Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate (hrs)
4076	To be Assigned or Discussed It' is not serious but could cause confusion for people (and possibly	6/17/2010	Aaron	?	Aaron		1-2 hrs
	frustration) when their annotations do not come out as expected. It probably doesn't come up often for most people since it's usually only noticeable when forcing very small numbers into a numerical format. I only noticed it because I was testing annotations for slices, which sometimes have very small numbers on the z-axis. should be tested thoroughly for regression before it's released.						
4078 4079							
4079	Coursel						
	General I noticed that the Data->Collaboration Tools->(subcategories) fall	7/28/2009	Michael	2	Amanda	Run Compatiability View in Internet Explorer	
4014	behind the ARTEMIS graphic. Each Month - Tips dujour	3/22/2010	David	2	David		
	Document: Developers Guide Document: Administrators Guide	3/5/2010 3/5/2010	David David	2	Team Team		
	Incorporate electron calibration into data	10/25/2009	Vassilis		Davin		
	Enhanced SST and MOM Instrument Web Pages EAC offsets	8/1/2009	David John Bonnell	2	Davin John B	John has taken AC coupled data -> he will get me the	
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	John B	John to review Jim's fix, eta 6/30	
2216	Fix the sign reversal of e34.	8/13/2009	Michael	tbd	John B	eta 6/30	
2225	L2 EFI cdf (quality flags)	8/31/2004	Vassilis	1	John B	Jim M to create master cdf with few new variables.	
						John to look at data and describe the criteria for the quality flags. (eta 6/30)	
	Harald ASI software - running fine as of 25 May 2010, L1's and mosaics are				Harald		
	up-to-date.						
	Thumbnail Data: - cdf files done until April 30, 2010				Harald	Updates ready 7-10th of the next month	
	- overview plots done until April 30, 2010						
	- movies done until April 30, 2010						
	Full-resolution raw data: - complete for 2007, 2008, 2009				Harald		
	- reasonably complete until mid February 2010						
	Full resolution data:				Harald		
	- data cdf done for all 2007 and 2008 and mid Nov-2009						
	- keogram cdf done for 2007 and 2008 and until mid Nov-2009						
	Web site mosaics and movies:						
	- Mosaics and movies reprocessed for 2007/2008 and 2008/2009 seasons						
	- Mosaics and movies up to date until April 30, 2010						
	Web site overview plots with full resolution data: - overview plots done for 2007 and 2008 and until mid-November						
	2009						
	- overview plots with thumbnails done until April 30, 2010						
2069d	UCLA – mirror site set-up		Vassilis	1	Harald	UCB has 4 bricks to load for UCLA. In the coming weeks to be ready. After brick transfer UCLA will need to supply SSH key - RSYNC Key.	
	Hannes						
	New Calibration FGM parameters and spin axis offsets Attitude Determination changed based on spin tone removals?	3/22/2010 10/19/2009	Hannes	1	Hannes		
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.	4/14/2010	Hannes Vassilis	1	Hannes Hannes	waiting for Jim L 4034a	
	New Calibration FGM parameters and spin axis offsets	5/10/2010	Hannes	1 2		in progress	
	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. Hannes to send everyone his new load FGM program.	5/10/2010	Hannes	2	Hannes	Hannes to finish testing his new thm_load_fgm	
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.	
2013	Aaron 2-D, 3-D slices enhancements Other Distributions: Allow for plots using counts, phase space density, etc (including current dist. options)						
	Bulk Velocity: Load calibrated lvl2 data, leave 'auto' option but rename						

Index below velocity direction plot zero: lines barge number of licks change number of licks per number of licks change number of licks per number of licks change num								1
3007 3009 3009	2013n	plot zero lines plot max-energy circle change annotation format change number of ticks					almost completed	
2010 Bio Relation: and R. S. P. Zeparkin. 9144444 91444444 914444444 914444444 9144444444444 91444444444444444444444444444444444444	4077	I already added the keyword on my copy to verify that the feature would work; so it will not take any extra time. We can postpone checking it in for as long as we wish to wait for the corresponding part	6/17/2010	Aaron		Aaron		
String Construction or networks of relationships in the rank is equivaly to be table Vessile I Assoc String Sing integration or networks of relationships in the rank is equivalence to a string of relationships in the rank is equivalence to a string of relationships in the rank is equivalence to a string of relationships in the rank is equivalence to a string of relationships in the rank is equivalence to a string of relationships in the rank is equivalence to a string of relationships in the rank is equivalence to a string of relationships in the rank is equivalence to a string of relationships in the rank is equivalence to a string of relationships in the rank is equivalence to a string of relationships in the rank is equivalence to a string of relationships in the rank is equivalence to a string of relationships in the rank is equivalence to	20130							1-3 days
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20135 Using Guide within guide mitting operation and participation and with or produce with Xubbin 1 Amon 1 Amon 1 2026 Classed of the produce with Xubbin 1152000 Amon 1 Amon 1 2037 Subbind produce with Xubbin XI is means symbols are in the produce with Xubbin XI is means symbols are in Xubbin Xubin Xubbi	2013q			Vassilis	1	Aaron		
No.2 CAC GUI permit general end of an exception of the serial decision of	2013r	Integrate our own slicer3.pro gui with regular 2-D slice plots.		Vassilis	1	Aaron		
Index which whole a source in a special will be responded. Image which whole a costs for 70-back moment webck probes. Vessel b Vessel b <th< td=""><td>2013s</td><td>User's Guide write-up and then review with Xuzhi</td><td></td><td>David</td><td>1</td><td>Aaron</td><td></td><td></td></th<>	2013s	User's Guide write-up and then review with Xuzhi		David	1	Aaron		
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3016 There is no very to control the variable form as prioring the variable form as prioring registry as a barner to description for the prioring registry as a barner to description for the prioring registry as a barner to description for the prioring registry as constructions. Using the prioring registry as constructions the damand stapped variables in the state of the state of the as very the state prioring registry as constructions. The after state of the state of	3014		12/11/2009	Pat	2	Aaron		
anymel rate bar. Should fu. as a heak bar. Should fu. as a heak bar. Should fue. as a heak bar. Should fue. 001 regeting a crash in he calculate window windo	3016	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	12/11/2009	Pat	2	Aaron		1 day
program area and mancik on a data quantity from the tree. The error message is below. program area and mancik on a data quantity from the tree. The error message is below. program area and mancik on a data quantity from the tree. The error message is below. program area and mancik on a data quantity from the tree. The error message is below. program area and mancik on a data quantity from the tree. The error message is below. program area and mancik on a data quantity from the tree. The error message is below. program area and mancik on a data quantity from the tree. The error message is below. program area and mancik on a data quantity from the tree. The error message is below. program area and mancik on a data quantity from the tree. The error message is below. program area and mancik on a data quantity from the tree. The error message is below. product where kern program area and mancik on a data data data data data data data d	3031		1/5/2010	Vassilis	2	Aaron	as a hack to generate the sample rate bar. Fix after	1/2 day
3075 110. GUI - spinner vidget, inconsistences between actual and display during the vidget, inconsistences between actual and display during the vidget inconsistence consistence with inclusive sample that were long required, actual the vidget inconsistence actual and display during during during actual and display during	3001	program area and then click on a data quantity from the tree. The	12/7/2009	Aaron	2	Aaron	found during EFI testing	
Part Annotation Part Part Pait	3079	110. GUI spinner widget, inconsistencies between actual and	2/12/2010	Pat	2	Aaron	Support exponential notation for very small values	
3035 317. GUI spinner controls - when inguiting value >> 2*16/2 in grid hickness spinner, cusses former cusses and value reset to -32% 2*16/2010 Part 2 Aaron Probably short data type used where long required, affects many of the spinner, controls 6*10 http: affects many of the spinner, controls 6*10 http: affects many of the spinner, controls 6*10 http: affects many of the spinner, controls 1*2 http: value reset to a spin and value reset to -32% 1*2 http: value reset to a spin and value reset to -32% 1*2 http: value reset to a spin and value reset to -32% 1*2 http: value reset to a spin and value reset to -32% 1*2 http: value reset to a spin and value reset to -32% 1*2 http: value reset to a spin and value reset to -32% 1*2 http: value reset to -32% 1*1 http: value reset to a spin and value reset to -32% 1*1 http: value reset to a spin and value reset to -32% 1*1 http: value reset to a spin and value reset to -32% 1*1 http: value reset to a spin and value reset to -32% 1*1 http: value reset to a spin and value reset to -32% 1*1 http: value reset to a spin and value reset to -32% 1*1 http: value reset to a spin and value reset to -32% 1*1 http: value reset to a spin and value reset to -32% 1*1 http: value reset to a spin and value reset to -32% 1*1 http: value reset to a spin and value reset to -32% 1*1 http: value reset to a spin and value reset to rade value reset to	3079a	Spinner Part	2/12/2010	Pat	2	Aaron		
Initial consest pinner, causes error message and value reset to -32768. Part Problem is not the spinner. Object definitions using short ints when long ints should have been used.2162010Aaron2AaronInte only message that ever prinned was "1: Cannot Set Value variable, no variables"1-2 hrs Value variable, no variables"1-2 hrs12070Finishing the coordinate transformation of the thm. load, state data data object determine kwyood swith, primement the relation of the spinner control is data struct, but no specifiag set in its meta data, the loaded data object fails to load the y-axs. This should be load, at in eds up incorrectly loading certain specifial quantities.Pet3AaronInternet certainInternet certain1212When timpoffing a variable with a valid 'V' component in its data fails to load the y-axs. This should be load, at in eds up incorrectly loading certain specifial quantities.Internet certain struct, but no specifiad quantities.Internet certain struct, but no specifiad part in its meta data, the loaded data object if with its out to specific quantities.Internet certain struct, but no specific quan	3079b	FormatAnnotation Part	2/12/2010	Pat	2	Aaron	The format routine is incorrectly deciding the # of	4-5 hrs
needed.Value variable, no variables*2027Finishing the coordinate transformation of spinaxis attitude, need totat input, to include transformation of spinaxis attitude, need totat obtervation/astumth time guide to abilitray coordinates (consult with Part, determine keyword switch, inplement the rotation of the spinaxis obtervation/astumth time guide to abilitray coordinates (consult with Part, determine keyword switch, inplement the rotation of the spinaxis obtervation/astumth time guide to abilitray coordinates (consult with Part, determine keyword switch, inplement the rotation of the spinaxis obtervation/astumt (consult weyword) as the data, the loaded data object fails to load the yeas. This should be fixed, as it neds up incorrectly loading certain spectral quantifies.Pat3Aaron2121When thm_load_fits called requesting a single data type it will also return some auxiliary data types. For example: thm_load_fits called requesting a single data type it will also return some auxiliary data types. Tor example: thm_load_fits colled to yeas. This, some _efftrg. asit _gamaga_askmomesa_pktVassilis3Aaron2022From HannesMannes3Aaron2023From Hannes askmomesa_pktHannes3Aaron2024From Hannes and traves to unit object of attraves the spinase of and the spinase attrave of a trave spinase attraves the spinase of and the spinase of a trave the pathames all keyword is broken.Hannes3Aaron2025From Hannes regent and the spinase of a trave of a trave thy/themines systemas and the spinase of a trave thy/themines systemas and the spinase of a trave thy/themines systemas and the spinase of a trave thy to a t	3083	thickness spinner, causes error message and value reset to -32768. Pat: Problem is not the spinner. Object definitions using short ints	2/16/2010	Pat	2	Aaron		6-10 hrs
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return some auxiliary data types. For example: thm_load_fitprobe='t/s datatype='tgs' returns: 1 thb_fit_code 2 thb_fit_npts 3 thb_fgs. load bug or test script bug)b. TheImage: transmet all explores doution - thm_load_spin_state_hsk, _gmagaskmom_esa_pktVassilis3Aaron2028Yorable units - generic solution - thm_load_spin_state_hsk, _gmagaskmom_esa_pktHannes3Aaron2029From HannesHannes3Aaron2029Provided is the most common plot used by scientists that look atHannes3Aaron2029Provided is the most common plot used by scientists that look atHannes3Aaron2029Provided is the most common plot used by scientists that look atHannes3Aaron2029The level 2 CDF files at htmpers state from Vassilis: option to introduce the data in RE with keyword (one RE = 6,478 kilometers 7??). Like thm_load_figm / data from probe 'a' and let's say there are no data for the position from another source. Notes the full of gun et al. [0] gun etc.Aaron2020If one loads figm data from probe 'a' and let's say there are no data for the position chand out, coord = GSM, 'GSE'etc.Vassilis3Aaron2021If one loads figm data from probe 'a' and let's say there are no data for the previously loaded interval.Vassilis3Aaron2022If one loads figm data from probe 'a' and let's say there are no data for the previously loaded interval.Vassilis3Aaron2023If one loads figm data from probe 'a' and let's say there are no da	1579	struct, but no spec flag set in its meta data, the loaded data object fails to load the y-axis. This should be fixed, as it ends up		Pat	3	Aaron		
_sst, esa, bau, fgm, fbk, fft, fit, scm, efi, trg, asi, gmag, ask, mom, esa, pktHannesAaronMannes2029From HannesHannesHannesAaronMaron2029aProvided is the most common plot used by scientists that look atHannesAaronMaron2029bThe level 2 CDF flies at http://themis.sst.berkeley.edu/data_download.shtml should contain position in various coordinate systems as well. Preferably in the sas meresolution 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 keyword (one RE = 6,478 kilometers ???). Like keyword (out all be empty. It could be those variables stall contain fact the previously loaded interval.HannesAaron2020cIf one loads fgm data from probe 'a' and let's say there are no data for the chosen interval. The variables that_fgl_gm etc. should all be empty. It could be those variables still contain data from the previously loaded interval.HannesAaron2030Upgrade thm_load to work with probe assignmentsVassilis3Aaron2031move functionality of thm_load_state and delete thm load routipesVassilis3Aaron2032Mitple enhancements concerning keywords, valid_names and thm_load routinesVassilis3Aaron	2121	return some auxiliary data types. For example: thm_load_fit,probe='b',datatype='fgs' returns: 1 thb_fit_code 2 thb_fit_npts 3 thb_fgs. load bug or test script bug) b. The			3	Aaron		
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Space Space <th< td=""><td>030a F</td><td>Review Onboard Scripts for possible error.</td><td>5/17/2010</td><td></td><td>1</td><td>McFadden,</td><td>received M. Ludlam. need flatsat put back together</td><td></td></th<>	030a F	Review Onboard Scripts for possible error.	5/17/2010		1	McFadden,	received M. Ludlam. need flatsat put back together	
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40745 Figure out whether there is a problem with LT REL and whether LL P100210 Vasailia 1 Jam L Figure out whether there is a problem with LT REL and whether LL P100210 Vasailia 1 Jam L 6206 Inters the problem is a simple rootem. P1002100 Vasailia 1 Jam L 6206 Figure out whether there is a problem with LT REL and whether LL P1002100 Vasailia 1 Jam L 6206 Figure out whether there is a problem with LT REL and whether LL P1002100 Vasailia 1 Jam L 6206 Figure out whether there is a problem with LT REL and whether there is a proper set most is a strate out to work with is a problem set model to VIC and the work with a problem set model to VIC and there with a red down model to VIC and t	р	processing"? Pat's existing task 3055 should cover the L1->L2 side	6/1/2010	Jim L	1	Jim L	128 angles	
40726 [Intersensity update the Lo-L1 processing code, and welfy that this end to 2210 [Intersent of the end to 22200 [Inte	074a F	igure out whether there's a problem with L1 FBK, and whether L1						
40726 Build new release of motions, reprocess LF PBK (and if necessary, LT 4702010 Vasailis 1 Jim L 40746 Reprocess LF PEK (and if necessary, L2 FPL) arr02010 Vasailis 1 Jim M 40746 Reprocess LF PEK (and if necessary, L2 FPL) arr02010 Vasailis 1 Jim M 4026 In reviewing the mediata in these COES maters, it seems the value 4522010 Jim L Jim L 4070 Add support to thm, contrae, sil2gae, and sid2el for / paedo, did 612210 Jim L 1 Jim L If the reviewing the mediata in these COES maters, it seems the value 4522010 Jim L 1 Jim L	074b If	f necessary, update the L0->L1 processing code, and verify that this	6/10/2010	Vassilis	1	Jim L		
40748 protoces 12 FBK (and if necessary) (2 FT) 6/102010 Vasalis 1 Jim M 4020 only apply objects pain motion Volt state leave of Uncornected 6/202010 Jim L 1 Jim L 4020 in reviewing the metalata in these CGE masterin, is seems the value 4/202010 Jim L 1 Jim L 4020 in keyword in present, look for and apply object obter, carbon states in the value 4/202010 Jim L 1 Jim L Im L <td>074c E</td> <td>Build new release of tmtools, reprocess L1 FBK (and if necessary, L1</td> <td>6/10/2010</td> <td>Vassilis</td> <td>1</td> <td>Jim L</td> <td></td> <td></td>	074c E	Build new release of tmtools, reprocess L1 FBK (and if necessary, L1	6/10/2010	Vassilis	1	Jim L		
4202 In reviewerp the metadate in these OPES matchine, is seems the value 46/2010 Tami - SPOF 1 Jun L 42070 Taket support to time, contras, salzyse, and salzde for /pecudo, dal controls as appropriate. 6/12/010 Jun L 1 Jun L time, load, fit and time, load, more, add keyword 24400 rine a control to chark time target to be variables in the second to the second target to be variables in the second to the second target to be variables in the second to the second target to be variables in the second to the second target to be variables. Use in the lass monochord, and regards the variables. 0 1 Jun L 1 </td <td>074d F</td> <td>Reprocess L2 FBK (and if necessary, L2 FFT)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	074d F	Reprocess L2 FBK (and if necessary, L2 FFT)						
of the global attributes TEXT has gotten co off Image: Constraint of the global attributes TEXT has gotten co off 4407 Max Support io the notines signs, and solds for /pseudo, adi keyword. Mir.2010 Jim.L 1 Jim.L <t< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td></t<>						-		
keyword: I keyword: I keyword: I keyword: Create a acutine to clean up tiplot variables. Use in the padrotic variables is a propriate. 21440 Interessary (with options for "replice with NaN" and "delive") Jim L 1 Jim L Create a routine to clean up tiplot variables. Use in the padrotic variables is needed to make the time tags monotonic, and sease a variang indicating that the gard for the sease a variang indicating that the gard for the sease a variang indicating that the gard for the sease a variang indicating that the gard for the sease a variang indicating that the gard for the sease a variang indicating that the gard for the sease a variang indicating that the gard for the sease a variang indicating that the gard for the sease a variang indicating that the gard for the sease a variang indicating that the gard for the sease a variang indicating that the gard for the sease a variang indicating that the gard for the sease a variang indicating that the sease a variang			4/5/2010	Tami - SPDF	1	JIML		
If necessary (with options for "replace with NaN" and "delete") Image: Control of the second of	k	eyword. If keyword is present, look for and apply eclipse delta_phi	6/1/2010	Jim L	1	Jim L	thm_load_fit and thm_load_mom, add keyword	
2286 Timing of Spin Fit data 10/16/2009 Jim 1 Jim L 3048b spinnodel Intery, Loops over each time sagment individually. If we Would generate speedups EFI and for other calibration routines. 1/25/2010 Pat 1 Jim L Jim L 2149b integrate time tag fixer-upper with TDAS load routines 9/10/2009 Jim L 1 Jim L				Jim L	1	Jim L	load routines were susecptible. 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	
vectorize this operates speed processes. Jm L I Jm L	266 T	īming of Spin Fit data	10/16/2009		1	Jim L	that data.	
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 2148g and h 4020 Respond to SPDF's email concerning 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 jim L jim L 4008a He requested some exits datetime formats. A. Numerical month & imm (e 2007-03-23100.00.0). this option isn't listed. 3/12/2010 Pat from a scientist (Marini Connors?) 1 Jim L jim L jim L 4008b 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 2007-03-23100.0000) 3/12/2010 Pat from a scientist (Marini Connors?) 1 Jim L Jim L 4022 Update L1 master cdfs to support SPDF hosting 3/22/2010 Jim L 2 Jim L 3/10 L 4033 Spin Model reset Stiffig 2010 Jim L 2 Jim L 3/10 L 4040 Spinifis - separate E&B timestamps? 4/15/2010 Jim L 2 Jim L 3/10 L 4046 either thm. load, fit of the GUI code that calls thm. load, fit should spit the data into separate tp	v	rectorize this operation, we could get serious speed increases.	1/25/2010	Pat	1	Jim L		
what is in the L1 cdfs that are not in the L2 cdfs that users may want to use. what is in the L1 cdfs that are not in the L2 cdfs that users may want to use. what is in the L1 cdfs that are not in the L2 cdfs that users may want the (ie 2007-03-2300.00.00). It is option isn't itseld. 3/12/2010 Pat from a scientist (Marini 1 Jim L 4008b He requested some extra datetime formats. A Numerical month & ince (ie 2007-03-2300.00.00) 3/12/2010 Pat from a scientist (Marini 1 Jim L 2007-03-23T00.00:00) Our "save data as" meru doesn't remember the previous directory > that the user saved to. It could and it should. 3/12/2010 Pat from a scientist (Marini Connors?) 1 Jim L 4016 Our "save data as" meru doesn't remember the previous directory > that the user saved to. It could and it should. 3/12/2010 Pat from a scientist (Marini Connors?) 1 Jim L 4022 Update L1 master cdfs to support SPDF hosting 3/25/2010 David 2+ Jim L 4036 SpinModel reset 5/19/2010 Jim L 2 Jim L Sum L 4046 spinfits - separate E&B timestamps? 4/15/2010 Jim L 2 Jim L Sum L 4046 sign modeling during shadows BugZid-43 Vassilis 2 Jim L 2 Jim L	248 o	once in a while (maybe 10-20 occurrences per probe during the entire	9/10/2009			}	see 2149g and h	
itme (ie 2007-03-23/00:00:00). this option isn't listed. scientist (Martin 4008b 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 2007-03-23100:000) 3/12/2010 Patf rom a scientist (Martin Connors?) 1 Jim L 4016 Our "save data as" menu doesn't remember the previous directory > that the user saved to. It could and it should. 3/12/2010 Patf rom a scientist (Martin Connors?) 1 Jim L 4022 Update L1 master cdfs to support SPDF hosting 3/25/2010 David 2+ Jim L 4048 Spin Model reset 5/19/2010 Jim L 2 Jim L SPDF has issue creating plots on the L1 data with their software 4048 Spin Model reset 5/19/2010 Jim L 2 Jim L SPDF has issue creating plots on the L1 data with their software 4048 Spin flis - separate E&B timestamps? 4/12/2010 Pat 2 Jim L SPDF has issue creating plots on the L1 data with their software 4048 Spin flis - separate E&B timestamps? 4/23/2010 Pat 2 Jim L SPDF has issue creating plots on the L1 data with their software 4048 Spin the GUI code that calls thm_load_ff already does something like this. Se	v	what is in the L1 cdf's that are not in the L2 cdf's that users may want	3/25/2010	David	1	Jim L		
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4063 Spin Model reset 5/19/2010 Hannes 2 Jim L 4040 Spinfits - separate E&B timestamps? 4/15/2010 Jim L 2 Jim L SPDF has issue creating plots on the L1 data with their software 4046 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_fit already does something like this. See task 4040 Pat 2 Jim L Jim A/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 easy solution. 2082a Spin modeling during shadows BugZid=43 Vassilis 2 Hannes Jim L On Hold - awaiting Jim MCFadden release: Then send David Sub Task List; Calibration variables removed from L1 data master CDF. (Side note: found and reported a bug in SKTEditor, which the Goddard team has agreed to fix) Valiting of feedback from Jim McFadden about how calibration data should be handled (TH-A ASCII calibration or aniables 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 2038 STATE Web Page (s) Vassilis 2 Jim L determine if to be reassigned 2039 bad timing s								
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	038 S	STATE Web Page (s)						
						<u>}</u>		
2043 Refactor repeated CDF library code in CDF processing tools Vassilis 2 Jim L BugZid=50 Vassilis 2 Jim L				Vassilis	2	Jim L		

2046	Create a more efficient & productive prototype QA Instrument Command Line Script - first template (s) functional blocks then scripts for FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag, State, SST, ESA		Vassilis	2	Jim L	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 V01 files around for a while to ease the transition) BugzID=45		Vassilis	2	Jim L	Discuss with SPDF whether having one variable with multiple data sources is difficult for them
2047a	FGS sample times and values, showing repeated timestamps. BugzID=113 (BugzID=67 must be done first)		Vassilis	2	Jim L	
2047b	Repeated timestamps and gaps in spin fit data BugZid=113 (#67 may fix this one as well).		Vassilis	2	Jim L	
	Non Monotonic timestamps. BugzID=72		Vassilis	2	Jim L	
	bau_sunpulse_met assumes x86 endiannes (BugzID=13) 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	2 3+	Jim L	
4075	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	3	Jim L	
4023	Before EOM reprocess L1 cdf's due to master cdf changes for SPDF	3/25/2010	David	3	Jim L	
2080	Phantom packets" cause non-monotonic distribution times. BugzID=25, low priority.		Vassilis	3	Jim L	
	Evaluate CDF compression algorithms BugZid=81		Vassilis	3	Jim L	
2083	Add "last processed" time to L1 (and L2?) CDFs BugZid=115 . 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_gse','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		Vassilis Christine	3	Jim L	
	Jim M					
	Reprocess FGM for David Fisher new calibration files SCM CAL File Processing Doc	5/17/2010	Pat Vassilis	1 1	Jim M Jim M	waiting for next fgm reprocessing 5/21/10 Olivier will review
	L2 EFI cdf (quality flags) Sort out if TDAS software can run off SPDF cdf's	8/31/2004 3/5/2010	Vassilis David	1	Jim M Jim M	Test data sent to John B for review by 7/1 sent Tami list of Calibration files - Jim M needs to check if zeros directory online
4043	Paper on interdependentcies of FGM and STATE Reprocessing	4/19/2010	Pat	1	Jim L / Jim M	Jim L provided beginning to Jim M. Hannes needs to review as well. In progress early week 6/21-6/25
	Ken Bromund's Processing issues Revise thm_load_fit (command line and GUI) to load the additional L1 variables.	6/1/2010 3/2/2010	Ken Jim L	1 1	Jim M Jim M	will send an email pre-requisite 3099c test data (Jim L) and awaiting FSW patch from PRH to create test data for 3099-d
3099e	Revise thm_cal_fit, and thm_cal_efi to do the right thing when EFI-Z is not present.	3/2/2010	Jim L	1	Jim M	pre-requisite 3099c test data (Jim L) and awaiting FSW patch from PRH to create test data for 3099-d -
3099f	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	pre-requisite 3099c test data (Jim L) and awaiting FSW patch from PRH to create test data for 3099-d - in progress; Jim McFadden needs to vet and make a change in one of his programs
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.	2/22/2010	Vassilis	1	Jim McFadden	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 McFadden needs to review.
4033b	Add solar wind mode flag to L2 MOM, ESA B86and then reprocess. Start - Stop Times	4/12/2010	Team	1	Jim M	Pre-requesite 4033a (Jim L) completed. Ask Vassilis do we want to put in L2 cdfs? Answer Yes
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	
	EFW spike removal	2/1/2010	Vassilis	1	Jim M	
	Update overview plots to handle survey FFTs? I noticed a bug in thm_load_efi when implementing the "raw" keyword in the gui. If you set the suffix keyword, it only applies the suffix to some of the quantities that it loads. Any tplot variables ending in	5/7/2010	Pat	1 1	Jim M Jim M	Document in program and User's guide. Make sure Vassilis is okay with no program change.

	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	1 week
	A grad student brought my attention to some missing on-board moment plots for September/October 2007, THEMIS A (See September 23) I ran the routine to generate the plots on my computer and it worked fine so I think that the plots are missing because either #1 The data arrived late or #2 The script to generate the plots had bug that was subsequently fixed. I think we may just want to reprocess the space based moments for that time.	4/15/2010	Pat	1	Jim M	ESA had bad packets around that time	tbd
4042	Script to run every two weeks to runs IDL TDAS and checks if a file can be loaded from THEMIS SPDF file (s)	4/19/2010	Pat	2+	Jim M		
2227	L2 SST cdf revisions	8/31/2004	Vassilis	2+	Jim M	awaiting SST calibrations	
******	EFI and SST Calibration Documents had expected that this cotrans would occur at the very end, after all	4/30/2010 11/12/2009	David Jim	2	Jim M Jim M	see 2256	
2283	There is another aspect to this problem. Dead-time corrections are	11/2/2009	Jim	2	Jim M		
2050	severe for ion ESA SW data and there are no dead-time corrections found 3 errors in the new th* 12 esa masters - the good news is, with		Mcfadden		line M		
2058	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		
2062	Alberta - At the moment the data files are from Dawson (daws), Churchill (fchu), Island Lake (isll) and Fort McMurray (mcmu). I will add Rabbit Lake and Taloyoak at some time but we have some issues with mag pointing at those 2 sites. If you recall, the agreement between Ian and Vassilis was that this data wouldn't be copied to become part of a mirrored archive like the existing data we provide. Instead, each file would be obtained from this site each time it is requested (using curl or some such). This means we can use our own logs to monitor data usage. Themis Software to be able to retrieve from Alberta		Vassilis	2	Jim M		
	Administrator's Guide		Vassilis	2	Jim M		
	Themis Developers Guide thm_load_mom: for quantities like velocity, the coordinate system isn't stored in the meta data, and none of the units are stored in the place we normally try to store them (from Pat - Vassilis concurs) Will take a look.		Vassilis Vassilis	2	Jim M Jim M		
2090	that streamlines the generation of gmag stackplots and a crib to show how to do this. (< than a day)		Vassilis	2	Jim M		
2091	Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission		Vassilis	2	Jim M		
2092	thm_load_mom changes - reconcile mods with Davin at an		Vassilis	2	Jim M		
2055	appropriate time. ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA		Vassilis	2	Jim M	On Hold; awaiting Jim L to split L1 into master cdf	
4002	Document: SST File and Calibation Processing	3/5/2010	David	2	Jim M		
4003	Document: ESA File and Calibation Processing	3/5/2010	David	2	Jim M		
	AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis:		Vassilis	3	Jim M		
	Overview plot change: mode bar seems thick		Vassilis	3	Jim M	nothing we can do easily	
	Mosaic Processing - permanent script needed EFI calibration		Vassilis John Bonnell	3	Jim M Jim M		
2100d	DC offset between 4sdo and 2sdo in boom plane		John Bonnell	3	Jim M	Which is better? Assigned to J. B. (low priority).	
2100h	Try to track down frequency scaling problem in DPWRSPC (dlimit		John Bonnell	3	Jim M	On Hold - low priority	
2100p	setting? Compare to old plots?). Modify THM_CAL_FIT to treat efs datatype - Install E12/E34 conditional based on th?_fit_code TPLOT variable. If E12 switched to E34 software needs to be revised to handle		John Bonnell	3	Jim M		
	Pat			1			
	Support Mirror Sites		Vassilis	0	Pat		
2069			Vassilis	0	Pat		
2069a	Japan (ISAS)		Vassilis	0	Pat		ļ
2069a 2069b	Austria						
2069a 2069b 2069c			Vassilis Vassilis Vassilis	0 0	Pat Pat	(Rumi - not always up to date for gmags) The -12 days ones are ones that Kathryn indicated are on the fritz: BMLS,UKIA,HOTS,PINE.	
2069a 2069b 2069c 2070	Austria France		Vassilis	0		The -12 days ones are ones that Kathryn indicated	

2033 Georgenc for UL Calagory in Earling. Contacting Ennis Sparswork 152/01 Paulur M 0 Paulur M 0 Paulur M 0 2034 UAdaka at working 127/2008 Um M 0 Paulur M 0 Paulur M 2034 UAdaka at working 127/2008 Um M 0 Paulur M 0 Paulur M 2035 Winnian werk Routed Late that the factor is the activity stars at working genes for the MUM winnish werk factor is the activity stars and etholds the late of the activity stars and etholds the stars working genes for the MUM winnish werk factor is the activity stars and etholds the late of the activity stars and etholds the merced on stars working genes for the MUM winnish werk factor is the activity stars and etholds the merced on stars working genes for the MUM winnish werk factor is the activity stars and etholds the merced on stars working genes for the MUM winnish werk factor is the activity stars and etholds the merced on stars working genes for the MUM winnish with werk factor is the activity stars and etholds the merced on stars working genes for the MUM winnish with werk factor is the activity stars and etholds the merced on stars working genes for the MUM winnish with werk factor is the activity stars and etholds the merced on stars working genes for the MUM winnish with werk factor is the activity stars and etholds the factor i	2070c	Greenland - I think the following stations in our archives are essentially unusable scientifically (non calibrated-mis labeled): nrsq amk atu dmh dnb gdh kuv naq nrd sco skt stf svs thl umq upn Following up with DTU on ways to correct. ***Periodic Download - go for it ***Old data not calibrated - what to do? ****Release Greenland to SPDF? Integrate into load routines (yes)		Vassilis	2	Pat	On #1 Is there any way for us to calibrate the DMI data - answer is NO. Basically what he's saying is that all our old greenland data is in raw format, but none of our documentation is labeled to indicate this. Someone could easily use the greenland data by accident and think that it is actually calibrated. Replacing the old 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.	
225 Wein res FGM Callies core from David Fahler reprocessing 10162008 Pail 0 Pail availing next FGM reprocessing 11162008 0405 Menn informadu ta hitch isolated to listed in the advocwid/genetic for the RVD/Walk, somehold in the advocwid/genetic for the RVD/Walk isolated in the advocwid/genetic for the RVD/Walk isolated in the advocwid/genetic for the RVD/Walk isolated in the advocwid/genetic much spaced advocmines. Samehold is using the new materia to any advocmine data and any method in the some much spaced advocmines. Samehold isolated in the route wide mode, and apply contention. 1218/2000 Davin 1 Pail Junit 40033 completed - This is ready to be worked common. 1218/2000 0205 Diseas source code from Davin d determine source of cristin fill values advocmines. 1218/2000 Davin 1 Pail Junit 40033 completed - This is ready to be worked common. 0205 Diseas source code from Davin d determine source of cristin fill values advocmines. 1016/2010 Upin Wilcon 1 Pail Davin 1 Pail 1005 The code source advocmine dating at sate to advoc for the say XX21. Hink weighted advoc for the fill to the values advoc for the values advoc for the fill	3033		1/5/2010	Pat/Jim M	0	Pat	SNAP - only one still missing per Emma,	
Incords. 427/201 Variation 1 427/201 Variation 427/201 Variation 427/201 Variation 1 427/201 Variation 1 427/201 Variation 427/201 Variation 427/201 Variation 1 427/201 Variation 1 427/2010 Variation	3034	U Alaska all working	12/7/2009	Jim M	0	Pat		
4022 Materia Informed us that in Informed us that in advocated agreement for the INUVINANE, comprehensing management program and us with the THE ND protocile as support. At the mater calculation with the THE ND protocile as support. At the mater calculation is the management of the INUVINANE, comprehensing calculation and the Intervention of us that the field of the carrier adhubble. 12/18/2009 Dark in the intervention of the intervention of us that the reservent of the carrier adhubble. 12/18/2009 Dark intervention of the intervention of us that the reservent of the intervention of us that the intervention of th	2265		10/16/2009	Pat	0	Pat	awaiting next FGM reprocessing	
30255 Determine scalars and diffetis for converting ourside wind mode. Image: Second is a second is not and mode. Image: Second is a second is not and mode. Image: Second is a second is not and mode. Image: Second is a second is not and mode. Image: Second isecond is not and mode. Image: Second is n	4052	Martin informed us that he should be listed in the acknowledgments for the INUV(Inuvik), somehow his magnetometer got mixed in with the THEMIS gmags as UCalgary. As in the previous task, Martin will deliver new meta data as an amended master cdf or text file. Then we will need to reprocess the Inuvik data using the new master so	4/27/2010	Vassilis	0	Pat		
match ground based moments during solar wind mode.Image: Solar So	3025	SST Code development	12/18/2009	Davin	1	Pat		
corrections. corrections local corrections local local <thlocal< th=""> <thlocal< th=""> local</thlocal<></thlocal<>	3025a					Pat		
Verture Verture Part Devine, crib, Suites, Scripts and Doc updates Part 4068 Lynn Wilson possible onhacements 00/12010 Lynn Wilson 1 Part Review Lynn's onhware and generate list of features 0 4069 The conclustes system of the THEMIS GBO graags. The CDF says \$122010 Part 1 1		corrections.						
Image: Control of the coordinate system of the THEMIS GBO grags. The CDF says (46) Distance (1) Patt Pattt Patt Patt							Davin, crib, Suites, Scripts and Doc updates	
HD2 but the crib says XVZ. I think we probably freed to update the 4051 Wassilia we have to me to ensity usdout adding a task to add 4 magnetometers(PI: Marin Conners) to our data archives as that their data can be accessed with TNRS (CL & GU) The files are already to calking scripts to accommodate periodic raynes to their eaving or adving scripts to accommodate periodic raynes to their eaving decision and one time relief of Data archives so that their decision as one time relief of Data archives to their eaving decision and one time relief of Data archives to their eaving decision are i. LARG.LETH.ROTH. & REDR. In progress. The new grange abbreviations are: LARG.LETH.ROTH. & REDR. 4035 When you do a coordinate transform on data, the variable name is updated, but the y-axis label to search for coordinate systems is a business that we want og et into, but as it is a common outcome is to generate data whose default labels to search for coordinate systems is a business that we want og et into, but as it is a common outcome is to denormal the probleme - Interpolate - error than business default labels are incorrect. 11/15/2010 Pat 1 Pat 42 Laaded data for data 2007.03-24. Types: eff. yaw, that add the probleme - Interpolate generate data whore default labels are incorrect. 11/15/2010 Pat 1 Pat 42 Laaded data for data 2007.03-24. Types: eff. yaw, that add the quark of the ascord ard data we want og eff. Interpolate - Interpolating state data to match eff. yaw, there fauge - bad item not skipped, following items not processed. 11/15/2010 Pat 1 Pat 44 Data 2007.03-24.27.06.2007.03								
magnetometers(Pt: Matrin Connors) to our data archives so that their data can be accessed via TDAS (LC & GUI) The files are afraeds in magnetometer data. The task would invoke small modifications to our existing scripts to accommodate periodic rsyncs to this new location. To accomplish this task will require a delivery from Matrin of either magnetometer data. The task will require a delivery from Matrin of either magnetometers data. The task will require a delivery from Matrin of either match well with archive senser. The new granges abbreviations are: LARGLETH, ROTH, & REDR. 4/14/2010 Pat 1 Pat 4.5 hrs 4038 When you do a coordinate transform on data, the variable name is uspate. A to the you have to be serve in from contante serve ip location, as it is a common outcome is out of range – task tables are incread. 4/14/2010 Pat 1 Pat 42 Loaded data for data 2007-03-24. Types: eff. yaw, that dgl, dgl, dgl, dgl, dgl, dgl, dgl, dgl,		HDZ but the crib says XYZ. I think we probably need to update the					T	
updated, but the y-axis label for the variable stays the same. I'm not sure if picking apart the labels to search for coordinate systems is a business that we want to get into, but as it is a common outcome is to generate data whose default labels are incorrect. Image: I	10010	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	42172010	vasans		T di		
out of range bad item not skipped, following items not processed. Image:	4035	updated, but the y-axis label for the variable stays the same. I'm not sure if picking apart the labels to search for coordinate systems is a business that we want to get into, but as it is a common outcome is	4/14/2010	Pat	1	Pat		4-5 hrs
"data out of range" error if no state samples fall within the efi_vaw Image: "Make state active. Select "interpolate", select "match" match to quantity "efi_vaw", select "extrapolate", select "interpolate", select "interpolate", select "interpolate", select "interpolate", select "active. Select "interpolate", select "setrapolate", select "interpolate", select "interval, select	3043		1/15/2010	Pat	1	Pat	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	
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.		"data out of range" error if no state samples fall within the efi_vaw time range.					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	
3052 The last time we have GBO data is 1/12/10 2/2/2010 K. Rowe 1 Pat the gap to the end of the month	3048a	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	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	the gap to the end of the month	

	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		
3068	120. GUI GMAG cotrans error, says coordinate system is undefined	2/11/2010	Pat	1			
	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		
	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.	
	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		
3053	102. Tplot_gui overwrite warning when importing data, even if variable gets renamed.	2/3/2010	Pat	2	Pat		
	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		
	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		16
4013	Plot Description Doc Button	3/22/2010	David	2	Pat		40
	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	
2201	One feature that was never implemented for the mini-language is globbing. (The ability to use '*' and '?' to reference multiple tplot variables at once.) This is a feature that is standard with many of our other tplot data processing routines. I think it would be very useful to include in the mini-language.	8/5/2009	Pat	2	Pat		
	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	
	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		
	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	2	Pat		
	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	2	Pat		8 hrs
	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	3	Pat	chech draw object	4 hrs
	The TDAS Software will be enhanced to incorporate data from the STEREO mission.	3/8/2010	David	3	Pat		
	STERES mission.		ĺ				

	add the following ancillary ground-based observations: MAGDAS Network, Auroral Electrojets (AE) and Ground Radars (SuperDarn, AMISR and Sondrestorm)	3/8/2010	David	3	Pat		
	EPO-GMAG msgs: modify the script and only issue this message if > 2 days $% \left(\frac{1}{2}\right) =0$	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	
	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		4-8 hrs
3063	40. CL tplot options setposition test plots all look the same	1/15/2010	Pat	3	Pat	Long-standing tplot bug, may not ever be fixed	4 hrs
4029	One of Michael Hartinger (a grad student in atmos) is having trouble Misc	4/6/2010	Michael	3	Pat	Michael supplied code for thm_part_moments	
	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	16-24 hours