The incommend of the first which figure is to be income and the in	Task#	Task Description	Date Opened	Reported By	Dri	Assigned To	Notes	Estimate (hrs)
April		To be Assigned or Discussed	Opened	Бу	FII	Assigned 10	Notes	
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in this kis Perce and yueding depresentation energies, rather than an low ways of the whole large.  **Product Search Sear		the status bars and plots can get squished together in a way that is		accommon acc				
11		It looks like Perez only used representative energies, rather than an	8/6/2010	Pat	?	Pat	should actually use a weighted average rather than average over it because the energy bins are not evenly spaced and thus each bin has a different size in energy. In my testing this only accounted for a small amount of error, the three issues above made the vast majority of difference. Still it should be easy to fix and should make the angular spectra results slightly more	
### 1415   Common								
1114   115   Concept that the Data's Contribution Tools - (subschaperies) [all print   Control that the Data's Contribution Tools - (subschaperies) [all print   Control that the Data's Control that the Control that t	4112							
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4943   Pager on interdependentices of FOM and STATE Reprocessing 419/0010   Pat 1   July   David - Put Paper into themis due format - tips du jour?		I noticed that the Data->Collaboration Tools->(subcategories) fall behind the ARTEMIS graphic.					Run Compatiability View in Internet Explorer	
April   Document Administrators Guide   1975/2009   Value   2   Team   Incorporate electron calibration into data   1975/2009   David   Davin   Davi							David - Put Paper into themis doc format - tips du jour?	
April   Document Administrators Guide   1975/2009   Value   2   Team   Incorporate electron calibration into data   1975/2009   David   Davin   Davi	4000	Document: Developers Guide	3/5/2010	David	2	Team		
Enhanced SST and MoM Instrument Web Pages   1970   20   30   19   19   19   19   19   19   19   1		Document: Administrators Guide	3/5/2010	David		Team		
2103 EAC offsets 22 one outstanding issue with THIL LOAD/THIM_CAL_EFI is that for some reason when I ask for the calibrated data in SPC (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 deficient impact on my adjust to evaluate the EFI didit quality.  2216 Fix the sign reversal of e34.  2216 Fix the sign reversal of e34.  2217 Fix the sign reversal of e34.  2218 Let Fix cdf (quality flags)  2219 Martin Broth  2220 Martin Broth  2220 Martin Broth  2220 Martin Broth  2220 Martin Broth  2221 Martin Broth  2222 Martin Bro			10/25/2009					
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		processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it up	7/14/2010	v assills		i iaililes		
			5/10/2010	Hannes	1	Hannes	starting next set of offset determinations	

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4058	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	testing first version: tests look very good so far	
2074c	! quality flag for FGM data		Vassilis	2	Hannes	on hold	
	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						
2013aa	Possible Contacts: APL, ITT IDL teacher			<del> </del>		meeting with Vassilis an Xuzhi on 8/6	
2013ab	Mark one count level (dashed line)					Vassilis wants to talk to Jim Mcfadden about this	
2013r	Check on position of SST sun contamination (appears to be in the wrong place)						6-8 hrs
2013s	combine SST and ESA slices into a single plot?						2 days
2013t	Allow for loading of user-specified distributions in gui						4-6 hrs
2013u	i*(Later) Transform between distribution types w/o re-creating slices		Vassilis	1	Aaron		1 day
2013v	Create our own version of slicer3.pro that can take user input to setup colors, orientation, etc. when it's called.		Vassilis	1	Aaron		2+ days
2013w	Integrate our own slicer3.pro gui with regular 2-D slice plots.		Vassilis	1	Aaron		2 days
2013x	User's Guide write-up and then review with Xuzhi		David	1	Aaron		
3046	Fix labels/change coords for on-board moment velocity plots. Data is DSL, label says GSM	1/25/2010	Vassilis / Miyashita	1	Aaron		
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		
3014	We don't have support for filled symbols. This means symbols are only	12/11/2009	Pat	2	Aaron		
3016	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	2	Aaron		1 day
3031	GUI Overview plots sometimes have diamond shaped artifacts in the sample rate bar. Should fix.	1/5/2010	Vassilis	2	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
3001	I'm getting a crash in the calculate window after I delete the text in the program area and then click on a data quantity from the tree. The error message is below.	12/7/2009	Aaron	2	Aaron	found during EFI testing	
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
3083	137. GUI spinner controls when inputing value >= 2^16/2 in grid 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.	2/16/2010	Pat	2	Aaron	Probably short data type used where long required, affects many of the spinner controls	6-10 hrs
3084	139. GUI variable options more status bar/history window updates needed.	2/16/2010	Aaron	2	Aaron	the only message that ever printed was "1: Cannot Set Value variable, no variables"	1-2 hrs
2027e	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
1579	When importing a variable with a valid 'V' component in its data struct, but no spec flag set in its meta data, the loaded data object fails to load the y-axis. This should be fixed, as it ends up incorrectly loading certain spectral quantities.		Pat	3	Aaron		
2121	When thm_load_fit is called requesting a single data type it will also return some auxiliary data types. For example: thm_load_fit,probe='b',datatype='fgs' returns: 1 thb_fit_code 2 thb_fit_npts 3 thb_fgs. load bug or test script bug) b. The relpathnames all keyword is broken.			3	Aaron		
2028	Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi, _gmag, _ask, _mom, _esa_pkt		Vassilis	3	Aaron		
2029	From Hannes		Hannes	3	Aaron		
2029a	Provided is the most common plot used by scientists that look at		Hannes	3	Aaron		

2029b	The level 2 CDF files at http://themis.ssl.berkeley.edu/data_download.shtml should contain position in various coordinate systems as well. Preferably in the same resolution as the data. Otherwise Scientists need to get the 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	3	Aaron		
2029c	If one loads fgm data from probe 'a' and let's say there are no data for the chosen interval. The variables tha_fgl and tha_fgl_gsm etc. should all be empty. It could be those variables still contain data from the previously loaded interval.	000 mm o marine (mm o mm	Hannes	3	Aaron		
2030	upgrade thm_load to work with probe assignments		Vassilis	3	Aaron		
2031	move functionality of thm_load_state2 into thm_load_state and delete thm_load_state2		Vassilis	3	Aaron		
2032	Multiple enhancements concerning keywords, valid_names and		Vassilis	3	Aaron		
	thm_load routines  Cindy						
	· · · · · · · · · · · · · · · · · · ·						
4102	Jim L L0-L1 Processing bug - solar wind flag	7/26/2010	Pat	0	Jim L	fixed in trunk; add to next tmtolls release and reprocess L0->L1>L2 MOM, ESA and possibly SST	
4030	cross-check SST psir6 and psif data types for excess counts in psir6	4/8/2010	Jim McFadden	1	Jim L	LU->L1>L2 INIONI, ESA and possibly 331	
4030a	Review Onboard Scripts for possible error.	5/17/2010	Jim Lewis	1	Jim	in progress:	
					McFadden, Davin, Robert Abiad		
4030b	Correct Existing Data	5/17/2010	Jim	1	Jim L	4030a prerequsite	
4030c	If scripts change - make changes to processing scripts	5/17/2010	McFadden Jim Lewis	1	Jim L	4030a prerequsite	
40300	п эспръ спануе - make changes to processing scripts	3/11/2010	JIIII LEWIS	'	JIIII L	Hooda bieledraire	
4034a	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, Hannes to send Ferdinand an email asking about the other probes.	
4074	possible 2 sec error in L1 FBK timestamps	6/10/2010	Vassilis	1	Jim L		
4074a	Figure out whether there's a problem with L1 FBK, and whether L1 FFT	6/10/2010	Vassilis	1	Jim L		
4074b	is also susceptible to a similar problem.  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	Sent out revised versions of L1 FIT, FBK, FFW_16 CDFs, waiting for feedback from Bob & Tami before tackling some of the more complicated CDF types.	
	Build new release of tmtools, reprocess L1 FBK and L1 FFT for the entire mission.	6/10/2010	Vassilis	1	Jim L		
	Reprocess L2 FBK and L2 FFT Build new release of tmtools, reprocess L1 SST for the entire mission.	6/10/2010 6/10/2010	Vassilis Vassilis	1	Jim M Jim L	dependent on 4074c to be completed in progress - awaiting task 4030 for SST tmtools mods	
	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 4/5/2010	Vassilis Tami - SPDF	1	Jim M Jim L	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.	
4070	"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 - send email waiting for Davin to describe how the tensor quantities in thm_load_mom need to be handled.	
2149g	write a routine to check time tag monotonicity and repair tplot variable if necessary (with options for "replace with NaN" and "delete")		Jim L	1	Jim L	Create a routine to clean up tplot variables. Use in the 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 that data.	
2266	Timing of Spin Fit data	10/16/2009	Jim McFadden	1	Jim L		
3048b	spinmodel_interp_t loops over each time segment individually. If we vectorize this operation, we could get serious speed increases. Would generate speedups EFI and for other calibration routines.	1/25/2010	Pat	1	Jim L		
2149h	integrate time tag fixer-upper with TDAS load routines	0/40/07	Jim L	1	Jim L	2440	
2248	once in a while (maybe 10-20 occurrences per probe during the entire mission), the FGM range doesn't change on all three axes at once:	9/10/2009	Jim L	1	Jim L	see 2149g and h	
	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		
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 '2007-03-23T00:00:00')	3/12/2010	Pat from a scientist (Martin	1	Jim L		2 hrs
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	Pat from a scientist (Martin Connors?)	1	Jim L		see above

4022	Update L1 master cdfs to support SPDF hosting	3/25/2010	David	2+	Jim L		
3093	Automate processing of eclipse sunpulse data from FGM team	2/22/2010	Jim L	2+	Jim L	CDDE has increased as a late on the Ld date with their	
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_fft already does something like this. See task 4040	4/23/2010	Pat	2	Jim L	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 easy solution.	
2082a	Spin modeling during shadows BugZid=43		Vassilis Vassilis	2	Hannes Jim L	Jim L to write routine. Hannes send info.	3-4 days
2035	Split L1 ESA (using Thomas's routine) in master ESA data cdf					On Hold - awaiting Jim McFadden release: Then send David Sub Task List; Calibration variables removed from L1 data master CDF. (Side note: found and reported a bug in SKTEditor, which the Goddard team has agreed to fix) Waiting for feedback from Jim McFadden about how calibration data should be handled (TH-A ASCII calibration file (used for all probes) doesn't match anything I removed from the data CDF).	
2036	GOES 10-12 Test data: h. update labels (Howard's request - minor tweak)		Vassilis	2	Jim L	determine if to be reassigned	
2038 2039	STATE Web Page (s) bad timing sun pulse times (early January 2009)		Vassilis	2	Jim L	review web pages Clarification needed	
			Vassilis	2	Jim L	Clarification needed	
2040	L1 Data Processing History Info: SCM, EFI, STATE  Refactor repeated CDF library code in CDF processing tools BugZid=50		Vassilis Vassilis	2	Jim L 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		
2077	Non Monotonic timestamps. BugzID=72		Vassilis	2	Jim L		
2078	bau_sunpulse_met assumes x86 endiannes (BugzID=13)		Vassilis	2	Jim L		
2047	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	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 timetagging 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,		Vassilis	3	Jim L		
2081	low priority.  Evaluate CDF compression algorithms BugZid=81		Vassilis	3	Jim L		
2083	Add "last processed" time to L1 (and L2?) CDFs BugZid=115		Vassilis	3	Jim L		
	,			-	y <u>=</u>		
2084	transforming one data point from SM coordinates to GSM coordinates. ct=time_double('2008-02-16/04:50:00') dipole=[[0],[0],[1]] v=[1,2,3] store_data,'dipole_sm',data={x:ct,y:dipole,v:v} cotrans,'dipole_gsm',dipole_gsm',SM2GSM cotrans,'dipole_gsm',dipole_gsm',SM2GSM get_data,'dipole_gse',data=dipole_gse xdipgse=dipole_gse.y[0] ydipgse=dipole_gse.y[1] zdipgse=dipole_gse.y[2] titl=atan(xdipgse,zdipgse) When I check the data for 'dipole_gsm', the values are 0,0,0. I'm not sure what they SHOULD be, but I know that their magnitude should equal 1. sqrt(x^2+y^2+z^2)=1		Christine	3	Jim L		
4097	cdf's with MD5 checksum	7/19/2010	Jim L	3	Jim L	Jim L to send email with subtasks and estimates	
	Jim M						
4033b	Add solar wind mode flag to L2 MOM, ESA and SST then reprocess. Start - Stop Times	4/12/2010	Team	1	Jim M	we will have to reprocess again MOM once two bugs fixed.	

4100 4095	thm_load_mom bug - solar wind flag Take CDAweb from TDAS release	7/26/2010 7/12/2010	Pat Tavis Saito -	0	Jim M Jim M	fixed - I believe and then reprocess (waiting for Jim L) eta 7/26	
4061	Reprocess FGM for David Fisher new calibration files	5/17/2010	Alberta Pat	1	Jim M	I believe done ???	
2057 4004	SCM CAL File Processing Doc Sort out if TDAS software can run off SPDF cdf's	3/5/2010	Vassilis David	1	Jim M Jim M	5/21/10 Olivier will review - pinged Olivier again on sent Tami list of Calibration files - Jim M needs to	
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	check if zeros directory online  Run independent test on thm_load_esa_packet	
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.	
3051	EFW spike removal	2/1/2010	Vassilis	1	Jim M	Jim can't reproduce the crash that was reported.  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.	
4092	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 **	
3041	as default for all the FORMAT variables: "E13.6". Update overview plots to handle survey FFTs?	1	1	1	Jim M	John B: what you propose would work to put the FFF	
						and FBK on a more equal footing, unit-wise. It would make the FFF like the output from laboratory spectrum analysers. I would suggest adding the description of the processing to the pop-up plot description, if possible, and point out that the displayed FFF data are thus different than what would be loaded for FFP, FFW, or FFF; yes? Vassilis: Yes, totally, we need to make sure the description is clear, so people realize that plotted is not the same product they will get from the L1 or L2 data. Maybe we should also call it AFFF (for amplitude) or something else.	
4057	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 _hed or _hed_ac don't receive the suffix.	5/7/2010	Pat	1	Jim M	Document in program and User's guide. Make sure Vassilis is okay with no program change. behavior of 'raw' keyword in thm_load_efi. Consensus: not a bug, no code changes required, document the behavior in the users guide and close the task in progress	
2103	EAC offsets	8/1/2009	John Bonnell	1	Jim M	John will send Jim M code from Chris Cully showing how the offset should be calculated.	
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.	
2216	Fix the sign reversal of e34.	8/13/2009	Michael	1	Jim M	John will send Jim M a date/probe combination that Forrest Mozer used to establish the correct sign of e34. Jim M will make the appropriate thm_spinfit	
2225	L2 EFI cdf (quality flags)	8/31/2004	Vassilis	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	Suggested that we bundle quickstart document in TDAS zip	6/30/2010	Strangeway	1	Jim M	Talk to David - thought we had one	

4083	GOES plots on the web	6/28/2010	Vassilis	1.5	Jim L	Vassilis wants overview plots for GOES, Jim M to write	
						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	
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	
4056	EFI and SST Calibration Documents	4/30/2010	David	2	Jim M		
2288 2283	had expected that this cotrans would occur at the very end, after all the There is another aspect to this problem. Dead-time corrections are	11/12/2009 11/2/2009	Jim Jim	2	Jim M Jim M	see 2256	
	severe for ion ESA SW data and there are no dead-time corrections for	11/2/2003	Mcfadden				
2058	found 3 errors in the new th*_I2_esa masters - the good news is, with them fixed in our masters, all plotting issues w/ the ESA files (in CDAWeb) seem to have been resolved.		Vassilis	2	Jim M		
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 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	2	Jim M		
2087	Administrator's Guide		Vassilis	2	Jim M		
2088 2224	Themis Developers Guide thm_load_mom: for quantities like velocity, the coordinate system isn't		Vassilis Vassilis	2	Jim M Jim M		
2224	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	_	om w		
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		Vassilis	2	Jim M		
	L2 cdf's - entire mission						
2092	thm_load_mom changes - reconcile mods with Davin at an appropriate time.		Vassilis	2	Jim M		
2055	ESA L2 from L1 (not packets) - create L2 and test thoroughly, then		Vassilis	2	Jim M	On Hold; awaiting Jim L to split L1 into master cdf	
4002	reprocess ESA  Document: SST File and Calibation Processing	3/5/2010	David	2	Jim M		
4002	Social of the and cambaton recessing	0/0/2010	David		OIIII W		
4003 2093	Document: ESA File and Calibation Processing  AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis:	3/5/2010	David Vassilis	3	Jim M Jim M		
2094	Overview plot change: mode bar seems thick		Vassilis	3	Jim M	nothing we can do easily	
2095 2100	Mosaic Processing - permanent script needed EFI calibration		Vassilis John	3	Jim M Jim M		
			Bonnell				
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	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		Bonnell John	3	Jim M		
	based on th?_fit_code TPLOT variable. If E12 switched to E34 software needs to be revised to handle		Bonnell				
	Pat	1					
2069	Support Mirror Sites		Vassilis	0	Pat		
2069a	Japan (ISAS)		Vassilis	0	Pat		
	Austria France		Vassilis Vassilis	0 0	Pat Pat	(Rumi - not always up to date for gmags)	
2070	Support gmag data remote sites.		Vassilis	0	Pat	(Kullii - Hot always up to date for gillags)	
2070a	Augsburg (MACC's)		Vassilis	0	Pat		
2070b	Alberta		Vassilis	0	Pat		
2070c	Greenland - I think the following stations in our archives are		Vassilis	2	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					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? <b>Pat must do</b>	
						analysis - will take a bit of time.	
3033	GBO rsync from U Calagary is failing. Contacting Emma Spanswick to	1/5/2010	Pat/Jim M	0	Pat	SNAP - only one still missing per Emma,	
3033	determine source of problem.	1/3/2010	1 agonii W	U	Tat	Oliva - Olly Olic Sali Illissing per Ellilla,	
3034	U Alaska all working	12/7/2009	Jim M	0	Pat		

2265	When new FGM Cal files come from David Fisher reprocess last 6 months.	10/16/2009	Pat	0	Pat	awaiting next FGM reprocessing	
3025	Particle Moment Calibrations	12/18/2009	Davin	1	Pat	need to reprocess MOM	
3025a	Determine scales and offsets for correcting on-board moments to match ground based moments during solar wind mode.	}			Pat		
3025b	Determine when spacecraft is in solar wind mode, and apply corrections.				Pat		
3055	SST calibrations	12/18/2009	Davin	1	Pat		
	Extend thm_pdist to populate all dist struct fields(mass etc) so that moments can be correctly generated	7/1/2010	Davin	1	Pat		
3055d	3055d1 Energy Scales. Scales for scaled raw energy boundaries. There will be 4 parameters. One for each sensor head. 3055d2 Energy 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.	7/1/2010	Davin	1	Pat		
3055e	Provide initial calibration file which contains calibration parameters that were previously hard-coded. This will serve as a template for future modifications.	7/1/2010	Davin	1	Pat		
3055e	In first version, I had split time in calibration file; used separate column for year month date hour minute second, Davin asked that it be stored as one column. This is already done.	7/12/2010	Davin	1	Pat	Davin to Review 3055c - 3055j and see if further changes needed	
3055f	The calibration file should include an additional factor: the nominal g- factor. The other 4 g-factor parameters will be corrections applied to the new factor.	7/12/2010	Davin	1	Pat		
	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		
3055i	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 4068	Put eclipse spin model correction code in SST as already has been done for esa packet pam Lynn Wilson possible enhancements	6/8/2010 6/1/2010	Jim M Lynn Wilson	1	Jim M Pat	wait for SST calibrations  Review Lynn's software and generate list of features	
			,				
4051a	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	In progress. The new gmags abbreviations are: LARG,LETH,ROTH, & REDR.	
4098	small bug on the online overview plots. (At least the ones of data from early 2009) When the specretrogram plots contain no data, the y-axis labels are legible and well spaced, but when the plots have data, different labels are used and these get very cluttered and pile up on top of each other. It should probably use the legible labels in both cases.	7/19/2010	Pat	1	Pat	reprocessing in progress	
4035	When you do a coordinate transform on data, the variable name is 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.	4/14/2010	Pat	1	Pat	in progress	4-5 hrs
3043	36. GUI interpolate error with multiple quantities selected and one is out of range bad item not skipped, following items not processed.	1/15/2010	Pat	1	Pat	#2 Loaded data for data 2007-03-24. Types: efi_vaw, tha fgl_dsl,tha fgh_dsl. Make all data active. In the order above(I believe exact order is important). Open interpolate panel, select "cadence" radio button, leave at default, select limit time, leave at default for quantity vaw(2007-03-24/22:47:06,2007-03-24:22:47:22). Select "Okay", it processes first quantity, then second quantity is out of range, produces error but does not process 3rd quantity(fgh). It should skip over #2.	

3044	38. QA: GUI interpolate Interpolating state data to match efi_vaw,  "data out of range" error if no state samples fall within the efi_vaw time  range.	1/15/2010	Pat	1	Pat	#4 Date 2007-03-24, data efi_vaw, tha_state_pos. Make state active. Select "interpolate", select "match" match to quantity "efi_vaw", select "extrapolate" Select limit time range, select range for efi_vaw (2007-03-24/22:47:26). Says no data in range. What is happening here is that there are state points on either side of the vaw interval, but no points inside the interval. Perhaps one possibility where time is limited & matching is being done, maybe it should limit based upon the range of the match quantity and not the range of the target?	
3048a	Profiled EFI calibration can speed up by reducing the number of calls to spinmodel_interp_t. Right now >95% of time is spent in spinmodel. It calls spinmodel_interp_t 2x for each 3d data type, could probably use a single call for multiple data types with the same cadence.	1/25/2010	Pat	1	Pat		
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	
3058	The size of the windows created by the widgets in IDL for the SCM instrument are too big (at least they were on mine). It was easily remedied by changing the size of the boxes allocated in the probe/Level-1/Level-2 lists in the program thm_ui_scmcal.pro. I simply altered the value passed to the YSIZ keyword in the WIDGET_LIST function call (lines 610 - 628, I think).	2/5/2010	Lynn Wilson	1	Pat		
3068	120. GUI GMAG cotrans error, says coordinate system is undefined	2/11/2010	Pat	1			
4062	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		
4084	Suggested that we update IDL_GEOPACK to use IGRF 2010	6/30/2010	Strangeway	1	Pat		
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.	
4045	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		
2115	tplot does not fail gracefully after illegal margin set. In this case: tplot_options, 'xmargin',[100,100], tplot does not fail gracefully after illegal margin set. In this case: tplot_options, 'xmargin',[-1,-1] -tplot does not fail gracefully after illegal margin set. In this case: tplot_options, 'ymargin',[100,100]			2	Pat		
2267	if you want to load a template, you need to pass the template path in via a keyword, or select an option to open it from the THEMIS->File Menu. I think we should consider adding the template path to the configuration file that we save, so that it can be loaded automatically.	10/19/2009	Pat	2	Pat		16
4013	Plot Description Doc Button	3/22/2010	David	2	Pat		40
2176	I ran into a small annoyance today when loading a themis document. I had originally loaded ESA and SST data for one time period, then overwrote that data by loading the same quantities but for a different time period. I did this several times and then saved the document for later. When re-opening the document I got a series of prompts asking whether I would like to re-write each quantity. It would speed up and streamline the process in this case if data that was later overwritten is not loaded when you open the document.	7/20/2009	Aaron	2	Pat	I spoke to Pat about this yesterday and we both agreed that while we cannot be sure which quantities should be re-loaded and which shouldn't (some may have been used temporarily for calculations). However, we can store the users's original choice to overwrite the data or not. So while we may not be able to save on loading time we can still keep the user from having to click multiple messages and from having to remember what they chose originally. The latter is particularly important since they may receive errors or get corrupted data if they do not choose the correct option	
2201	One feature that was never implemented for the mini-language is globbing. (The ability to use "" and '?' to reference multiple tplot variables at once.) This is a feature that is standard with many of our other tplot data processing routines. I think it would be very useful to include in the mini-language.	8/5/2009	Pat	2	Pat		
2187	I noticed a bug in the x-axis options panel. It probably also applies to the y-axis options. If the set-all button is selected on the grid tab, then changing panels doesn't update the settings on the grid tab to the settings currently displayed for that panel.	7/29/2009	Pat	2	Pat	set to most recent user action for all routines	
2041	thm_load_state out_coord velocity calculations wrong		Vassilis	2	Pat		
2285	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
4005	The TDAS Software will be enhanced to incorporate data from the STEREO mission.	3/8/2010	David	3	Pat		
	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	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	
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	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