) using the KEYWORD_SET() function. This prevents the user from calling the T96 model with by or bz explicitly set to 0.0 change this part to if n_elements(by) eq 0 then	2/16/2010	Dr Lasse Clausen		Pat	t96 complete	4 hrs
3083	137. GUI spinner controls when inputing value >= 2^16/2 in grid thickness spinner, causes error message and value reset to -32768.	2/16/2010	Pat			Probably short data type used where long required, affects many of the spinner controls	tbd
3084	139. GUI variable options more status bar/history window updates needed.	2/16/2010	Aaron			the only message that ever printed was "1: Cannot Set Value variable, no variables"	1 hr
3085	138. GUI SCM cotrans inconsistent results depending on starting/ending coordinate systems.	2/18/2010	Jim M			Also should check if same problem exists with command line?	tbd
3086	add MACCS gmag data from 2007 to our data archive. We already have MACCS data for some years and a process that automatically downloads it/converts to CDF. So the task would involve finding missing files from 2007 and feeding them into our pre-existing processing framework. It should be pretty straightforward, but probably non-trivial because of learning curve/unexpected details.	2/19/2010	James Weygand		Pat		8 hrs
3091	Add a configuration setting "force_download", which if enabled, will download data even if the remote file is older than the local file. This comes up if you're switching back and forth between using QA data and production data; once you've downloaded QA data, it's hard to download (usually older) production data without manually removing any QA files. This should apply to all data sources THEMIS, GOES, WIND, etc.	2/22/2010	Vassilis		Pat		4 hrs
	"thm_load_mom should load ESA sweep mode variables from L1 MOM CDF"	2/23/2010	Jim L		Jim M		
3099 4000							
4001	General						
2186	I noticed that the Data->Collaboration Tools->(subcategories) fall behind the ARTEMIS graphic.	7/28/2009	Michael	2	Amanda	Run Compatiability View in Internet Explorer	
	Incorporate electron calibration into data Enhanced SST and MOM Instrument Web Pages	10/25/2009	Vassilis David		Davin Davin		
	EAC offsets	8/1/2009	John Bonnell	2	John B	John has taken AC coupled data -> he will get me the	
2216	Fix the sign reversal of e34. 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	8/13/2009 9/8/2009	Michael Jim M	tbd	John B John B	Etc 10/23 Review Jim's fix, Eta 10/23	
	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,						
3078	119. CL EFI load & cotrans result of cotrans from spg to dsl	2/12/2010	Jim M			Disable SPG->any cotrans of EFI data in GUI	

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	Harald						
3094	Sort out Disk Space and Harware needed for 2010	2/22/2010	David	1	Harald		
					Jon Loran		
	ASI software - running fine as of 11 January 2010, L1's and mosaics				Harald		
	are up-to-date.						
	Thumbnail Data:				Harald	Updates ready 7-10th of the next month	
	- cdf files done until January 31, 2010					opulates ready in roan or ano next memorial	
	- overview plots done until January 31, 2010						
	- movies done until January 31, 2010						
	Full-resolution raw data:				Harald		
	- complete for 2007 and 2008				Haraiu		
	- reasonably complete until mid April-2009						
	Full resolution data:				Harald	need to finish processing of data that were on transfer	
	- data cdf done for all 2007 and 2008 and until 03/31/09					drives from Calgary	<u> </u>
	- keogram cdf done for 2007 and 2008 and until 02/28/09			-			
	, and the second						
	Web site mosaics and movies: - Mosaics and movies reprocessed for 2007/2008 season						
	- Mosaics and movies reprocessed for 2007/2008 season - Mosaics and movies reprocessed for 2008/2009 season			-		November 2008 mosaics to be reprocessed	
	modules and movies reprocessed for 2000/2005 season					November 2000 mosaics to be reprocessed	
	Web site overview plots with full resolution data:						
	- overview plots done for 2007 and 2008 and until 02/28/09					Need to update with data on transfer drives from	
20604	UCLA – mirror site set-up		Vassilis	1	Harald	Calgary UCB has sent 4 bricks to UCLA. After brick transfer	-
20090	OCLA - Millor Site Set-up		Vassilis	'	пагаш	UCLA will need to supply SSH key - RSYNC Key.	
	Hannes						
2273	Attitude Determination changed based on spin tone removals?	10/19/2009	Hannes	0	Hannes	Hannes will process See 3023	
2074c	quality flag for FGM data		Vassilis	2	Hannes	on hold	
2082a	Spin modeling during shadows BugZid=43		Vassilis	2	Hannes	Jim L to write routine. Hannes send info.	
	Aaron						
	VMO file generation (EFI and SCM)		David	1	Aaron		
	One variable change to ASI files and possibly the whole repository		David	1	Aaron	changes sent to Jan	
	SCM and EFI L2 variables V03 L2 STATE - revision needed?		David David	1	Aaron Aaron	Ready to go? Ask Jim M. send Jan an email	
	104. GUI part_getspec crash in thm_part_moments2 with non-	2/10/2010	Aaron	1	Aaron	Solid dall all chiali	
3000	default arguments	2/10/2010	Aaion	'	Aaioii		
3065	68. GUI z-axis options when Fixed Min/Max selected, value in	2/10/2010	Aaron	1	Aaron		
	spinners does not reflect current range as it does for X and Y axes.						
	Displayed range when spinners desensitized is inaccurate.						
	2-D, 3-D slices enhancements					Talk to Andrea, Christine, Shanshan	
2013m	User's Guide write-up and then review with Xuzhi		David	1	Aaron	First create outline,	
2013h	Main:	11/13/2009	Vassilis	1	Aaron	in progress	
201311	Temporal slider Bar - in progress	11/13/2003	Vassilis		Adion	in progress	
	Export to .png file						
	Allow for use outside GUI						
2013j	Plotting:		Vassilis	1	Aaron	on hold until 2013h completed	
,	Contour lines					'	
	Display min/max						
	Title information (same as old slices code) Specify x,y,z ranges						
	Axes titles Axes ticks Plot ESA boundary						
2013k	Create our own version of slicer3.pro that can take user input to		Vassilis	1	Aaron	will be completed when 2013h completed	
	setup colors, orientation, etc. when it's called.						
20131	Integrate our own slicer3.pro gui with regular 2-D slice plots.		Vassilis	1	Aaron	will be completed when 2013h completed	
		4/45/0040	Λ	-	Λ		
3042	33. QA: GUI panel options only updates panel titles on startup.	1/15/2010	Aaron	1	Aaron	.	
3046	Fix labels/change coords for on-board moment velocity plots. Data is DSL, label says GSM	1/25/2010	Vassilis / Miyashita	1	Aaron		
3051	EFW spike removal	2/1/2010	Vassilis	1	Aaron		
	We don't have support for filled symbols. This means symbols are	12/11/2009	Pat	2	Aaron		1 day
3016	There is no way to control the variable font size from the variable	12/11/2009	Pat	2	Aaron		1/2 day
	panel. There was a barrier to adding features to the variable panel						
	when this came up before, in terms of a design that was too complex to modify reliably. When I fixed some previous bugs in this panel I						
	simplified the code considerably. I now think that adding this feature						
	is feasible.						
3031	GUI Overview plots sometimes have diamond shaped artifacts in the	1/5/2010	Vassilis	2	Aaron	This is a side-effect of the a way that symbols are	
5031	sample rate bar. Should fix.	1/3/2010	v assills		AdiUII	used as a hack to generate the sample rate bar. Fix	
	,					after 3014 is fixed.	
3001	I'm getting a crash in the calculate window after I delete the text in	12/7/2009	Aaron	2	Aaron	found during EFI testing	
	the program area and then click on a data quantity from the tree.						
0050	The error message is below.	0/00/0000	Oh-:-!	_	A		
ZZ53	Fix crib errors - Christine's list of 9/23/09	9/23/2009	Christine	2	Aaron		

2027-	Finishing the according to the restaurant of the three land at the date of	1	\/===:l:=	0	A = = = =	ant allow value it its as had	
2027e	Finishing the coordinate transformation of the thm_load_state data at input, to include transformation of spinaxis attitude, need to		Vassilis	2	Aaron	not allow velocity to go bad	
	determine keyword switch, implement the rotation of the spinaxis						
	elevation/azimuth from gei to arbitrary coordinates (consult with Pat,						
	Vassilis)						
1579	When importing a variable with a valid 'V' component in its data		Pat	3	Aaron		
	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			3	Aaron		
	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.			ļ.,			
2028	Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi,		Vassilis	3	Aaron		
	gmag, _ask, _mom, _esa_pkt						
				ļ			
	From Hannes		Hannes	3	Aaron		
2029a	Provided is the most common plot used by scientists that look at		Hannes	3	Aaron		
	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	 	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.						
2020-			11		A		
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.		Hannes	3	Aaron		
	should all be empty. It could be those variables still contain data from						
	the previously loaded interval.						
2030	upgrade thm_load to work with probe assignments		Vassilis	3	Aaron		
	773						
2031	move functionality of thm_load_state2 into thm_load_state and delete		Vassilis	3	Aaron		
	thm_load_state2						
2032	Multiple enhancements concerning keywords, valid_names and		Vassilis	3	Aaron		
	thm_load routines						
	Cindy						
	Jim L						
	Copy attitude-corrected version 02 state data into v03 files	1/11/2010		0	Jim L	Will be completed with next reprocessing	<u> </u>
3037	Support new apid 44F (survey FFT) in tmtools L0 packet processing			1	Jim L	re-run flatsat test by 3/5 to acquire new data	
3087	code. There is some flatsat data waiting to be analyzed a test of a new	2/19/2010	Jim L	1	Jim L	flatsat	
5001	IDPU FSW patch to the moment compression. That should go on	2, 10,2010	JIII L		JIII E	- Indiana	
	the task list with a fairly high priority, since we'll need it soon for the						
	Artemis probes.						
2000	The old only period data (which is close to what was accounted as	2/22/2010	Vaccilia	4	lim !	in progress etc 2/5	1 wook
3089	The old spin period data (which is close to what was assumed on board by the IDPU) needs to be corrected to reflect that precisely	2/22/2010	Vassilis	1	Jim L	in progress - eta 3/5	1 week
	also during the eclipse. This is now interpolated during shadow to						
	avoid spinphase jumps at the ends, but should be corrected to						
	reflect what the IDPU was thinking based on housekeeping (spinper						
	differs by ~msecs but this adds up quickly). This can be added into						
	the same spinper file if it does not increase file size much. (Else						
	represent the differences).						
3090	Then one needs to correct the particle distributions to be	2/22/2010	Vassilis	1	Jim McFadden	3089 is prerequisite	
	introduced in the same orientation. I.e., should use the corrected						
	spinphase upon being introduced (on the fly). This means the particle						
	loading software needs to read the above difference between						
	corrected and uncorrected spinphase, and apply a rotation to the distribution functions upon reading. This should be done with a						
	keyword first, and routinely when we get into orbit (by which time the						
	shadow spinphase determinations will hopefully be automated). I						
		1		1	1		
	think McFadden is the one to do this but he can also assign it.						

	Task list and discussion item for Monday: correction of particle data when using modeled eclipse sun pulse data. The onboard particle data is acquired assuming a constant spin period through the eclipse. Other data gets processed using a different spin model,	2/22/2010	Vassilis	1	Jim L	See 3089	n/a
	incorporating the modeled sun pulses during the eclipse, rather than the onboard spin period. So they are really in different coordinate systems the one using the modeled sun pulses is close to "true" [DSL, while the one using the onboard spin period ("pseudo-DSL")						
	slowly rotates with respect to true DSL when the probe is in eclipse. We need to have a way to convert back and forth between them.						
	Maybe the state CDF needs to contain two sets of spin model parameters, one with eclipse corrections and one without, so TDAS						vocament voc
	has access to one or the other on the fly. This could be done with a /no_eclipse_corrections keyword in the spinmodel routines, which						
	would give something close to the onboard spin model. Or, perhaps						vocano con a
	we need something completely different based on the spin period reported in the apid 404 housekeeping telemetry.						
3038	Update sample timing code to be compatible with apid 44F decimated FFTs.			1	Jim L	in progress	
	VC->L0 processing issue for outer probes	2/10/2010	Jim L	11	Jim L		
3041	Update load & cal routines to handle survey FFTs Update overview plots to handle survey FFTs?			1	Jim L Jim L		
	47. CL specplot missing peib data for tests 25 and 26 write a routine to check time tag monotonicity and repair tplot	1/15/2010	Jim M Jim L and	1 1	Jim L Jim L	Data exists, but isn't plotted for some reason. assign when 2149e started. Michael: Since it is difficult	
2149g	white a routine to check time tag indictionary and repair thou variable if necessary (with options for "replace with NaN" and "delete")		Michael	•	JIIIL	or impossible (in post-processing) to identify all of the bad time tags (or even some of them e.g., the fast-	
						>slow case), I recommend that we just remove what is needed to make the time tags monotonic, and issue a	
						warning indicating that the user should consult the THEMIS software team about that data.	
2266	Timing of Spin Fit data	10/16/2009	Jim	1	Jim L		and the second
2149h	integrate time tag fixer-upper with TDAS load routines		McFadden Jim L	1	Jim L		
2248	once in a while (maybe 10-20 occurrences per probe during the entire mission), the FGM range doesn't change on all three axes at once:	9/10/2009	Jim L	1	Jim L	see 2149g and h	
	Automate processing of eclipse sunpulse data from FGM team	2/22/2010	Jim L	2+	Jim L		3-4 days
	Enhance L0->L1 processing script to update V03 state, if present, along with V01 and V02 state.	2/23/2010	Jim L	2+	Jim L		2 days
	Spin modeling during shadows BugZid=43 Split L1 ESA (using Thomas's routine) in master ESA data cdf		Vassilis Vassilis	2	Hannes Jim L	Jim L to write routine. Hannes send info. On Hold - awaiting Jim McFadden release: Then send David Sub Task List; Calibration variables removed from L1 data master CDF. (Side note: found and reported a bug in SKTEditor, which the Goddard team has agreed to fix) Waiting for feedback from Jim McFadden about how calibration data should be handled (TH-A ASCII calibration file (used for all probes) doesn't match anything I removed from the data CDF).	
2036	GOES 10-12 Test data: h. update labels (Howard's request - minor tweak)		Vassilis	2	Jim L	determine if to be reassigned	
	STATE Web Page (s) bad timing sun pulse times (early January 2009)		Vassilis Vassilis	2	Jim L	review web pages Clarification needed	
	L1 Data Processing History Info: SCM, EFI, STATE		Vassilis	2	Jim L Jim L	Ciamication needed	
2043	Refactor repeated CDF library code in CDF processing tools BugZid=50		Vassilis	2	Jim L		
	Create a more efficient & productive prototype QA Instrument Command Line Script - first template (s) functional blocks then scripts for FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag, State, SST, ESA		Vassilis	2	Jim L	In progress. Several templates created, selecting the appropriate command line routines to test.	
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		Vassilis	2	Jim L		
2047a	V01 files around for a while to ease the transition) BugzID=45 FGS sample times and values, showing repeated timestamps.		Vassilis	2	Jim L		
	BugzID=113 (BugzID=67 must be done first) Repeated timestamps and gaps in spin fit data BugZid=113 (#67 may		Vassilis	2	Jim L		
1		1					
2077	fix this one as well). Non Monotonic timestamps. BugzID=72		Vassilis	2	Jim L		
	Non Monotonic timestamps. BugzID=72						
2078			Vassilis Vassilis Vassilis	2 2 3	Jim L Jim L Jim L		
2078 2080	Non Monotonic timestamps. BugzID=72 bau_sunpulse_met assumes x86 endiannes (BugzID=13) Phantom packets" cause non-monotonic distribution times.		Vassilis	2	Jim L		

2084	. transforming one data point from SM coordinates to GSM coordinates. ct=time_double('2008-02-16/04:50:00') dipole=[[0],[0],[1]] v=[1,2,3] store_data,'dipole_sm','data=(x:ct,y:dipole,v:v) cotrans,'dipole_sm','dipole_gsm','SM2GSM cotrans,'dipole_gsm','dipole_gse','GSM2GSE get_data,'dipole_gse',data=dipole_gse xdipgse=dipole_gse.y[0] ydipgse=dipole_gse.y[1] zdipgse=dipole_gse.y[2] tilt=atan(xdipgse,zdipgse) When I check the data for 'dipole_gsm', the values are 0,0,0. I'm not sure what they SHOULD be, but I know that their magnitude should equal 1. sqrt(x^2+y^2+z^2)=1		Christine	3	Jim L		
3006	While looking at some plotting issues Jim McTiernan and I found an	12/8/2009	Vassilis	0	Jim M	All Overview Plots will be reprocessed post L2	
	issue with the burst summary plots. Maybe that this was intended some time ago but I don't think it's right. I attach two plots. The file Tohban_esaburst_20091201_0024.png is what you get on the web site. The bursts on THA, THD, and THE all appear as about 6 hours long. My own plot burst_20091201.gif shows all the bursts with their correct time durations. Somehow the overview plot routing extends each burst by something like +-3 hours. I don't think that this is correct and I suggest it should be changed.					rerocess.	
3010	March 1-15 mosaics should get reprocessed	12/9/2009	Harald	0	Jim M	Processing March 9 2002 currently	
3036	Reprocess L2 FGM products with enhanced code		FGM Team	0	Jim M	Awaiting V03 state (Hannes 2273, Jim L 3035)	
	Reprocessing	2/22/2010	Project	0	Jim M	Task 3080, New v03 STATE, fgm, fit, mom, esa, scm, efi	3 days
3088	I have created the following text file using IDL line commands. I have	2/22/2010	Kazue	0	Jim M		
	specified the coordinates to be "gse", but the "COORDINATE		Takahashi -				
	SYSTEM" header line says "dsl". Which coordinate system is used for the output file?		JHU				
2045	,	12/11/2000	Dot	#had	lim A4	lim M to access	1
3015	The data processing panel doesn't allow split components. This is fine for some operations, even required, but for some operations this doesn't make sense. For example, clipping. There is a good chance that some people will want to clip each component at separate values.	12/11/2009	Pat	tbd	Jim M	Jim M to assess	1 week
2056	SCM L2 cdf		Vassilis	1	Jim M	Awaiting feedback -Olivier needs a ping.	
2228	one outstanding issue with THM_LOAD/THM_CAL_EFI is that for	9/3/2009	John Bonnell	1	Jim M	fix awaiting JB review, eta 10/15	
	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,						
2225	L2 EFI cdf (quality flags)	8/31/2004	Vassilis	1	Jim M	in progress all done except quality flags. That to come 02/2010. Then test files to be sent to SPDF and Jon Bonnell	
3057	I found an issue in the program trange_clip.pro located in the	2/5/2010	Lynn Wilson	1	Jim M		
	directory: ~/themis/spacecraft/fields/LASP/ There appears to be no error handling to deal with the possible issue of the variable "i1" being greater than "i2". Thus, if the program chooses two times where there is only one data point nearby, it will assign the same index to both variables, which results in the program crashing. One could add this to line 41 or make a simple logical test to avoid the issue.						
	L2 SST cdf revisions	8/31/2004	Vassilis	2+	Jim M	awaiting SST calibrations	
	Data Processing History Web Pages - SST, SCM, FGM, FBK, FIT had expected that this cotrans would occur at the very end, after all	12/15/2009 11/12/2009	David Jim	2+ 2	Jim M Jim M	Also activate links from Data Desc Web page see 2256	
2057	the calibration code. But the calibration itself seems to be affected, SCM CAL File Processing Doc		Vassilis	2	Jim M	text completed. Put into std document format and send to Olivier for review	
	There is another aspect to this problem. Dead-time corrections are severe for ion ESA SW data and there are no dead-time corrections for onboard moments. Some algorithm will have to be developed that does this correction after the fact. Davin developed an algorithm like this for Wind 3DP. That algorithm may not work directly due to differences in energy sweeps, but something like it could be developed for THEMIS. Davin and I can provide some advice and direction. Similarly electron onboard moments in the SW may also need some corrections this should also be worked out at the same time.	11/2/2009	Jim Mcfadden	2	Jim M	ONVIOLIGITORIEW	
	found 3 errors in the new th*_I2_esa masters - the good news is, with them fixed in our masters, all plotting issues w/ the ESA files (in CDAWeb) seem to have been resolved.		Vassilis	2	Jim M		
2060	L2 cdf Quality Flags: for SST		Vassilis	2	Jim M		
2175	L2 File Definitions Document		David	2	Jim M		

Ct ac						
ac	lberta - At the moment the data files are from Dawson (daws),		Vassilis	2	Jim M	
ac	hurchill (fchu), Island Lake (isll) and Fort McMurray (mcmu). I will					
1 1						
1	dd Rabbit Lake and Taloyoak at some time but we have some					
I iss	sues with mag pointing at those 2 sites. If you recall, the agreement					
1 2						
3	etween Ian and Vassilis was that this data wouldn't be copied to					
b€	ecome part of a mirrored archive like the existing data we provide.					
In	stead, each file would be obtained from this site each time it is					
1 8						
re	equested (using curl or some such). This means we can use our					
OV	wn logs to monitor data usage. Themis Software to be able to					
1						
	etrieve from Alberta		ļ			
2087 Ac	dministrator's Guide		Vassilis	2	Jim M	
	hemis Developers Guide		Vassilis	2	Jim M	
			· · · · · · · · · · · · · · · · · · ·	*		
2224 th	m_load_mom: for quantities like velocity, the coordinate system		Vassilis	2	Jim M	
isı	n't stored in the meta data, and none of the units are stored in the					
1	,					
pla	ace we normally try to store them (from Pat - Vassilis concurs) Will					
ta	ke a look.					
2090 th	at streamlines the generation of gmag stackplots and a crib to		Vassilis	2	Jim M	
					-	
	now how to do this. (< than a day)					
2091 Oi	nce Jim McFadden completes his mods for n_3d_new_3 reprocess		Vassilis	2	Jim M	
1 2	2 cdf's - entire mission					
			Magailia		lim M	
2092 th	m_load_mom changes - reconcile mods with Davin at an		Vassilis	2	Jim M	
ar	opropriate time.					
2055 F1	SA 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
			Vassilis	_	JIIII IVI	Off Flord, awaiting Jim E to Split ET into master cur
re	process ESA					
2002 41	E Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis:		Vassilis	3	Jim M	
			v assilis	3	JIIII IVI	
m	inor nuisance		<u> </u>		L	
2094 0	verview plot change: mode bar seems thick		Vassilis	3	Jim M	nothing we can do easily
	osaic Processing - permanent script needed		Vassilis	3	Jim M	
2100 EF	FI calibration		John Bonnell	3	Jim M	
					J /*/	
L						
2100d D	C offset between 4sdo and 2sdo in boom plane		John Bonnell	3	Jim M	Which is better? Assigned to J. B. (low priority).
					-	(, , , , , , , , , , , , , , , , , , ,
			<u> </u>			
2100h Tr	ry to track down frequency scaling problem in DPWRSPC (dlimit		John Bonnell	3	Jim M	On Hold - low priority
	etting? Compare to old plots?).					
2100p M	odify THM_CAL_FIT to treat efs datatype - Install E12/E34		John Bonnell	3	Jim M	
CC	onditional based on th?_fit_code TPLOT variable. If E12 switched to					
(E)	34 software needs to be revised to handle					
	D-4					
	Pat					
2069 Si	upport Mirror Sites		Vassilis	0	Pat	
			·	0		
	apan (ISAS)		Vassilis	• · · · · · · · · · · · · · · · · · · ·	Pat	
2069b Au	ustria		Vassilis	0	Pat	
2069c Fr	rance		Vassilis	0	Pat	(Rumi - not always up to date for gmags)
2070 St	upport gmag data remote sites.		Vassilis	0	Pat	The -12 days ones are ones that Kathryn indicated are
						on the fritz: BMLS,UKIA,HOTS,PINE.
2070a Aı	ugsburg (MACC's)		Vassilis	0	Pat	
20.00 (, 10	agosary (IIII 100 o)		1 4000			
1	lharta		Vassilis	0	Pat	
2070b Al			·/			
2070b Al			Vassilis	0	Pat	
2070b All 2070c Gi	reenland		v accinc	0		
2070c Gı		1/5/2010	·			gap in the data - Calgary was notified
2070c Gr 3033 GI	BO rsync from U Calagary is failing. Contacting Emma Spanswick	1/5/2010	Pat/Jim M	0	Pat	gap in the data - Calgary was notified
2070c Gr 3033 GI		1/5/2010	·			gap in the data - Calgary was notified
2070c Gr 3033 Gl to	BO rsync from U Calagary is failing. Contacting Emma Spanswick determine source of problem.		Pat/Jim M	0	Pat	
2070c Gr 3033 Gr to 3034 Rs	BO rsync from U Calagary is failing. Contacting Emma Spanswick determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and	1/5/2010	·			Working out problems with SSH public-key
2070c Gr 3033 Gl to 3034 Rs re	BO rsync from U Calagary is failing. Contacting Emma Spanswick determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed.	12/7/2009	Pat/Jim M Jim M	0	Pat Pat	
2070c Gr 3033 Gl to 3034 Rs re	BO rsync from U Calagary is failing. Contacting Emma Spanswick determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed.		Pat/Jim M Jim M	0	Pat	Working out problems with SSH public-key autheticationmaybe try http
2070c Gr 3033 Gl to 3034 Rs re 2265 W	BO rsync from U Calagary is failing. Contacting Emma Spanswick determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed. //hen new FGM Cal files come from David Fisher reprocess last 6	12/7/2009	Pat/Jim M Jim M	0	Pat Pat	Working out problems with SSH public-key
2070c Gr 3033 GI to 3034 Rs re 2265 W	BO rsync from U Calagary is failing. Contacting Emma Spanswick determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed. //hen new FGM Cal files come from David Fisher reprocess last 6 onths.	12/7/2009 10/16/2009	Pat/Jim M Jim M Pat	0 0	Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing
2070c Gr 3033 GI to 3034 Rs re 2265 W	BO rsync from U Calagary is failing. Contacting Emma Spanswick determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed. //hen new FGM Cal files come from David Fisher reprocess last 6	12/7/2009	Pat/Jim M Jim M Pat	0	Pat Pat	Working out problems with SSH public-key autheticationmaybe try http
2070c Gi 3033 Gi to 3034 Rs re 2265 W mi 2239b Lc	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed. Ihen new FGM Cal files come from David Fisher reprocess last 6 onths. Dad Panel Bug: Loading state data for any probe and requesting	12/7/2009 10/16/2009	Pat/Jim M Jim M Pat	0 0	Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing
2070c G 3033 Gl to 3034 Rs re 2265 W m 2239b Lc	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed. // when new FGM Cal files come from David Fisher reprocess last 6 onths. pad Panel Bug: Loading state data for any probe and requesting vel 1 data type '*', it doesn't load all the support types(spinras)	12/7/2009 10/16/2009	Pat/Jim M Jim M Pat	0 0	Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing
2070c G 3033 Gl to 3034 Rs re 2265 W mi 2239b Lc	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed. Ihen new FGM Cal files come from David Fisher reprocess last 6 onths. Dad Panel Bug: Loading state data for any probe and requesting	12/7/2009 10/16/2009	Pat/Jim M Jim M Pat	0 0	Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing
2070c Gi 3033 Gi to 3034 Re re 2265 W mi 2239b Lc level	BO rsync from U Calagary is failing. Contacting Emma Spanswick determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed. //hen new FGM Cal files come from David Fisher reprocess last 6 onths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type '*', it doesn't load all the support types(spinras ic). This also doesn't work if I shift-select all the quantities in the	12/7/2009 10/16/2009	Pat/Jim M Jim M Pat	0 0	Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing
2070c Gi 3033 Gi to 3034 Re re 2265 W mc 2239b Lc level etc	BO rsync from U Calagary is failing. Contacting Emma Spanswick determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed. //hen new FGM Cal files come from David Fisher reprocess last 6 onths. oad Panel Bug: Loading state data for any probe and requesting ovel 1 data type '*', it doesn't load all the support types(spinras ic). This also doesn't work if I shift-select all the quantities in the pe list.	12/7/2009 10/16/2009 11/13/2009	Pat/Jim M Jim M Pat Cindy	0 0 0	Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy
2070c Gi 3033 Gi to 3034 Re re 2265 W mc 2239b Lc level etc	BO rsync from U Calagary is failing. Contacting Emma Spanswick determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed. //hen new FGM Cal files come from David Fisher reprocess last 6 onths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type '*', it doesn't load all the support types(spinras ic). This also doesn't work if I shift-select all the quantities in the	12/7/2009 10/16/2009	Pat/Jim M Jim M Pat Cindy	0 0	Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing
2070c Gi 3033 Gi to 3034 Rs re 2265 W mi 2239b Lc lei etr tyj 2239c Lc	BO rsync from U Calagary is failing. Contacting Emma Spanswick determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed. //hen new FGM Cal files come from David Fisher reprocess last 6 onths. oad Panel Bug: Loading state data for any probe and requesting ovel 1 data type '*', it doesn't load all the support types(spinras ic). This also doesn't work if I shift-select all the quantities in the pe list.	12/7/2009 10/16/2009 11/13/2009	Pat/Jim M Jim M Pat Cindy	0 0 0	Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy
2070c Gi 3033 Gi to 3034 Rs re 2265 W mi 2239b Lc lei ett tyj 2239c Lc sta	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. Sync to GIMA server is failing. Ualaska Server was replaced and enamed. Then new FGM Cal files come from David Fisher reprocess last 6 onths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type "", it doesn't load all the support types(spinras cc). This also doesn't work if I shift-select all the quantities in the pe list. Dad Panel Bug: When trying to load gmag data from the gui ation=kian, I got the following crash: % Attempt to subscript	12/7/2009 10/16/2009 11/13/2009	Pat/Jim M Jim M Pat Cindy	0 0 0	Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy
2070c Gi 3033 Gi to 3034 Re re 2265 W mi 2239b Lc lei etr tyj 2239c Lc str	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed. Then new FGM Cal files come from David Fisher reprocess last 6 onths. and Panel Bug: Loading state data for any probe and requesting vel 1 data type ", it doesn't load all the support types(spinras cc). This also doesn't work if I shift-select all the quantities in the pel list. Dad Panel Bug: When trying to load gmag data from the gui ation-kian, I got the following crash: % Attempt to subscript EW_TVARS with NEW_VARS_IND is out of range. % Execution	12/7/2009 10/16/2009 11/13/2009	Pat/Jim M Jim M Pat Cindy	0 0 0 1	Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy
2070c Gi 3033 Gi to 3034 Re re 2265 W mi 2239b Lc lei etr tyj 2239c Lc str	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. Sync to GIMA server is failing. Ualaska Server was replaced and enamed. Then new FGM Cal files come from David Fisher reprocess last 6 onths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type "", it doesn't load all the support types(spinras cc). This also doesn't work if I shift-select all the quantities in the pe list. Dad Panel Bug: When trying to load gmag data from the gui ation=kian, I got the following crash: % Attempt to subscript	12/7/2009 10/16/2009 11/13/2009	Pat/Jim M Jim M Pat Cindy	0 0 0 1	Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy
2070c Gi 3033 Gi to 3034 Re re 2265 W mi 2239b Lc lev etr y 2239c Lc str Ni ha	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. Sync to GIMA server is failing. Ualaska Server was replaced and enamed. Then new FGM Cal files come from David Fisher reprocess last 6 onths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type ", it doesn't load all the support types(spinras cc). This also doesn't work if I shift-select all the quantities in the pel list. Dad Panel Bug: When trying to load gmag data from the gui ation=kian, I got the following crash: % Attempt to subscript EW_TVARS with NEW_VARS_IND is out of range. % Execution alted at: THM_UI_NEW_LOAD_DATA2OBJ 543	12/7/2009 10/16/2009 11/13/2009 11/13/2009	Pat/Jim M Jim M Pat Cindy Cindy	0 0 1	Pat Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy discuss with Cindy
2070c Gi 3033 Gi to 3034 Re re 2265 W mm 2239b Lc levet tyj 2239c Lc str NI ha 3025 SS	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and inamed. Then new FGM Cal files come from David Fisher reprocess last 6 conths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type "", it doesn't load all the support types(spinras cc). This also doesn't work if I shift-select all the quantities in the pel list. Dad Panel Bug: When trying to load gmag data from the gui ation-kian, I got the following crash: % Attempt to subscript EW_TVARS with NEW_VARS_IND is out of range. % Execution alted at: THM_UI_NEW_LOAD_DATA2OBJ 543 ST Code development	12/7/2009 10/16/2009 11/13/2009 11/13/2009 12/18/2009	Pat/Jim M Jim M Pat Cindy Cindy Davin	0 0 1 1 1	Pat Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy discuss with Cindy
2070c Gi 3033 Gi to 3034 Re re 2265 W mm 2239b Lc levet tyj 2239c Lc str NI ha	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. Sync to GIMA server is failing. Ualaska Server was replaced and enamed. Then new FGM Cal files come from David Fisher reprocess last 6 onths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type ", it doesn't load all the support types(spinras cc). This also doesn't work if I shift-select all the quantities in the pel list. Dad Panel Bug: When trying to load gmag data from the gui ation=kian, I got the following crash: % Attempt to subscript EW_TVARS with NEW_VARS_IND is out of range. % Execution alted at: THM_UI_NEW_LOAD_DATA2OBJ 543	12/7/2009 10/16/2009 11/13/2009 11/13/2009	Pat/Jim M Jim M Pat Cindy Cindy Davin	0 0 1	Pat Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy discuss with Cindy
2070c Gi 3033 Gi to 3034 Re re 2265 W mm 2239b Lc levet tyj 2239c Lc str NI ha 3025 SS	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and inamed. Then new FGM Cal files come from David Fisher reprocess last 6 conths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type "", it doesn't load all the support types(spinras cc). This also doesn't work if I shift-select all the quantities in the pel list. Dad Panel Bug: When trying to load gmag data from the gui ation-kian, I got the following crash: % Attempt to subscript EW_TVARS with NEW_VARS_IND is out of range. % Execution alted at: THM_UI_NEW_LOAD_DATA2OBJ 543 ST Code development	12/7/2009 10/16/2009 11/13/2009 11/13/2009 12/18/2009	Pat/Jim M Jim M Pat Cindy Cindy Davin	0 0 1 1 1	Pat Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy discuss with Cindy Vassilis to call Davin waiting for receipt of code from Davin. He said that it
2070c Gi 3033 Gi to 3034 Rs re 2265 W m 2239b Lc let et tyl 2239c Ls st NII ha	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed. // hen new FGM Cal files come from David Fisher reprocess last 6 onths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type '*', it doesn't load all the support types(spinras ic). This also doesn't work if I shift-select all the quantities in the pe list. Dad Panel Bug: When trying to load gmag data from the gui atton=kian, I got the following crash: % Attempt to subscript EW_TVARS with NEW_VARS_IND is out of range. % Execution alted at: THM_UI_NEW_LOAD_DATA2OBJ 543 ST Code development ebug source code from Davin to determine source of crash	12/7/2009 10/16/2009 11/13/2009 11/13/2009 12/18/2009 12/18/2009	Pat/Jim M Jim M Pat Cindy Cindy Davin Davin	0 0 1 1 1 1 1 1	Pat Pat Pat Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy discuss with Cindy Vassilis to call Davin waiting for receipt of code from Davin. He said that it crashes on 1/10 days but doesn't yet know why.
2070c Gi 3033 Gi to 3034 Rs re 2265 W m 2239b Lc let et tyj 2239c Lc sta NI has 3025 SS 3055 De	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and inamed. Then new FGM Cal files come from David Fisher reprocess last 6 conths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type "", it doesn't load all the support types(spinras cc). This also doesn't work if I shift-select all the quantities in the pel list. Dad Panel Bug: When trying to load gmag data from the gui ation-kian, I got the following crash: % Attempt to subscript EW_TVARS with NEW_VARS_IND is out of range. % Execution alted at: THM_UI_NEW_LOAD_DATA2OBJ 543 ST Code development	12/7/2009 10/16/2009 11/13/2009 11/13/2009 12/18/2009	Pat/Jim M Jim M Pat Cindy Cindy Davin Davin	0 0 1 1 1	Pat Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy discuss with Cindy Vassilis to call Davin waiting for receipt of code from Davin. He said that it
2070c Gi 3033 Gi to 3034 Rs re 2265 W 2239b Lc lev ett tyj 2239c Lc sta NI ha 3025 Ss 3055 De	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and enamed. Then new FGM Cal files come from David Fisher reprocess last 6 conths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type "", it doesn't load all the support types(spinras cc). This also doesn't work if I shift-select all the quantities in the pe list. Dad Panel Bug: When trying to load gmag data from the gui ation=kian, I got the following crash: % Attempt to subscript EW_TVARS with NEW_VARS_IND is out of range. % Execution alted at: THM_UI_NEW_LOAD_DATA2OBJ 543 ST Code development ebug source code from Davin to determine source of crash doesn't work if and the source of crash.	12/7/2009 10/16/2009 11/13/2009 11/13/2009 12/18/2009 12/18/2009	Pat/Jim M Jim M Pat Cindy Cindy Davin Davin	0 0 1 1 1 1 1 1	Pat Pat Pat Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy discuss with Cindy Vassilis to call Davin waiting for receipt of code from Davin. He said that it crashes on 1/10 days but doesn't yet know why. I sent an email asking for clarifications to Davin,
2070c Gi 3033 Gi to 3034 Re re 2265 W m 2239b Lc lev et tyj 2239c Lc sta Ni ha 3025 SS 3055 De	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. Sync to GIMA server is failing. Ualaska Server was replaced and enamed. Then new FGM Cal files come from David Fisher reprocess last 6 conths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type "", it doesn't load all the support types(spinras cc). This also doesn't work if I shift-select all the quantities in the pel list. Dad Panel Bug: When trying to load gmag data from the gui ation=kian, I got the following crash: % Attempt to subscript EW_TVARS with NEW_VARS_IND is out of range. % Execution alted at: THM_UI_NEW_LOAD_DATA2OBJ 543 ST Code development ebug source code from Davin to determine source of crash did modification to SST moment -alculations(thm_part_moments/thm_part_moments2) that would	12/7/2009 10/16/2009 11/13/2009 11/13/2009 12/18/2009 12/18/2009	Pat/Jim M Jim M Pat Cindy Cindy Davin Davin	0 0 1 1 1 1 1 1	Pat Pat Pat Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy Vassilis to call Davin waiting for receipt of code from Davin. He said that it crashes on 1/10 days but doesn't yet know why. I sent an email asking for clarifications to Davin, specifically which method out of several should I use
2070c Gi 3033 Gi to 3034 Re re 2265 W mi 2239b Lc lev etr 51239c Lc sta Ni ha 3025 SS 3055 De 3056 Ac ca all	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and inamed. Then new FGM Cal files come from David Fisher reprocess last 6 onths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type ", it doesn't load all the support types(spinras cc). This also doesn't work if I shift-select all the quantities in the pel list. Dad Panel Bug: When trying to load gmag data from the gui ation-kian, I got the following crash: % Attempt to subscript EW_TVARS with NEW_VARS_IND is out of range. % Execution alted at: THM_UI_NEW_LOAD_DATA2OBJ 543 ST Code development ebug source code from Davin to determine source of crash alculations(thm_part_moments/thm_part_moments2) that would low application of scalar corrections to moments when the	12/7/2009 10/16/2009 11/13/2009 11/13/2009 12/18/2009 12/18/2009	Pat/Jim M Jim M Pat Cindy Cindy Davin Davin	0 0 1 1 1 1 1 1	Pat Pat Pat Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy discuss with Cindy Vassilis to call Davin waiting for receipt of code from Davin. He said that it crashes on 1/10 days but doesn't yet know why. I sent an email asking for clarifications to Davin, specifically which method out of several should I use to determine whether spacecraft is in solar wind. I've
2070c Gi 3033 Gi to 3034 Re re 2265 W mi 2239b Lc lev etr 51239c Lc sta Ni ha 3025 SS 3055 De	BO rsync from U Calagary is failing. Contacting Emma Spanswick of determine source of problem. sync to GIMA server is failing. Ualaska Server was replaced and inamed. Then new FGM Cal files come from David Fisher reprocess last 6 onths. Dad Panel Bug: Loading state data for any probe and requesting vel 1 data type ", it doesn't load all the support types(spinras cc). This also doesn't work if I shift-select all the quantities in the pel list. Dad Panel Bug: When trying to load gmag data from the gui ation-kian, I got the following crash: % Attempt to subscript EW_TVARS with NEW_VARS_IND is out of range. % Execution alted at: THM_UI_NEW_LOAD_DATA2OBJ 543 ST Code development ebug source code from Davin to determine source of crash alculations(thm_part_moments/thm_part_moments2) that would low application of scalar corrections to moments when the	12/7/2009 10/16/2009 11/13/2009 11/13/2009 12/18/2009 12/18/2009	Pat/Jim M Jim M Pat Cindy Cindy Davin Davin	0 0 1 1 1 1 1 1	Pat Pat Pat Pat Pat Pat Pat	Working out problems with SSH public-key autheticationmaybe try http ongoing discuss with Cindy discuss with Cindy Vassilis to call Davin waiting for receipt of code from Davin. He said that it crashes on 1/10 days but doesn't yet know why. I sent an email asking for clarifications to Davin, specifically which method out of several should I use to determine whether spacecraft is in solar wind. I've
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3029	This happened on a fresh session after loading all L1 EFI variables	1/4/2010	Aaron	1	Pat	Discuss possible solutions. Provide better information	
	for 2009-02-09 probe C and attempting to plot the fast survey data (I had similar problems last month plotting EFI wave burst data). The plots still appeared in the draw window after Layout Options crashed, but panel tracking was off, the gui ran very slow, and even after removing some deleting variable to free memory I had to reset IDL to get everything working. Traceback Report from THM_UI_LAYOUT_OPTIONS_EVENT:					to use on data size so that user can avoid problem themselves. E.g., right click on a variable and have the GUI tell you how much memory.	
2280	Retrieval of ASCII Data - Including 2009.	10/29/2009	Laura	1	Pat	Reprocessing is in progress. After reprocessing is	
	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.	10/29/2003	Pat	1	Pat	in progress	
3043	36. GUI interpolate error with multiple quantities selected and one is out of range bad item not skipped, following items not processed.	1/15/2010	Pat	1	Pat	#2 Loaded data for data 2007-03-24. Types: efi_vaw, tha_fgl_dsl,tha_fgh_dsl. Make all data active. In the order above(I believe exact order is important). Open interpolate panel, select "cadence" radio button, leave at default, select limit time, leave at default for quantity vaw(2007-03-24/22:47:06,2007-03-24:22:47:22). Select "Okay", it processes first quantity, then second quantity is out of range, produces error but does not process 3rd quantity(fgh). It should skip over #2.	
3044	38. QA: GUI interpolate Interpolating state data to match efi_vaw, "data out of range" error if no state samples fall within the efi_vaw time range.	1/15/2010	Pat	1	Pat	#4 Date 2007-03-24, data efi_vaw, tha_state_pos. Make state active. Select "interpolate", select "match" match to quantity "efi_vaw", select "extrapolate" Select limit time range, select range for efi_vaw (2007- 03-24/22:47:06,2007-03-24:22:47:22): Says no data in range. What is happening here is that there are state points on either side of the vaw interval, but no points inside the interval. Perhaps one possibility where time is limited & matching is being done, maybe it should limit based upon the range of the match quantity and not the range of the target?	
3048a	Profiled EFI calibration can speed up by reducing the number of calls to spinmodel_interp_t. Right now >95% of time is spent in spinmodel. It calls spinmodel_interp_t 2x for each 3d data type, could probably use a single call for multiple data types with the same cadence.	1/25/2010	Pat	1	Pat		
3048b	spinmodel_interp_t loops over each time segment individually. If we vectorize this operation, we could get serious speed increases. Would generate speedups EFI and for other calibration routines.	1/25/2010	Pat	1	Pat		
	The last time we have GBO data is 1/12/10	2/2/2010	K. Rowe	1	Pat		
3058	The size of the windows created by the widgets in IDL for the SCM instrument are too big (at least they were on mine). It was easily remedied by changing the size of the boxes allocated in the probe/Level-1/Level-2 lists in the program thm_ui_scmcal.pro. I simply altered the value passed to the YSIZ keyword in the WIDGET_LIST function call (lines 610 - 628, I think).	2/5/2010	Lynn Wilson	1	Pat		
3053	102. Tplot_gui overwrite warning when importing data, even if variable gets renamed.	2/3/2010	Pat	2	Pat		
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		16
2267	if you want to load a template, you need to pass the template path in via a keyword, or select an option to open it from the THEMIS->File Menu. I think we should consider adding the template path to the configuration file that we save, so that it can be loaded automatically.	10/19/2009	Pat	2	Pat		40
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 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	

	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		
	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		
	Christine brought to my attention a bug that occurs if you use the TDAS tsyganenko routines in a way that is not really something that I expected, but seems to be a legitimate use of the routines. If passing in a set of input parameters that are stored in tplot variables but are not in time-series, the routine produces incorrect results.	11/4/2009	Christine	2	Pat		
	EPO-GMAG msgs: modify the script and only issue this message if > 2 days	12/8/2009	David	3	Pat		
	How's it going with the stats? I noticed the query takes some time because it's looking at the whole table. It could be refined for specific time periods. The delay in return could be what's causing Dave to have access problems - or the SSL firewall?	10/23/2009	Tim	3	Pat	see 2277	
	I didn't realize the cotrans messed up the velocities for earth centered coordinates. Maybe what we really need to do is modify cotrans so that it correctly transforms velocities. Users can incorrectly transform velocities just as easily using thm_cotrans on the command line, as they can using the coord keyword.		Pat/Jim L	3	Pat		
	I loaded a plot which had the line color as white. Because the legend plots in the same color as the line, the legend text did not show up. We should probably just put in a check for this case. If the line is white and the background is white then draw the text in black		Pat	3	Pat		
	Problem with edit3dbins is being caused by IDL's mouse system variable not being updated correctly on Macs. The ctime procedure, used to interactively select a time from a tplot window, relies on this variable to determine when a selection has been made in the tplot window. If the variable is never updated then ctime gets caught in an infinite loop. It's unclear whether this is specific to a particular OS version, but the routine should probably be modified at some point to maximize compatibility with Macs. In the meantime the alternate method of calling gettime that I copied you on yesterday should provide a temporary way around this bug.		Aaron	3	Pat	verify note in quick reference guide and then task will be closed	
	Add the ability to right-click on a variable in the widget-tree and display a popup with basic information about the quantity such as dimensions, range, or other meta data as well as the ability to rename variable		Pat	3	Pat	originally part of task 64, however, after further evaluation, it was determined this best belonged with the widget tree rather than the analysis window	4-8 hrs
	I found a small bug in the z-axis panel in the gui. If I change the z- axis annotation size of a layout with 2-panels each with one spectrogram, when I apply this change, it gets applied to both panels, even if set-all is off.	8/27/2009	Pat	3	Pat		4 hrs
3063	40. CL tplot options setposition test plots all look the same Misc	1/15/2010	Pat	3	Pat	Long-standing tplot bug, may not ever be fixed	16-24 hours
	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	
	inimodiatory antorwards.						4 hrs
				<u> </u>			-