Table			Date					Estimate (hrs)
\$1,000 \$2,000 \$	Task #		Opened				Notes	
March Marc	4104	Possible changes to Solar Wind flags, tables. 8/30/2010 Pat forwarded email from Igor to Davin. Davin thinks it may have to do with attenuator status flag. Will check onboard					Vassilis wants to talk to Davin. 8/30/2010 Pat	
4:500 May 12 Perspecially all and allege — 1997	4109a	Note: L1 Reprocessing ESA, SST, MOM	8/9/2010	Jim L	0	Jim L		
Part					~~~~			
March Marc								
1975	4125							
Second part the Data-Collaboration Toda-cytubolategories 161 202000 Minister 3								
18.56	7127	Consend						
Marie Mari		I noticed that the Data->Collaboration Tools->(subcategories) fall	7/28/2009	Michael	3	Amanda	Run Compatiability View in Internet Explorer	
Security Administrator Golden Security			4/19/2010	Pat	1	Jim L	David - Put Paper into themis doc format - tips du jour?	
Proportional secretion calculation into data 100200000 10020000 10020000 10020000 1002000 1002000 1002000 1002000 1002000 1002000 1002000 1002000 1002000 1002000 1002000 10020000 10020000 10020000 10020000 100200000 10020000000000								***************************************
March Marc					3			
ASI subvairs - numing fine and 25 May 2010, Life and monaies are up to 16 May 2010 and 25 May 2010 and 16 May			6/18/2010		0			***
Marcian International Continue of Marc		Harald	0.10,=0.10					
ordines date with April 30, 2010 convise date with April 30, 2010 convise date with April 30, 2010 - Complete by 2007, 2008, 2009 - constant by						Tiaraid		
Performance						Harald	Updates ready 7-10th of the next month	
Full insolution ninvicture complete for 2007 2008, 2009 Consciolate for 2007 2008, 2009 Consciolate for 2007 2008 and mid New 2009 Consciolate for 2007 2008 and mid nine flower 2007 2009 Consciolate for 2007 2008 and mid nine flower 2009 Consciolate for 2007 2008 and mid nine flower 2009 Consciolate for 2007 2008 and mid nine flower 2009 Consciolate for 2007 2008 and mid nine flower 2009 Consciolate for 2007 2008 and mid nine flower 2009 Consciolate for 2007 2008 and mid nine flower 2009 Consciolate for 2007 2008 and mid nine flower 2009 Consciolate for 2007 2008 and mid nine flower 2009 Consciolate for 2007 2008 and mid nine flower 2009 Consciolate for 2007 2008 Consciolat		- overview plots done until April 30, 2010						100
Correlate for 2007, 2008, 2008 Value action of data Value for four for 2007 and 2008 and mild Nov-2009 Value for four four 2007 and 2008 and mild Nov-2009 Value for four four 2007 and 2008 and mild Nov-2009 Value for four four 2007 and 2008 and mild Nov-2009 Value for four four 2007 and 2008 and mild Nov-2009 Value for four four 2007 and 2008 and mild ind Nov-2009 Value for four four 2007 and 2008 and mild ind Nov-2009 Value for four four 2007 and 2008 and mild ind Nov-2009 Value for four four 2007 and 2008 and mild mild Nov-2009 Value for four four 2007 and 2008 and mild mild Nov-2009 Value for four four 2007 and 2008 and mild mild Nov-2009 Value for four four 2007 and 2008 and mild Nov-2009 Value for four four 2007 and 2008 and mild mild November 2000 Value for four four 2007 and 2008 and mild mild November 2000 Value for four four 2007 and 2008 and mild mild November 2000 Value for four four 2007 and 2008 and mild mild November 2000 Value for four four 2007 and 2008 and mild mild November 2000 Value for four four 2007 and 2008 and mild mild November 2000 Value for four four 2007 and 2008 and mild mild November 2000 Value for four four 2007 and 2008 and mild mild November 2000 Value for four four 2007 and 2008 and mild mild November 2000 Value for four four four 2007 and 2008 and mild mild November 2000 Value for four four four 2007 and 2008 and mild mild November 2000 Value for four four four 2007 and 2008 and 2008 and mild mild November 2000 Value for four four four 2007 and 2008 and 200		- movies done until April 30, 2010						
Accordance your price and marked Exchange 2010 See						Harald		
- data celf done for all 2007 and 2008 and until mid Nov-2009 - keegram celf done for 2007 and 2008 and until mid Nov-2009 - Mosaics and movies reprocessed for 2007 2008 and 2008 2009 - session - Mosaics and movies up to date until April 30, 2010 - Mosaics and movies until 40, 2000 - Mosaics and								
Web site mostaics and movies: Notesians and movies reprocessed for 2007/2008 and 2008/2009 Notesian and movies up to date until April 30, 2010 Web site overview plots with full resolution date: - overview plots with thumbhals done until April 30, 2010 - overview plots with thumbhals done until April 30, 2010 Vassilis - overview plots with thumbhals done until April 30, 2010 - overvie						Harald		
Web site mostaics and movies: Notesians and movies reprocessed for 2007/2008 and 2008/2009 Notesian and movies up to date until April 30, 2010 Web site overview plots with full resolution date: - overview plots with thumbhals done until April 30, 2010 - overview plots with thumbhals done until April 30, 2010 Vassilis - overview plots with thumbhals done until April 30, 2010 - overvie		keogram cdf done for 2007 and 2008 and until mid Nov-2009						
Mosaics and movies reprocessed for 2007/2008 and 2008/2009 sessions - Mosaics and movies pot date until April 30, 2010 Web list overview plots with flumbhails done until April 30, 2010 - overview plots with thumbhails done until April 30, 2010 - overview plots with thumbhails done until April 30, 2010 Committed of the process o								
- Moselsc and movele up to date until April 30, 2010 Web site overview plots with flumbnails done until April 30, 2010 - Hannes - overview plots with flumbnails done until April 30, 2010 - Hannes - overview plots with flumbnails done until April 30, 2010 - Hannes - overview plots with flumbnails done until April 30, 2010 - Hannes - overview plots with flumbnails done until April 30, 2010 - Hannes - overview plots with flumbnails done until April 30, 2010 - Hannes - overview plots with flumbnails done until April 30, 2010 - Hannes - overview plots with flumbnails done until April 30, 2010 - Hannes - overview plots with flumbnails done until April 30, 2010 - Hannes - overview plots with flumbnails done until April 30, 2010 - Hannes - overview plots with flumbnails done until April 30, 2010 - Hannes - overview plots with flumbnails done until April 30, 2010 - Hannes - ove		- Mosaics and movies reprocessed for 2007/2008 and 2008/2009	****					
- overview plots done for 2007 and 2008 and until mid-November 2009 - overview plots with thumbnalis done until April 30, 2010 - overview plots with thumbnalis done until April 30, 2010 - Vassilis -								
2003d UCLA – mirror site set-up Hannes Hannes 6/21/2010 Hannes 1 Hannes		Web site overview plots with full resolution data:						
August Hannes H		- overview plots done for 2007 and 2008 and until mid-November 2009						
Hannes Hannes 4080 Attitude Determination next few months 621/2010 Hannes 1 Hannes will send out new attitude correctionsfor tha, that and the 8/30/2010. Thb and the while in lunar orbit based upon sun angles. Work with UCB Ops folks (Dan Cosgrove). 40340 Ferdinand sent was an attempt on his part to automate the shadow processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it up with him once you have gone through it. 4018a New Calibration FGM parameters and spin axis offsets 4058 This is geting a bit out of hand I think. How about a configuration file? The software light reads keywords from a configuration file? With such a configuration file it possible to set keywords automatically (for the scientists) but additionally it would give us the possibility to keep track of what the software does automatically. When I do calibrations I can then save the configuration file it possible to set keywords automatically. 2074c quality flag for FGM data 2074c flag flag		- overview plots with thumbnails done until April 30, 2010						
Hannes 4080 Attitude Determination next few months 621/2010 Hannes 1 Hannes will send out new attitude correctionsfor the, thid and the 8/30/2010. This and the while in lunar orbit based upon sun angles. Work with UCB Ops folks (Dan Cosgrove). 4034b Ferdinand sent was an attempt on his part to automate the shadow processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it up with him once you have gone through it. 4015a New Calibration FGM parameters and spin axis offsets configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software just reads keywords from a configuration file? The software in the software might have done automatically. When I do calibrations I can then save the configuration file toppers with the results and not worry about the things that the software might have done automatically. When I do calibrations I can the save the configuration file toppers with the results and not worry about the things that the software might have done automatically. When I do calibrations I can the save the configuration file	2069d	UCLA – mirror site set-up		Vassilis	1	Harald		to the state of th
Attitude Determination next few months 6/21/2010 Hannes		Uannas						
Heap		names						
processing, He wanted feedback whether the produced are adequate and if the code is amenable to automation. We can pick it up with him once you have gone through it. 4018a New Calibration FGM parameters and spin axis offsets 405B This is getting a bit out of hand I think. How about a configuration file? The software just reads keywords from a configuration file its getting a bit to possible to set keywords automatically (or the scientists) but additionally it would give us the possibility to keep track of what the software does automatically. When I do calibrations I can then save the configuration file together with the results and not worry about the things that the software might have done automatically. 2074c quality flag for FGM data 2082a Spin modeling during shadows BugZid=43 2073a Possible Contacts: APL, ITT IDL teacher - bug causing software to hand a gainst angular plots. 2013ae Possible Contacts: APL, ITT IDL teacher - bug causing software to against angular plots. 2013ae Verify re-gridded ESA plots against older plots. Check SST effux values against angular plots. 2013a Check on position of SST sun contamination (appears to be in the wrong place) 2013b User's Guide write-up and then review with Xuzhi 2014c Spin modeling during code received from Ferdinand code for th-Ce in progress. 5/10/2010 Hannes 5/10/2010 Hannes 5/10/2010 Hannes 5/10/2010 Hannes 5/10/2010 Hannes 1 Hannes	4080	Attitude Determination next few months		Hannes	1	Hannes	the. 8/30/2010: Thb and thc while in lunar orbit based upon sun angles. Work with UCB Ops folks	
This is getting a bit out of hand I think. How about a configuration file? The software just reads keywords from a configuration file. With such a configuration file it is possible to set keywords automatically (for the scientists) but additionally it would give us the possibility to keep track of what the software does automatically. When I do calibrations I can then save the configuration file together with the results and not worry about the things that the software might have done automatically. 2074c quality flag for FGM data 2082a Spin modeling during shadows BugZid=43 25 Spin modeling during shadows BugZid=43 27 Spin modeling during shadows BugZid=43 28 Spin modeling during shadows BugZid=43 29 Spin modeling during shadows BugZid=43 29 Spin modeling during shadows BugZid=43 20 Spin modeling during shadows BugZid=43		processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it up with him once you have gone through it.		Vassilis	?	Hannes		
The software just reads keywords from a configuration file. With such a configuration file it is possible to set keywords automatically (for the scientists) but additionally it would give us the possibility to keep track of what the software does automatically. When I do calibrations I can then save the configuration file logether with the results and not worry about the things that the software might have done automatically. 2074c quality flag for FGM data 2082a Spin modeling during shadows BugZid=43 2083 Spin modeling during shadows BugZid=43 2083 Spin modeling during shadows BugZid=43 2084 Spin modeling during shadows BugZid=43 2084 Spin modeling during shadows BugZid=43 2085 Spin modeling during shadows BugZid=43 2085 Spin modeling during shadows BugZid=43 2086 Spin modeling during shadows BugZid=43 2087 Spin modeling during shadows BugZid=43 2087 Spin modeling during shadows BugZid=43 2088 Spin modeling during shadows BugZid=43 2088 Spin modeling during shadows BugZid=43 2089 Spin modeling during shadows BugZid=43 2090 S								
2082a Spin modeling during shadows BugZid=43 Vassilis 3 Hannes Jim L to write routine. Hannes send info. Aaron 2013 2-D, 3-D slices enhancements 2013aa Possible Contacts: APL, ITT IDL teacher - bug causing software to hang 2013ae Verify re-gridded ESA plots against older plots. Check SST eflux values against angular plots. 2013ar Check on position of SST sun contamination (appears to be in the wrong place) 2013x User's Guide write-up and then review with Xuzhi 3 Hannes Jim L to write routine. Hannes send info. 4 Aaron Plots sent to vassilis and Xuzhi 4-6 hrs 4-6 hrs 4-6 hrs 4-6 hrs 4-6 hrs 4-6 hrs 4-7 Aaron 4-7 Aaron 4-8 hrs 4-9 Laron		configuration file it is possible to set keywords automatically (for the scientists) but additionally it would give us the possibility to keep track of what the software does automatically. When I do calibrations I can then save the configuration file together with the results and not worry						
Aaron 2013 2-D, 3-D slices enhancements 2013aa Possible Contacts: APL, ITT IDL teacher - bug causing software to hang 2013ae Verify re-gridded ESA plots against older plots. Check SST eflux values against angular plots. 2013r Check on position of SST sun contamination (appears to be in the wrong place) 2013x User's Guide write-up and then review with Xuzhi 2013x Fix labels/change coords for on-board moment velocity plots. Data is 1/25/2010 Vassilis / 1 Aaron 2013x Aaron Plots sent to vassilis and Xuzhi Aaron plots sent to vassilis and Xuzhi Aaron maybe fixed 6-8 hrs 6-8 hrs 7-8 hrs 7-8 hrs 7-8 hrs 7-8 hrs 7-9	2074c	quality flag for FGM data		Vassilis	3	Hannes	on hold	***************************************
2013a Possible Contacts: APL, ITT IDL teacher - bug causing software to hang 2013ae Verify re-gridded ESA plots against older plots. Check SST efflux values against angular plots. 2013ar Check on position of SST sun contamination (appears to be in the wrong place) 2013x User's Guide write-up and then review with Xuzhi 2013x Fix labels/change coords for on-board moment velocity plots. Data is 1/25/2010 Vassilis 1 Aaron 2013x Vassilis 1 Aaron plots sent to vassilis and Xuzhi 2013 Aaron plots sent to vassilis and Xuzhi 2013 Aaron maybe fixed 2013a Aaron 3046 Fix labels/change coords for on-board moment velocity plots. Data is 1/25/2010 Vassilis / 1 Aaron	2082a	Spin modeling during shadows BugZid=43		Vassilis	3	Hannes	Jim L to write routine. Hannes send info.	
Possible Contacts: APL, ITT IDL teacher - bug causing software to hang Verify re-gridded ESA plots against older plots. Check SST effux values against angular plots. Vassilis Vassilis 1 Aaron plots sent to vassilis and Xuzhi 4-6 hrs Check on position of SST sun contamination (appears to be in the wrong place) Vassilis 1 Aaron plots sent to vassilis and Xuzhi 4-6 hrs Aaron maybe fixed 6-8 hrs Vassilis Vassilis 1 Aaron Aaron maybe fixed 6-8 hrs Fix labels/change coords for on-board moment velocity plots. Data is 1/25/2010 Vassilis / 1 Aaron	2012			Vassilia	1	Aaron		
2013ae Verify re-gridded ESA plots against older plots. Check SST eflux values against angular plots. 2013r Check on position of SST sun contamination (appears to be in the wrong place) 2013x User's Guide write-up and then review with Xuzhi 3046 Fix labels/change coords for on-board moment velocity plots. Data is 1/25/2010 Vassilis / 1 Aaron	2013aa	Possible Contacts: APL, ITT IDL teacher - bug causing software to					plots sent to vassilis and Xuzhi	
against angular plots. Check on position of SST sun contamination (appears to be in the wrong place) User's Guide write-up and then review with Xuzhi David Time Aaron David Aaron Aaron Aaron Bix labels/change coords for on-board moment velocity plots. Data is 1/25/2010 Vassilis Aaron Aaron				Vaccilia		Aoros	plate cont to vaccilie and Vurbi	1 C bro
wrong place) 2013x User's Guide write-up and then review with Xuzhi 3046 Fix labels/change coords for on-board moment velocity plots. Data is 1/25/2010 Vassilis / 1 Aaron		against angular plots.						
3046 Fix labels/change coords for on-board moment velocity plots. Data is 1/25/2010 Vassilis / 1 Aaron				Vassilis	1	Aaron	maybe fixed	6-8 hrs
	2013x	User's Guide write-up and then review with Xuzhi		David	1	Aaron		
			1/25/2010		1	Aaron		

3042	33. QA: GUI panel options only updates panel titles on startup. Changes while window is open not applied until it's re-opened.	1/15/2010	Aaron	1	Aaron		
3001	I'm getting a crash in the calculate window after I delete the text in the	12/7/2009	Aaron	1	Aaron	found during EFI testing	
	program area and then click on a data quantity from the tree. The error message is below.						
3079	110. GUI spinner widget, inconsistencies between actual and displayed value for very small numbers	2/12/2010	Pat	2	Aaron	Support exponential notation for very small values	
3079a	Spinner Part	2/12/2010	Pat	2	Aaron		
3079b	FormatAnnotation Part	2/12/2010	Pat	2	Aaron	The format routine is incorrectly deciding the # of significant digits in a number when using decimal format. I think this may have been done originally for simplicity but it should be fixed	4-5 hrs
	137. GUI spinner controls when inputing value >= 2^16/2 in grid	2/16/2010	Pat	2	Aaron	Probably short data type used where long required,	6-10 hrs
	thickness spinner, causes error message and value reset to -32768. Pat: Problem is not the spinner. Object definitions using short ints when long ints should have been used.					affects many of the spinner controls	
	Finishing the coordinate transformation of the thm_load_state data at input, to include transformation of spinaxis attitude, need to determine keyword switch, implement the rotation of the spinaxis elevation/azimuth from gei to arbitrary coordinates (consult with Pat, Vassilis)		Vassilis	2	Aaron	not allow velocity to go bad	1 hr
2013af	Mark one count level (dashed line)		Vassilis	2	Aaron	Vassilis wants to talk to Jim Mcfadden about this. Jim McFadden to review email.	
	combine SST and ESA slices into a single plot?		Vassilis	2	Aaron		2 days
	Allow for loading of user-specified distributions in gui. 8/23/10 Per Vassilis: For 2013t instead of allowing user specified distributions in the gui I will be adding an option to compare slices with specified functions		Vassilis	2	Aaron		4-6 hrs
2013w	Integrate our own slicer3.pro gui with regular 2-D slice plots.		Vassilis	2	Aaron		2 days
	We don't have support for filled symbols. This means symbols are only	12/11/2009	Pat	3	Aaron		
	outlines. There is no way to control the variable font size from the variable 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.	12/11/2009	Pat	3	Aaron		1 day
	GUI Overview plots sometimes have diamond shaped artifacts in the sample rate bar. Should fix.	1/5/2010	Vassilis	3	Aaron	This is a side-effect of the a way that symbols are used as a hack to generate the sample rate bar. Fix after 3014 is fixed.	1/2 day
1579	When importing a variable with a valid 'V' component in its data struct, but no spec flag set in its meta data, the loaded data object fails to load the y-axis. This should be fixed, as it ends up incorrectly loading certain spectral quantities.		Pat	4	Aaron		
	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.			4	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	4	Aaron		
2029	From Hannes		Hannes	4	Aaron		
	Provided is the most common plot used by scientists that look at		Hannes	4	Aaron		
	The level 2 CDF files at http://themis.ssl.berkeley.edu/data_download.shtml should contain position in various coordinate systems as well. Preferably in the same resolution as the data. Otherwise Scientists need to get the position from another source. Notes from Vassilis: option to introduce the data in RE with keyword (one RE =6,478 kilometers ???). Like thm_load_fgm /pos_units= 'RE'. Also thm_load_state keyword out_coord = 'GSM', 'GSE',etc.		Hannes	4	Aaron		
	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	4	Aaron		
2030	upgrade thm_load to work with probe assignments		Vassilis	4	Aaron		
	move functionality of thm_load_state2 into thm_load_state and delete thm_load_state2		Vassilis	4	Aaron		
	Multiple enhancements concerning keywords, valid_names and thm_load routines		Vassilis	4	Aaron		
	Cindy			Ţ.,			
	Jim L						
4102	L0-L1 Processing bug - solar wind flag. Send users tips du jour cocenring all aspects of the solar wind flags.	7/26/2010	Pat	0	Jim L	fixed in trunk; add to next tmtoils release and reprocess L0->L1>L2 MOM, ESA, SST eta week of 9/7-9/11. Jim to send David a writeup of new full configuration mode for SST, ESA and MOM.	

	I am a postdoc from UCLA working on the THEMIS data. The recently added FFF data is very helpful in our study with higher frequency resolution and longer time availability. I looked at FFF data and compared with FFP data during particle burst and attached a couple of examples as follows. In the attached figures, top three panels are electric field (1. FFP, 2. FFF, 3. closest FFP data at FFF recording times), and bottom three panels are magnetic field (4. FFP, 5. FFF, 6. closest FFP data at FFF recording times). As we can see from the figures, FFF data generally agrees well with FFP data, but sometimes is associated with a short time shift (e.g., ~10-05-12/12:51:54 UT). When closed a warning needs to be sent to users.	8/16/2010	Wen Li	0		I've had a chance to take a closer look at the FFF (apid 44f) vs. FFP (apid 44d) timing discrepancy you pointed out. I have a tool that tries to match the FFF samples bin-by-bin with the FFP samples, to locate the data points that are common to the two data sets, report the matching indices, and show any time differences found for the matching samples. Please refer to the attached output file fff_comparison.tx. It seems that the IDPU is occasionally skipping over some of the FFP samples, and not copying them into the FFF data stream. 8/30/2010 Jim L to send out an email (high priority) to get a flatsat case setup.	
4030	cross-check SST psir6 and psif data types for excess counts in psir6	4/8/2010	Jim McFadden	1	Jim L	Talk to Davin as well.	
4030a	Review Onboard Scripts for possible error.	5/17/2010	Jim Lewis	1	Jim McFadden, Davin, Robert Abiad	can duplicate on flatsat. Jim Mcfadden to review Jim L's email.	
4030b	Correct Existing Data	5/17/2010	Jim McFadden	1	Jim L	4030a prerequsite	
4030c	If scripts change - make changes to processing scripts	5/17/2010	Jim Lewis	1	Jim L	4030a prerequsite	
	Ferdinand sent was an attempt on his part to automate the shadow processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it up with him once you have gone through it.	4/14/2010	Vassilis	1	Jim L	Jim to review eclipse flag. Jim to review th-C from Ferdinand. eta week of 8/16-8/20	
4074	possible 2 sec error in L1 FBK timestamps	6/10/2010	Vassilis	1	Jim L	all will be closed with the reprocessing	
	Figure out whether there's a problem with L1 FBK, and whether L1 FFT is also susceptible to a similar problem.	6/10/2010	Vassilis	1	Jim L		
4074b	If necessary, update the L0->L1 processing code, and verify that this fixes the problem	6/10/2010	Vassilis	1	Jim L		
	Respond to SPDF's email concenring L1 cdf's. Include words as to what is in the L1 cdf's that are not in the L2 cdf's that users may want to use.	3/25/2010	David	1	Jim L		
	Build new release of tmtools, reprocess L1 FBK and L1 FFT for the entire mission.	6/10/2010	Vassilis	1	Jim L	all remaining 4074 tasks eta week of 8/16-8/20	
	Reprocess L2 FBK and L2 FFT	6/10/2010	Vassilis	1	Jim M	dependent on 4074c to be completed	
4074f 4027a	Build new release of tmtools, reprocess L1 SST for the entire mission. Reprocess L2 SST In reviewing the metadata in these GOES masters, it seems the value of the global attributes TEXT has gotten cut off	6/10/2010 6/10/2010 4/5/2010	Vassilis Vassilis Tami - SPDF	1 1	Jim L Jim M Jim L	in progress - awaiting task 4030 for SST tmtools mods dependent on 4074f to be completed Done, pending SPDF approval of latest revision of master CDFs.	
4027b	Reprocessing GOES Data	4/5/2010	Tami - SPDF	1	Jim L	Reprocessing on hold until Howard Singer delivers another batch of binary GOES data files.	
	"Add support to thm_cotrans, ssl2gse, and ssl2dsl for /pseudo_dsl keyword. If keyword is present, look for and apply eclipse delta_phi corrections as appropriate."	6/1/2010	Jim L	1	Jim L	thm_load_fit and thm_load_mom, add keyword. In progress - Will review code Davin checked-in concerning tensor quantities in thm_load_mom.	
	write a routine to check time tag monotonicity and repair tplot variable if necessary (with options for "replace with NaN" and "delete")		Jim L	1		Create a routine to clean up tplot variables. Use in the load routines were susceptible. 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 McFadden	1	Jim L	out.	
	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	Jim L		
	integrate time tag fixer-upper with TDAS load routines	0/45/5	Jim L	1	Jim L	242	
	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	
	He requested some extra datetime formats. A. Numerical month & time (ie 2007-03-23/00:00:00). this option isn't listed.	3/12/2010	Pat from a scientist (Martin	1	Jim L		
	He said there is an ANSI standard to separate date & time using a capital T and requested the option to put datetimes in this format. (ie '2007-03-23T00:00:00')	3/12/2010	Pat from a scientist (Martin Connors?)	1	Jim L		2 hrs
	Our "save data as" menu doesn't remember the previous directory > that the user saved to. It could and it should.	3/12/2010	Pat from a scientist (Martin Connors?)	1	Jim L		see above
	Unintended installation of state CDFs during selective L0->L1 Update L1 master cdfs to support SPDF hosting	8/16/2010 3/25/2010	Jim L David	1 3+	Jim L Jim L		
	Automate processing of eclipse sunpulse data from FGM team	2/22/2010	Jim L	3+	Jim L		
4046	Spinfits - separate E&B timestamps? either thm_load_fit or the GUI code that calls thm_load_fit should split the data into separate tplot variables for E and B, before importing them into the GUI data model. I think thm_load_fft already does something like this. See task 4040	4/15/2010 4/23/2010	Jim L Pat	3	Jim L Jim L	SPDF has issue creating plots on the L1 data with their software Jim M 4/23: thm_load_fit also splits into efit and bfit variables, so unless you need to look at raw bytes, the 'fit' datatype is not needed. Pat: Agreed. Short term, excluding the data type from the GUI seems like an	
2082a	Spin modeling during shadows BugZid=43		Vassilis	3	Hannes	easy solution. Jim L to write routine. Hannes send info.	3-4 days
LUULA	opoaomig aamig onaaowo Dagzia-to	!	v accillo	J	110111100	com a to write reading. Harries seria IIIIO.	o → uayo

Split L1 ESA (using Thomas's routine) in master ESA data cdf GOES 10-12 Test data: h. update labels (Howard's request - minor tweak) STATE Web Page (s)		Vassilis	3	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
tweak)					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).
STATE Web Dogo (s)		Vassilis	3	Jim L	determine if to be reassigned
bad timing sun pulse times (early January 2009)		Vassilis Vassilis	3	Jim L Jim L	review web pages Clarification needed
L1 Data Processing History Info: SCM, EFI, STATE		Vassilis	3	Jim L	
Refactor repeated CDF library code in CDF processing tools BugZid=50		Vassilis	3	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	3	Jim L	In progress. Several templates created, selecting the appropriate command line routines to test.
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	3	Jim L	Discuss with SPDF whether having one variable with multiple data sources is difficult for them
FGS sample times and values, showing repeated timestamps. BugzID=113 (BugzID=67 must be done first)		Vassilis	3	Jim L	
Repeated timestamps and gaps in spin fit data BugZid=113 (#67 may fix this one as well).		Vassilis	3	Jim L	
Non Monotonic timestamps. BugzID=72		Vassilis	3	Jim L	
bau_sunpulse_met assumes x86 endiannes (BugzID=13)		Vassilis	3	Jim L	
task 2047 in my name: "Seperate E and B timestamps for spin fits", which is also a change to the L1 FIT master CDF and associated TDAS code. But unlike the spacecraft potential enhancement (which only adds new CDF variables, and is more-or-less backward compatible), 2047 would require us to bump the L1 FIT CDF version number to V02, and produce both V01 and V02 for a while, so users of TDAS 5.20 and earlier will still be able to load L1 FIT data. So I'm not sure whether the spacecraft potential task should include 2047, or not.	3/2/2010	Jim L	4+	Jim L	
describe the FBK data type, time tag specified to correspond to the beginning of the time interval of the data that went into the FBK data, the middle, or the end, or is that unspecified, and what's happening here is that the time tagging is being changed in year 3+ of the mission - in the L1 file definition document, at least, does not define the time- tagging conventions to this level of detail.	6/11/2010	John Bonnell	4	Jim L	
Before EOM reprocess L1 cdf's due to master cdf changes for SPDF	3/25/2010	David	4	Jim L	
Phantom packets" cause non-monotonic distribution times. BugzID=25,		Vassilis	4	Jim L	
Evaluate CDF compression algorithms BugZid=81		Vassilis	4	Jim L	
Add "last processed" time to L1 (and L2?) CDFs BugZid=115		Vassilis	4	Jim L	
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] iilt=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	4	Jim L	
cdfs with MD5 checksum	7/19/2010	Jim L	4	Jim L	Jim L to send email with subtasks and estimates
Add solar wind mode flag to L2 MOM, ESA and SST then reprocess.	4/12/2010	Team	1	Jim M	we will have to reprocess again MOM once two bugs fixed.
thm_load_mom bug - solar wind flag	7/26/2010	Pat	0	Jim M	fixed - I believe and then reprocess (waiting for Jim L)
Jim M - partial FGM reprocessing, also FBK and FFT reprocessing SCM CAL File Processing Doc	8/16/2010	Jim M Vassilis	0	Jim M Jim M	new fgm calibration files 5/21/10 Olivier will review - pinged Olivier again on
Sort out if TDAS software can run off SPDF cdf's	3/5/2010	David	1	Jim M	7/30/10 sent Tami list of Calibration files - Jim M needs to check if zeros directory online
Revise the calibration code for the particle data types (ESA, perhaps also SST or MOM?) to look for spacecraft potential in L1 FIT, if the moments are decimated	3/2/2010	Jim L	1	Jim M	Run independent test on thm_load_esa_packet. Awaiting Jim McFadden to send code of separate routine.
CFE CYCL FEFF CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Command Line Script - first template (s) functional blocks then scripts or FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag, State, SST, ESA Separate E and B timestamps for spin fits: a) make a revised V02 master CDF with E and B separated b) change that load_fit to support /01 and V02 of the L1 CDFs c) change the L0-xL1 processing code d) change the L1-xL2 processing code d) change the L1-xL2 processing code d) the state changes, then reprocess to create the V02 CDFs (keeping the V01 files around for a while to ease the transition) BugzID=45 FGS sample times and values, showing repeated timestamps. BugzID=113 (BugzID=67 must be done first) Repeated timestamps and gaps in spin fit data BugZid=113 (#67 may ix this one as well). Non Monotonic timestamps. BugzID=72 Data sunpulse_met assumes x86 endiannes (BugzID=13) ask 2047 in my name: "Seperate E and B timestamps for spin fits", which is also a change to the L1 FIT master CDF and associated TDAS code. But unlike the spacecraft potential enhancement (which only adds new CDF variables, and is more-or-less backward compatible), 2047 would require us to bump the L1 FIT DF version number to V02, and produce both V01 and V02 for a while, so users of TDAS 5.20 and sardier will still be able to load L1 FIT data. So I'm not sure whether the spacecraft potential task should include 2047, or not. Sescribe the FBK data type, time tag specified to correspond to the beginning of the time interval of the data that winto the FBK data, he middle, or the end, or is that unspecified and what's happening here is that the time tagging is being changed in year 3+ of the mission on the L1 file definition document, at least, does not define the time-agging conventions to this level of detail. Before EOM reprocess L1 cdf's due to master cdf changes for SPDF Phantom packets" cause non-monotonic distribution times. BugzID=25, work profits, data={xix, dipole_gse, y[1] zdipgse=dipole_gse, y[2] illit=tank, dipole_gse, y[1] zdipgse=dipole_gse, y[2] illit=tank, dipole_gse, y[1] zdipgs	Command Line Script - first template (s) - functional blocks then scripts or FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag, State, SST, SSA 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 /01 and V02 of the L1 CDFs of change the L0-b-L1 processing code d) change the L1-sL2 processing code e) test the changes, then exprocess to create the V02 CDFs (keeping the V01 files around for a while to ease the transition) BugzID=45 FGS sample times and values, showing repeated timestamps. BugzID=113 (BugzID=67 must be done first) Repeated timestamps and gaps in spin fit data BugZid=113 (#67 may ix this one as well). Von Monotonic timestamps. BugzID=72 pau_sunpulse_met assumes x86 endiannes (BugzID=13) ask 2047 in my name: "Seperate E and B timestamps for spin fits", which is also a change to the L1 FIT master CDF and associated TDAS code. But unlike the spacecraft potential enhancement (which only adds new CDF variables, and is more-or-less backward compatible), 2047 would require us to bump the L1 FIT CDF version number to V02, and series with the sile of the variable, and is more-or-less backward compatible, 2047 would require us to bump the L1 FIT data. So, I'm not sure whether the spacecraft potential task should include 2047, or not. Bedore the FBK data type, time tag specified to correspond to the seginning of the time interval of the data that went into the FBK data, he middle, or the end, or is that unspecified, and what's happening series is that the time tagging is being changed in year 3 of the mission - in the L1 file definition document, at least, does not define the time-agging conventions to this level of detail. Selore EOM reprocess L1 cdf's due to master cdf changes for SPDF Phantom packets' cause non-monotonic distribution times. BugzID=25, ow priority. Evaluate CDF compression algorithms BugZid=81 Add "last processed" time to L1 (and L2?) CDFs BugZid=115 Transforming one data point from SM coordinates to	Command Line Scrigt - first template (s) functional blocks then scripts or FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag, State, SST, SSA 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 viol and V02 of the L1 CDFs o, otherage the L1-b1 processing code d) change code d) change the L1-b1 processing code change the L1-b1 processing code change code change code change code code change code code code code code code code cod	Command Line Scrigh - first template (s) functional blocks then scripts or FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag, State, SST, SSA Separato E and B timestamps for spin fits: a) make a revised V02 natabase of Developed to the spent through the support v01 and V02 of the L1 CDFs c) change the LD-s-L1 processing code of the spent through the L1-s-L2 processing code of e) test the changes, then eprocess to create the V02 CDFs (keeping the V01 files around for a while to ease the transition) BugzID=45 FGS sample times and values, showing repeated timestamps. Vassilis 3 3 vassilis 4 Vassilis 3 Avanua, sunpulse_met assumes x86 endiannes (BugzID=13) ask 2047 in my name: Separate E and B timestamps for spin fits*, which is also a change to the L1 FIT master CDF and associated TDAS code. But unlike the spacecraft potential enhancement (which only adds new CDF variables, and is more-or-less backward compatible, 2047 would require us to bump the L1 FIT CDF version number to V02, and produce both V01 and V02 for a while, so users of TDAS 5.20 and sarrier will still be able to load L1 Fit data. So Irm out sure whether the pacecraft potential thank enhancement (which only are is in that the imaging is behavior of the data that went into the FBK data, the middle, or the end, or is that unspecified, and what's happening and the time tagging is being changed in year 3 of the mission-aging conventions to this level of detail. Perhantom packets' cause non-monotonic distribution times. BugzID=25, work processed time to L1 (and L2?) CDFs BugZid=115 Vassilis 4 Vassilis 5 For particular time to L1 (and L2?) CDFs BugZid=115 Vassilis 4 Vassilis 4 Vassilis 5 Vassilis 4 Vassilis 4 Vassilis 5 Vassilis 6 Vassilis 6	Command Line Script - first template (s) functional blocks then scripts or FGM. ASK, SCM, FTT, MOM, ASI, EFI, FFT, FFK, Gmag, Slate, SST, SSA Separate E and B timestamps for spin fits: a) make a revised V02 Separate E and B timestamps for spin fits: a) make a revised V02 All and V02 of the Lit CDFs (s) change the L0-x-Lit processing ode d) has the change, then load, fit to support V01 and V02 of the Lit CDFs (keeping the V01 files around for a white to ease the transition) BuggID=45 GSS sample times and values, showing repeated timestamps. UpgID=113 (BuggID=67 must be done first) Separate (BuggID=67 must be done first) Separate (BuggID=67 must be done first) Separate (BuggID=67 must be done first) Non Monotonic timestamps and gaps in spin fit data BugZid=113 (r67 may) to this cone as well. Vassilis 3 Jim L Separate (BuggID=67 must be done first) Non Monotonic timestamps. BugzID=72 Vassilis 3 Jim L sale 2047 in my name: Separate E and B timestamps for spin fits', which is also a change to the L1 FIT master CDF and associated TDAS does not unlike the spacecraft potential enhancement (which only dots new CDF vanishes, and is more-or-less backward compatible). 2047 would require us to bump the L1 FIT CDF version number to V02, and produce both Via and V02 for a white. So uses of TDAS 5:00 and produce both Via and V02 for a white. So uses of TDAS 5:00 and produce both Via and V02 for a white. So uses of TDAS 5:00 and produce both Via and V02 for a white. So uses of TDAS 5:00 and produce both Via and V02 for a data that went into the FBK data, he middle, or the end, or is that unspecified, and what's happening on the time interval of the data that went into the FBK data, he middle, or the end, or is that unspecified, and what's happening on the time interval of the data that went into the FBK data, he middle, or the end, or is that unspecified, and what's happening on the review of the processed with the first of the first of the processing of the first of the first of the first of the first of the f

3090	Then one needs to correct the particle distributions to be 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 think McFadden is the one to do this but he can also assign it. EFW spike removal	2/22/2010	Vassilis Vassilis	1	Jim McFadden Jim M	3089 is prerequisite - Vassilis 4/23: un-rotate the V's from the dphi and the onboard spinphase) and compare with the ground-processed V from the distribution functions. ESA and MOM code to use new features of spin model. In progress and being done in conjunction with 3099f. Jim Lewis needs to review spinmodel2 and thm_load_esa_packet to see how to incoporate spin model correctly. Jim can't reproduce the crash that was reported.	
3031	Erw spike lemoval	2/1/2010	v dssilis	'	JIIII IVI	Vassilis says there is new code coming from LASP that should work better, V will send us the updated code when it's ready to be merged into our repository.	
	After playing around more with the cdf tools and different cdf files I can fully confirm the problem you reported. Jimmy reported an error in the FORMAT variable of the level 2 cdf files of THEMIS FGM data. The FORMAT variable for the time data in "thc_I2_fgm_20070305_v01.cdf" (just as an example of a L2 FGM CDF) is set to E13.6, just as it is for the magnetic field data. Trying to extract the data with the cdf tools, the time information is truncated to 1.173054e+09, for instance, as a result of the wrong format string. I've looked into the L1 data of the same day "thc_I2_fgm_20070305_v01.cdf" with cdfedit, and found that the FORMAT variable belonging to the time information contains the string "F12.8". I think this should state in any time information FORMAT variable in the level 2 cdfs as well. After changing this in the L2 cdfs with cdfedit I can access the full time information up to 10 ns precision for every sample. So, the time information is there, but it is not exported correctly due to the wrong FORMAT string when using the cdf tools instead of TDAS. I guess that the routine making the I2 cdfs sets	7/7/2010	Jimmy Raeder and Ferdinand	0	Jim M	The problem is in the L2 mastercdf, test files look fine, both for TDAS and cdf tools; will reprocess of FIT, FGM, FBK, FFT, EFI and SCM the week of 7/19-7/23. ** Await Jim L reprocessing of FFT and FBK **	
	as default for all the FORMAT variables: "E13.6".	!	ı			_	
	Update overview plots to handle survey FFTs? Task modified as follow as of 8/30/2010: One overview plot for the three inner probes - 4 products (FBK-2,FFF-2) and one plot for the outer two probes (4 products for each).			1	Jim M		
2103	EAC offsets	8/1/2009	John Bonnell	1	Jim M	John sent Jim M code from Chris Cully showing how the offset should be calculated (8/12). 8-20-10 Jim M seny John B for review a database of offsets. 9-2-10: John B to have feedback by 9-11.	
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	Jim M to create an option in thm_cal_efi.pro so that data in physical units can be gotten out before any spin dependent offsets are applied. 8-20-10 Jim M committed changes and will send John B an email to review. 9-2-10: John B to have feedback by 9-11.	
2216	Fix the sign reversal of e34.	8/13/2009	John Bonnell	1	Jim M	John sent Jim M a date/probe combination that Forrest Mozer used to establish the correct sign of e34 (8/12). Jim M will make the appropriate thm_spinfit corrections. In progress	
2225	L2 EFI cdf (quality flags)	8/31/2004	John Bonnell	1	Jim M	Quality flags and L2 cdf will be addresses when we have a clue about offsets, spinfits, etc	
3064	47. CL specplot missing peib data for tests 25 and 26	1/15/2010	Jim M	1	Jim M	Data exists, but isn't plotted for some reason	
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	1	Jim M	Jim M to assess only	tbd
3085	138. GUI SCM cotrans inconsistent results depending on starting/ending coordinate systems. Pass warning through to GUI	2/18/2010	Jim M	1	Jim M	Also should check if same problem exists with command line? Will take time to look at code to get an estimate	1 week
4086	Requested better instructions on how to use TDAS with other IDL libraries	6/30/2010	Strangeway	1	Jim M	(e.g. FAST, Cluster, etc) update documentation, suggest workarounds for specific situations (e.g. conflicts with TDAS and FAST versions of tplot)	
4087 4083	Suggested that we bundle quickstart document in TDAS zip GOES plots on the web	6/30/2010 6/28/2010	Strangeway Vassilis	1 1.5	Jim M Jim L	Talk to David - thought we had one Vassilis wants overview plots for GOES, Jim M to write	
4000			Vassiiis	1.0	OIII E	the code and generate GOES overview plots for the data we have so far. Not a daily process, because we only get binary GOES data in occasional batch updates from Howard Singer	
	EFI Calibration Document had expected that this cotrans would occur at the very end, after all the	4/30/2010 11/12/2009	David Jim	3	Jim M Jim M	see 2256	
	There is another aspect to this problem. Dead-time corrections are	11/12/2009	Jim Mcfadden	3	Jim M	300 2230	
	severe for ion ESA SW data and there are no dead-time corrections for			3			
	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		Jim M		
2060	L2 cdf Quality Flags: for SST		Vassilis	3	Jim M		
	L2 File Definitions Document		David	3	Jim M		
	Administrator's Guide Themis Developers Guide		Vassilis Vassilis	3	Jim M Jim M		
	Inferins Developers Guide that John School of the Units are stored in the meta data, and none of the units are stored in the place we normally try to store them (from Pat - Vassilis concurs) Will take a look.		Vassilis	3	Jim M		
2091	Once Jim McFadden completes his mods for n_3d_new_3 reprocess		Vassilis	3	Jim M		
2092	L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate		Vassilis	3	Jim M		
	time.						

2055	ESA L2 from L1 (not packets) - create L2 and test thoroughly, then		Vassilis	3	Jim M	On Hold; awaiting Jim L to split L1 into master cdf	
,	reprocess ESA	0/5:33					
4003 4042	Document: ESA File and Calibation Processing Script to run every two weeks to runs IDL TDAS and checks if a file can	3/5/2010 4/19/2010	David Pat	3	Jim M Jim M		
L	be loaded from THEMIS SPDF file (s)			_			
	AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: Overview plot change: mode bar seems thick		Vassilis Vassilis	4	Jim M Jim M	nothing we can do easily	
2095	Mosaic Processing - permanent script needed		Vassilis	4	Jim M	nonling we can do dadily	
	EFI calibration DC offset between 4sdo and 2sdo in boom plane		John Bonnell John Bonnell	4	Jim M Jim M	Which is better? Assigned to J. B. (low priority).	
	Try to track down frequency scaling problem in DPWRSPC (dlimit		John Bonnell	4	Jim M	On Hold - low priority	
2100p	setting? Compare to old plots?). Modify THM_CAL_FIT to treat efs datatype - Install E12/E34 conditional		John Bonnell	4	Jim M		
	based on th?_fit_code TPLOT variable. If E12 switched to E34 software		CONTROL DOTTION	,	OIIII IVI		
	needs to be revised to handle						
	Pat						
	Support Mirror Sites Japan (ISAS)		Vassilis Vassilis	0	Pat Pat		
2069b	Austria		Vassilis	0	Pat		
2069c 2070	France Support gmag data remote sites.		Vassilis Vassilis	0	Pat Pat	(Rumi - not always up to date for gmags)	<u></u>
	Augsburg (MACC's)		Vassilis	0	Pat		
2070b	Alberta		Vassilis	0	Pat		
2070c	Greenland - I think the following stations in our archives are		Vassilis	3	Pat	On #1 Is there any way for us to calibrate the DMI data -	
	essentially unusable scientifically (non calibrated-mis labeled): nrsq amk atu dmh dnb gdh kuv naq nrd sco skt stf svs thl umq upn					answer is NO. Basically what he's saying is that all our old greenland data is in raw format, but none of our	
	Following up with DTU on ways to correct. ***Periodic Download -					documentation is labeled to indicate this. Someone	
	go for it ***Old data not calibrated - what to do? ***Release Greenland to SPDF? Integrate into load routines (yes)					could easily use the greenland data by accident and think that it is actually calibrated. Replacing the old	
	Greenland to SPDF : integrate into load routines (yes)					data with calibrated data would be the best option, but	
						we may not be able do that for all dates/sites. For the remainder we should probably have very clear	
						documentation, or maybe not distribute the data at all.	
						Without calibrations it shouldn't be used to do science.	
						On #2 I think HDZ is the format we want, but we	
						generally convert H into nT. Just to verify, the	
						conversion is(for tangent function taking radians):	
						D(nT) = H*tan(D/60 * pi/180) Correct? Pat must do analysis - will take a bit of time.	
3033	GBO rsync from U Calagary is failing. Contacting Emma Spanswick to determine source of problem.	1/5/2010	Pat/Jim M	0	Pat	SNAP - only one still missing per Emma,	
3034	U Alaska all working	12/7/2009	Jim M	0	Pat		
	When new FGM Cal files come from David Fisher reprocess last 6	10/16/2009	Pat	0	Pat	awaiting next FGM reprocessing	
	months.					awaiting next 1 Oil reprocessing	
4114	Once Jim completes latest round of L2 reprocessing - reprocess the Onboard moment overview plots	8/16/2010	Pat	0	Pat		
4106	Noticed a small issue with the FGM multi-probe plots. If data is missing	7/29/2010	Pat	0	Pat	Reduced SST multi probe plots - labels wrong;	
	it doesn't do anything to show that the data is missing, so that the status bars and plots can get squished together in a way that is					reprocessing to be on hold until justice annual backup done	
	confusing.						
4124	f you look for instance at the Multi Probe Survey Memory plot on August	9/3/2010	Harald	0	Pat	Reprocessing will occur automatically after L2 MOM	
	25 you will see that there are only 4 panels and no plot for TH-C because we don't have any data of that for this day. I would rather like					reprocessing next week.	
	to have all plots showing 5 panels and have this TH-C panel empty. Determine scales and offsets for correcting on-board moments to				Dat		
3025a	match ground based moments during solar wind mode.				Pat		
30255	Determine when engenerally is in color wind made, and analy				Dot		
3023D	Determine when spacecraft is in solar wind mode, and apply corrections.				Pat		
3055	SST calibrations	12/18/2009	Davin	1	Pat		
3055c	Extend thm_pdist to populate all dist struct fields(mass etc) so that	7/1/2010	Davin	1	Pat		
2055-1	moments can be correctly generated	7/1/2012	Doud-		Dat	_	
3055d	3055d1 Energy Scales. Scales for scaled raw energy boundaries. There will be 4 parameters. One for each sensor head. 3055d2 Energy	7/1/2010	Davin	1	Pat		
	Offsets. Offsets for scaled raw energy boundaries. There will be 4						
	parameters. One for each sensor head. 3055d3 Geometric factors. Scaling factors for raw fluxes. There will be 4 parameters. One for						
	each sensor head. 3055d4 Efficiencies. Scaling factors for raw fluxes.						
	There will be 16x4 parameters. One for each combination of energy bin/sensor head.						
3055e	Provide initial calibration file which contains calibration parameters that	7/1/2010	Davin	1	Pat		
	were previously hard-coded. This will serve as a template for future	,2510	20				
2055-	modifications.	7/12/2010	Dovi-	4	Do+	Davin to Review 3055c - 3055j and	
3055e	In first version, I had split time in calibration file; used separate column for year month date hour minute second, Davin asked	7/12/2010	Davin	1	Pat	see if further changes needed - eta	
	that it be stored as one column. This is already done.					8/16	
3055f	The calibration file should include an additional factor: the nominal g- factor. The other 4 g-factor parameters will be corrections applied to	7/12/2010	Davin	1	Pat		
	the new factor.						
3055g	include 4 new parameters for the sst attenuator calibration	7/12/2010	Davin	1	Pat		
			·				

3055h	Need to include new parameters for dead time corrections. I need to review code to determine appropriate number of parameters and verify with davin.	7/12/2010	Davin	1	Pat		
	Need to version calibration files. Looking at FGM for version control example/precedent.	7/12/2010	Davin	1	Pat		
3055j	Right now, the calibration files are one line only. timestamps are included in the files, but they are not yet used by calibration code. add support for time varying parameters.	7/14/2010	Davin	1	Pat		
3055k	Davin delivers SST calibration parameters	7/19/2010	Davin	1	Davin		
30551	Install SST calibration parameters	7/19/2010	Davin	1	Pat	dependent on 3055k	
4072	Put eclipse spin model correction code in SST as already has been done for esa packet pgm	6/8/2010	Jim M	1	Jim M	wait for SST calibrations	
4068	Lynn Wilson possible enhancements	6/1/2010	Lynn Wilson	1	Pat	Review Lynn's software and generate list of features	
	Vassilis asked me to email you about adding a task to add 4 magnetometers(PI: Martin Connors) to our data archives so that their data can be accessed via TDAS.(CL & GUI) The files are already in the RMD format, which is the raw format of our other ground magnetometer data. The task would involve small modifications to our existing scripts to accommodate periodic rsyncs to this new location, and a one time retrieval of past archives from the new location. To accomplish this task we'll require a delivery from Martin of either master cdfs or a text file with appropriate meta-data for these sites, and that they add our a public key that we provide to their list of authorized ssh keys on their archive server. The new gmags abbreviations are: LARG,LETH,ROTH, & REDR.	4/27/2010	Vassilis	1	Pat	he new gmags abbreviations are: LARG,LETH,ROTH, & REDR. 8-20-10 Routine to download is complete and routine to do calibration is in progress. Awaiting justice annual backup completed before retieving new data.	
	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		
3052	The last time we have GBO data is 1/12/10	2/2/2010	K. Rowe	1	Pat	send email to Katherine	
	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	Send email to Lynn	
	make the load panel(and other panels) remember users' previous selections. Some of our panels already do this, but implementation is not consistent.	5/19/2010	Martin Conners	1	Pat	in progress	2-3 days
	Suggested that we update IDL_GEOPACK to use IGRF 2010 Document: SST File and Calibation Processing	6/30/2010 3/5/2010	Strangeway David	1 2	Pat Pat	send email to Bob	
4119a	Reorganize sun contamination keywords. (Add 'manual' option to method_sunpulse_clean)	8/26/2010	Vassilis	2	Pat		1-2 hrs
	Add 'automatic' option to method_sunpulse_clean which will sum	8/26/2010	Vassilis	2	Pat		4-6 hrs
	across time range provided by user in new keyword. Create a new crib that shows only a few simplified options to the users.	8/26/2010	Vassilis	2	Pat	4119a and b prereg's	2-4 hrs
4012	When Cindy & I tried to load tha_eff on 2007-03-23, it didn't load and said some calibration quantity couldn't be found. When I tried to load the same thing, I didn't have a problem. So the trick would be to find out what changed from my computer to Cindy's computer and to figure out how often our user's computers are going to have the same problem that Cindy's computer had.	3/22/2010	Pat	2	Pat	Jim M: I have no trouble with EFF data either for linux or windows.	
	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		
	For the beta and official sites we want to add a button at the bottom to the right of the existing two buttons. Official site web page url: http://themis.ssl.berkeley.edu/summary.shtml?autoload=1 Please center the 3 buttons. The new button will have the words "Plot Descriptions" and if clicked will link to the following: ftp://apollo.ssl.berkeley.edu/pub/THEMIS/3 Ground Systems/3.2 Science Operations/Science Operations Documents/THEMIS Summary Plot Description Tables	4/19/2010	Pat	2	Pat		

						,	
2062	Alberta - At the moment the data files are from Dawson (daws), Churchill (fchu), Island Lake (isll) and Fort McMurray (mcmu). I will add Rabbit Lake and Taloyoak at some time but we have some issues with mag pointing at those 2 sites. If you recall, the agreement between lan and Vassilis was that this data wouldn't be copied to become part of a mirrored archive like the existing data we provide. Instead, each file would be obtained from this site each time it is requested (using curl or some such). This means we can use our own logs to monitor data usage. Themis Software to be able to retrieve from Alberta		Vassilis	3	Pat		
4120	Add title support to plotxy	8/27/2010	Christine	3	Pat		2 hrs
4121	Add multi-row/column span to plotxy	8/27/2010	Christine	3	Pat		6 hrs
2090	that streamlines the generation of gmag stackplots and a crib to show how to do this. (< than a day)		Vassilis	3	Jim M		
	102. Tplot_gui overwrite warning when importing data, even if variable gets renamed.	2/3/2010	Pat	3	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]			3	Pat		
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	3	Pat		16
4013	Plot Description Doc Button	3/22/2010	David	3	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	3	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	
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	3	Pat		
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	3	Pat		
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	3	Pat		8 hrs
3065	68. GUI z-axis options when Fixed Min/Max selected, value in spinners does not reflect current range as it does for X and Y axes. Displayed range when spinners desensitized is inaccurate.	2/10/2010	Aaron	4	Pat	chech draw object	4 hrs
	The TDAS Software will be enhanced to incorporate data from the STEREO mission.	3/8/2010	David	4	Pat		
4006	add the following ancillary ground-based observations: MAGDAS Network, Auroral Electrojets (AE) and Ground Radars (SuperDarn, AMISR and Sondrestorm)	3/8/2010	David	4	Pat		
	EPO-GMAG msgs: modify the script and only issue this message if > 2 days	12/8/2009	David	4	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	4	Pat	see 2277	
2135	I didn't realize the cotrans messed up the velocities for earth centered coordinates. Maybe what we really need to do is modify cotrans so that it correctly transforms velocities. Users can incorrectly transform velocities just as easily using thm_cotrans on the command line, as they can using the coord keyword.		Pat/Jim L	4	Pat		
2124	I loaded a plot which had the line color as white. Because the legend plots in the same color as the line, the legend text did not show up. We should probably just put in a check for this case. If the line is white and the background is white then draw the text in black		Pat	4	Pat		

2063	Problem with edit3dbins is being caused by IDL's mouse system		Aaron	4	Pat	verify note in quick reference guide and then task will	
	variable not being updated correctly on Macs. The ctime procedure,					be closed	
	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.						
2106	Add the ability to right-click on a variable in the widget-tree and display		Pat	4	Pat	originally part of task 64, however, after further	
	a popup with basic information about the quantity such as dimensions,					evaluation, it was determined this best belonged with	
	range, or other meta data as well as the ability to rename variable					the widget tree rather than the analysis window	
2220	I found a small bug in the z-axis panel in the gui. If I change the z-axis	8/27/2009	Pat	4	Pat		4-8 hrs
2220	annotation size of a layout with 2-panels each with one spectrogram,	0/2//2000	ı uı	7	1 41		4 0 1110
	when I apply this change, it gets applied to both panels, even if set-all is						
	off.						
	40. CL tplot options setposition test plots all look the same	1/15/2010	Pat	4	Pat	Long-standing tplot bug, may not ever be fixed	4 hrs
3003	40. CL thot obtions sethosition test biots all look the same	1/13/2010	rai	4	Fai	Long-standing thot bug, may not ever be fixed	41115
4029	One of Michael Hartinger (a grad student in atmos) is having trouble	4/6/2010	Michael	4	Pat	Michael supplied code for thm_part_moments	
	Misc						
447	Save THEMIS document: Attempting to save to a read only file in			1		IDL Error report to ITT	16-24 hours
	Windows outputs the correct error message, but IDL crashes			1 ' 1		.52 2 roport to	.5 2 . 110015
	immediately afterwards.						
	in the state of th						