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4165 4166 4167 4168 4169 2186 I noticed that the ARTEMI Paper on influence Science Science Asia software date. 4000 Document: Incorporate Enhanced Science S	Task Description To be Assigned or Discussed	Opened	Reported By			Notes	
4168 4169 2186 I noticed that the ARTEMI 4043 Paper on influence incorporate	ssilis to talk to Jim McFadden concerning background removal code of ctrons and ions that Vassilis has developed.	8/23/10	Vassilis	0	Vassilis	Vassilis to send code to Jim McFadden. Visiting graduate student will review with Jim. From Vassilis: Revised code to do subtraction with keywords is included. They work best for inner magnetosphere ions if keywords are set to: bgnd_type='anode', bgnd_npoints=3, bgnd_scale=1.5 the bgnd_type nominal is 'omni' but if one really cares about details, when the background is anisotropic the keyword 'anode' which does anode-dependent background subtraction responds better. The 'bgnd_points' removes the average of the lowest N points rather than the minimum only. The bgnd_scale allows artificial scaling of the bgnd value, to avoid possible underestimate from noise fluctuations. PAT: If Jim agrees, basically you'd have to replace the old "get_" routines with these ones, and also place the minimin.pro in the same directory. Then users can use the above added keywords in their thm_part_moments or other ESA routines and the keywords will be understood by the low level routines.	
2186 I noticed that the ARTEMI 4043 Paper on int the ARTEMI 4001 Document: Incorporate Enhanced Services Incorporate Enhanced Services Incorporate Enhanced Services Incorporate Incorporate Enhanced Services Incorporate Inc							
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4001 Document: Incorporate Enhanced S Enhanced S ASI softwar date. Thumbnail I - cdf files - overview - movies c Full-resoluti - complete F - Up to date Full resoluti - data cdf dapril 2010 - keospan c through April	per on interdependentcies of FGM and STATE Reprocessing	4/19/10	Pat	1	Jim L	David - Put Paper into themis doc format - tips du jour? Vassilis says no	
Incorporate Enhanced S Enhanced S ASI softward date. Thumbnail I - cdf files i - overview movies c and a cdf dd April 2010 - keogram c through April 2013 - Mew Calibra 4080 - Attitude Det 4034b - Ferdinand s processing adequate a him once vc 4154 - GSE-GSM 4058 This is gettif software just configuration scientists) b what the soft the configuration scientists) b what the soft 4150 - Allow slices 2013x - User's Guid	cument: Developers Guide cument: Administrators Guide	3/5/10 3/5/10	David David	3	Team Team		
ASI softwardate. Thumbnail I - cdf files - overview - movies c - overview - movies c - overview - recomplete f - Up to date - Up to da	orporate electron calibration into data	10/25/09	Vassilis		Davin		
Thumbnail I - cdf files - overview - movies c - up to date - up to date - up to date - up to date - data cdf d - April 2010 - keogram c - through April 2010 - keogram c - web site m - Mosaics a - Mosaics a - Mosaics a - web site ov - overview - overview - overview - uclibra - under the configuration - scentists b - what the soft - under the configuration - scentists b - what the soft - under the configuration - scentists b - what the soft - under the configuration - scentists b - under the configuration - under the con	hanced SST and MOM Instrument Web Pages Harald	:	David	!	Davin		
Thumbnail I - cdf files i - overview - movies of Full-resolutii - complete file - Up to date - U	I software - running fine as of 25 May 2010, L1's and mosaics are up-to-				Harald		
- cdf files - overview - movies c - overview - movies c - complete f - Up to date - Full resoluti - data cdf dd - April 2010 - keogram c - through Apri - Web site mc - Mosaics a - Mosaic				-	Harald	Updates ready 7-10th of the next month	
Full-resoluti complete f - Up to date - Full resoluti data cdf dc April 2010 - keogram c - through Apri - Web site mc - Mosaics a -	cdf files done until October 2010			ļ	Tialalu	opuates ready 7-10th of the flext florith	
Full resolution date of data and data a	overview plots done until October 2010 movies done until April 30, 2010			ļ			
Full resolution date of data and data a	Il-resolution raw data:				Harald		
Full resolution data cdf de April 2010 - keogram control de April 2010 - Mew Site me - Mosaics and	omplete for 2007, 2008, 2009			ļ			
- data cdf de April 2010 - keogram conthrough April 2010 - keogram conthrough April 2010 - Web site me - Mosaics al - Mosa	p to date and complete until April 2010			<u> </u>	<u>.</u>		
- keogram c through Apr Web site m - Mosaics ai - Mosaic	ll resolution data: ata cdf done for all 2007 and 2008 and up todate and complete through				Harald		
through Apri Web site mo Mosaics al Mosaics al Mosaics al Web site ov overview 2069d UCLA – min 4153 maintenanc 4018a New Calibra 4080 Attitude Det 4034b Ferdinand s processing, adequate ar him once vc 4154 GSE-GSM 4058 This is getti software jus configuratio scientists) b what the soft the configur that the soft 2074c quality flag 1 2082a Spin modeli 2013 2-D Slices 4148 Slices re-gri off bin size, 4150 Allow slices 2013x User's Guid	ril 2010			ļ	ļ		
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Web site ov - overview 2069d UCLA - min 4153 maintenanc 4018a New Calibra 4080 Attitude Det 4034b Ferdinand s processing, adequate an inim once vc 4154 GSE-GSM 4058 This is gettil software jus configuratio scientists) b what the soft the configur that the soft 2074c quality flag 1 2074c quality flag 1 2074c quality flag 1 2074c Spin modeli 2074c quality flag 1 2082a Spin modeli 2013 2-D Slices 4148 Slices re-gri off bin size, 4150 Allow slices 2013x User's Guid	bb site mosaics and movies:				<u>.</u>		
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- overview 2069d UCLA - min 4153	b site overview plots with full resolution data:			ļ			
4153 maintenanc 4018a New Calibra 4080 Attitude Det 4034b Ferdinand s processing, adequate ar him once yc 4154 GSE-GSM 4058 This is getti software jus configuratio scientists) b what the soft the configur that the soft 2074c quality flag 1 2082a Spin modeli 2013 2-D Slices 4148 Slices re-gri off bin size, 4150 Allow slices 2013x User's Guid	overview plots done for 2007 and 2008 and until mid-November 2009						
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4018a New Calibra 4080 Attitude Det 4034b Ferdinand s processing, adequate an him once vc 4154 GSE-GSM 4058 This is gettit software jus configuratio scientists) b what the soft the configur that the soft 2074c quality flag 1 2082a Spin modeli 2013 2-D Slices 4148 Slices re-gri off bin size, 4150 Allow slices 2013x User's Guid	CLA – mirror site set-up		Vassilis	1	Harald	UCLA has 2-1TB and 2-2TB bricks.	
4018a New Calibra 4080 Attitude Det 4034b Ferdinand s processing, adequate an him once vc 4154 GSE-GSM 4058 This is gettit software jus configuratio scientists) b what the soft the configur that the soft 2074c quality flag 1 2082a Spin modeli 2013 2-D Slices 4148 Slices re-gri off bin size, 4150 Allow slices 2013x User's Guid	Hannes						
4080 Attitude Det 4034b Ferdinand s processing, adequate an imm once vc 4154 GSE-GSM 4058 This is getti software jus configuratio scientists) b what the soft the configur that the soft 2074c quality flag 1 2082a Spin modeli 2013 2-D Slices 4148 Slices re-gri off bin size, 4150 Allow slices 2013x User's Guid	intenance of gmag stations "Exclude List"	10/11/10	David	0	Hannes	_	
4034b Ferdinand s processing. iadequate ar inim once vc 4154 GSE-GSM 4058 This is getti software jus configuratio scientists) b what the soft the configur that the soft 2074c quality flag 1 2082a Spin modeli 2013 2-D Slices 4148 Slices re-gri off bin size, 4150 Allow slices 2013x User's Guid	w Calibration FGM parameters and spin axis offsets itude Determination next few months	5/10/10 6/21/10	Hannes Hannes	1	Hannes Hannes	offsets to be sent to instr scientists awaiting new offsets	
processing, adequate an interpretation of the configuration scientists) by what the soft the configuration scientists by what the soft the configuration in	rdinand sent was an attempt on his part to automate the shadow	4/14/10	Vassilis	1	Hannes	Report sent out on 9/13/10. Jim L to review	
4058 This is gettii software just configuration scientists) by what the soft the configur that the soft that the soft 2074c quality flag I 2082a Spin modeli 2013 2-D Slices 4148 Slices re-gri off bin size, 4150 Allow slices 2013x User's Guid	scessing. He wanted feedback whether the products produced are equate and if the code is amenable to automation. We can pick it up with a nonce you have gone through it.						
software just configuration scientists) by what the soft the configur that the soft the configur that the soft the configur that the soft all the configur that the soft the configur that the soft th	E-GSMsis is getting a bit out of hand I think. How about a configuration file? The	10/11/10 5/10/10	Vassilis Hannes	1	Hannes Hannes	Hannes sent out new version for review.	
2082a Spin modeli 2013 2-D Slices 4148 Slices re-gri off bin size, 4150 Allow slices 2013x User's Guid	tware just reads keywords from a configuration file. With such a nfiguration file it is possible to set keywords automatically (for the entitists) but additionally it would give us the possibility to keep track of at the software does automatically. When I do calibrations I can then save configuration file together with the results and not worry about the things it the software might have done automatically.						
2013 2-D Slices 4148 Slices re-gri off bin size, 4150 Allow slices 2013x User's Guid	ality flag for FGM data	:	Vassilis	3	Hannes	on hold	
4148 Slices re-gri off bin size, 4150 Allow slices 2013x User's Guid	in modeling during shadows BugZid=43		Vassilis	3	Hannes	Jim L to write routine. Hannes send info.	
4148 Slices re-gri off bin size, 4150 Allow slices 2013x User's Guid	Aaron O Slices		Vassilis	1	Aaron		
off bin size, 4150 Allow slices 2013x User's Guid	ces re-gridding: Add nearest neighbor interpolation across energy, based	10/8/10	Vassilis	0	Aaron	I spoke with Vassilis and he likes the idea of doing the slice	2 days
2013x User's Guid	bin size, & implement in gui			-		extraction directly from the data in spherical coordinates rather than transforming into cartesian first in progress	,0
	ow slices based off coordinates other than DSL.	10/8/10	Vassilis	1	Aaron		
: #1122 com (Crib	er's Guide write-up and then review with Xuzhi		David	1	Aaron	changes in progress	
			David	1	Aaron	changes in progress	
some opera sense. For	e data processing panel doesn't allow split components. This is fine for me operations, even required, but for some operations this doesn't make nse. For example, clipping. There is a good chance that some people will nt to clip each component at separate values.	12/11/09	Pat	1	Aaron	analysis completed; Create joinvec routine and implement into GUI data processing window along with splitvec.	4-6 hrs
11/19/10	11/18/10 12:22 PM		1		!	20101118 - Themis Software Task Pr	iorities via

2070		0/40/40	. D-4	: 0		(0	
3079	110. GUI – spinner widget, inconsistencies between actual and displayed value for very small numbers	2/12/10	Pat	2	Aaron	Support exponential notation for very small values	
3079a	Spinner Part	2/12/10	Pat	2	Aaron		
3079b	FormatAnnotation Part	2/12/10	Pat	2	Aaron	The format routine is incorrectly deciding the # of significant digits in a number when using decimal format. I think this may have been done originally for simplicity but it should be fixed	4-5 hrs
	137. GUI spinner controls when inputing value >= 2^16/2 in grid 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.	2/16/10	Pat	2	Aaron	Probably short data type used where long required, affects many of the spinner controls	6-10 hrs
	Finishing the coordinate transformation of the thm_load_state data at input, to include transformation of spinaxis attitude, need to determine keyword switch, implement the rotation of the spinaxis elevation/azimuth from gei to arbitrary coordinates (consult with Pat, Vassilis)		Vassilis	2	Aaron	not allow velocity to go bad	1 hr
2013af	Mark one count level (dashed line)		Vassilis	2	Aaron	Vassilis wants to talk to Jim Mcfadden about this. Jim McFadden to review email.	
2013s	combine SST and ESA slices into a single plot?		Vassilis	2	Aaron		2 days
	Allow for loading of user-specified distributions in gui. 8/23/10 Per Vassillis: For 2013t instead of allowing user specified distributions in the gui I will be adding an option to compare slices with specified functions		Vassilis	2	Aaron		4-6 hrs
2013w	Integrate our own slicer3.pro gui with regular 2-D slice plots.		Vassilis	2	Aaron		2 days
l		12/11/09	Pat	3	İ		_ cayo
3014	We don't have support for filled symbols. This means symbols are only outlines.	12/11/09			Aaron		
	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.	12/11/09	Pat	3	Aaron		1 day
3031	GUI Overview plots sometimes have diamond shaped artifacts in the sample rate bar. Should fix.	1/5/10	Vassilis	3	Aaron	This is a side-effect of the a way that symbols are used as a hack to generate the sample rate bar. Fix after 3014 is fixed.	1/2 day
1579	When importing a variable with a valid 'V' component in its data		Pat	4	Aaron	 	
	struct, but no spec flag set in its meta data, the loaded data object fails to load the y-axis. This should be fixed, as it ends up incorrectly loading certain spectral quantities.				7.4.0		
	When thm_load_fit is called requesting a single data type it will also return some auxiliary data types. For example: thm_load_fit,probe='b',datatype='fgs' returns: 1 thb_fit_code 2 thb_fit_npts 3 thb_fgs. load bug or test script bug) b. The relpathnames all keyword is broken.			4	Aaron		
2028	Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi, _gmag, _ask, _mom, _esa_pkt		Vassilis	4	Aaron		
2029	From Hannes		Hannes	4	Aaron		
2029a	Provided is the most common plot used by scientists that look at magnetic		Hannes	4	Aaron	+	
	The level 2 CDF files at http://themis.ssl.berkeley.edu/data_download.shtml should contain position in various coordinate systems as well. Preferably in the same resolution as the data. Otherwise Scientists need to get the position from another source. Notes from Vassilis: option to introduce the data in RE with keyword (one RE =6,478 kilometers ???). Like thm_load_fgm /pos_units= 'RE'. Also thm_load_state keyword out_coord = 'GSM', 'GSE',etc.		Hannes	4	Aaron		
	If one loads fgm data from probe 'a' and let's say there are no data for the chosen interval. The variables tha fgl and tha fgl gsm etc. should all be empty. It could be those variables still contain data from the previously loaded interval.		Hannes	4	Aaron		
2030	upgrade thm_load to work with probe assignments		Vassilis	4	Aaron	-	
2031	move functionality of thm_load_state2 into thm_load_state and delete		Vassilis	4	Aaron		
2032	thm_load_state2 Multiple enhancements concerning keywords, valid_names and thm_load		Vassilis	4	Aaron		
	routines				1		
	Cindy		;	,			
	Jim L			:	·	<u> </u>	
	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.	4/14/10	Vassilis	1	Jim L	Jim L to review Hannes's report - in progress	
4164	THD time offset	11/15/10	Vassilis	1	Jim L	Forrest is reading the data from SDT, not TDAS. IF you could make the same plot as the top, Efield plot from the L1 or L2 data it would be great. For such high frequencies we have implemented phase and amplitude corrections, that are part of TDAS by the LASP team. Those would do a better job of calibrating the amplitude and phase. However, the timing is important to nail down between the different products. For example the Vs from 8kHz should provide roughly the same signal as the E's from 16kHz. So simply taking the V1-V2 and multiplying with 50m should produce the same signal roughly as E12, and you should thus be able to check the timing. I would not worry (yet) about the absolute amplitudes.	
	issue with FGS processing cross-check SST psir6 and psif data types for excess counts in psir6	9/30/10 4/8/10	Vassilis Jim McFadden	1	Jim L Jim L	Jim L to write email and review with Davin	

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4030a	Review Onboard Scripts for possible error.	5/17/10	Jim Lewis	1		can duplicate on flatsat. Jim Mcfadden and Davin to review	
					Davin, Robert Abiad	Jim L's email.	
					Ablad		
4030b	Correct Existing Data	5/17/10	Jim McFadden	ļ <u>.</u>	Jim L	4030a prerequsite	
40300	Correct Existing Data	5/1//10	Jilli McFaddell	'	JIIIL	4050a preregusite	
4030c	If scripts change - make changes to processing scripts	5/17/10	Jim Lewis	1	Jim L	4030a prerequsite	
4027b	Reprocessing GOES Data	4/5/10	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.	6/1/10	Jim L	1	. Jim L	thm load fit and thm load mom, add keyword. In progress -	
	If keyword is present, look for and apply eclipse delta_phi corrections as	0/1/10	OIIII E		OIIII E	Will review code Davin checked-in concerning tensor	
	appropriate."					quantities in thm_load_mom.	
2266	Timing of Spin Fit data	10/16/09	Jim McFadden	1-1-	Jim L		
	3 P						
	write a routine to check time tag monotonicity and repair tplot variable if		Jim L	1	Jim L	Create a routine to clean up tplot variables. Use in the load	
	necessary (with options for "replace with NaN" and "delete")					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.	
2149h	integrate time tag fixer-upper with TDAS load routines		Jim L	1	Jim L		
	and the day man appearant by the load redunde		S 2		02		
	He requested some extra datetime formats. A. Numerical month & time (ie	3/12/10	Pat from a	1	Jim L		4 hrs
	2007-03-23/00:00:00). this option isn't listed.		scientist (Martin Connors?)				
	He said there is an ANSI standard to separate date & time using a capital T	3/12/10	Pat from a	1	Jim L		
	and requested the option to put datetimes in this format. (ie '2007-03- 23T00:00:00')		scientist (Martin Connors?)				
	Our "save data as" menu doesn't remember the previous directory > that the	3/12/10	Pat from a		Jim L		1 day
	user saved to. It could and it should.	3/12/10	scientist (Martin	'	JIIIL		i day
2248	once in a while (maybe 10-20 occurrences per probe during the entire	9/10/09	Connors?) Jim L	2	Jim L		2 hrs
	mission), the FGM range doesn't change on all three axes at once:	3/10/03	Simile	-	JIIIL		21113
4135	Now that the L1 ESA/SST/MOM reprocessing is underway, these CDFs will			 			2-4 hrs
	soon contain the full ESA and SST configuration words, in addition to the solar wind flags, sweep modes, and so forth. With the full configuration data						
	available, if someone wants to use a property of these instrument						
	configurations that's not already present as a L1 variable, we don't need to reprocess L1 to add it we just write a little more code for TDAS, to extract						
	the new attribute from the configuration data that's already present.						
	Write some TDAS routines that take an apid and a configuration word, and	9/10/10	Jim L	2	Jim L		
	return a structure with all the relevant properties of that configuration. This is basically reimplementing some logic that's already in the L0->L1 processing						
l	code (written in C). If anyone ever needs other attributes of the instrument						
	configuration (for example: the angle maps corresponding to each configuration), we would update these routines to return the additional						
	information.						
4135b	In the load and/or calibration routines for ESA, SST, MOM: rather than using	9/10/10	Jim L	2	Jim L or tbd		
	the ESA solar wind flags and sweep mode from the L1 CDFs, use the ESA full configuration instead (which is present in all three L1 types, for						
l	convenience), and use the routines from 4135a to extract the solar wind						
	flags, sweep mode, and any other useful attributes. I think SST does not have any configuration flags similar to the ESA quantities (there's the						
l	attenuator status, but that's separate from the instrument configuration word),						
	but it needs them in the future, they should be handled the same way as ESA (extract from SST configuration word instead of adding L1 variables). I can						
	do this, but if the routines from part (a) are well-documented, any of us could						
1	probably do this part.						
					<u> </u>		
4022	Update L1 master cdfs to support SPDF hosting	3/25/10	David	3+	Jim L		
3093	Automate processing of eclipse sunpulse data from FGM team	2/22/10	Jim L	3+	Jim L		
4040	Spinfits - separate E&B timestamps?	4/15/10	Jim L	3	Jim L	SPDF has issue creating plots on the L1 data with their software	
. ,			ļ		ļ		
	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	4/23/10	Pat	3	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	
	GUI data model. I think thm_load_fft already does something like this. See					needed. Pat: Agreed. Short term, excluding the data type from	
l	task 4040					the GUI seems like an easy solution.	
2082a	Spin modeling during shadows BugZid=43		Vassilis	3	Hannes	Jim L to write routine. Hannes send info.	
2035	Split L1 ESA (using Thomas's routine) in master ESA data cdf		Vassilis	3	Jim L	On Hold - awaiting Jim McFadden release: Then send David Sub Task List; Calibration variables removed from L1 data	
						master CDF. (Side note: found and reported a bug in SKTEditor,	
l						which the Goddard team has agreed to fix) Waiting for feedback from Jim McFadden about how calibration data should	
	GOES 10-12 Test data: h. update labels (Howard's request - minor tweak)	ļ	Vassilis	3	Jim L	determine if to be reassigned	3-4 days
	STATE Web Page (s) bad timing sun pulse times (early January 2009)		Vassilis Vassilis	3	Jim L Jim L	review web pages Clarification needed	
l				1		S.aSaudii noodoo	
	L1 Data Processing History Info: SCM, EFI, STATE Refactor repeated CDF library code in CDF processing tools BugZid=50		Vassilis Vassilis	3	Jim L Jim L		
-5-5	repeated 55. IIS.a.y 6646 III 651 processing tools buye.iu-50		racollo		UIII E		
	Create a more efficient & productive prototype QA Instrument Command Line		Vassilis	3	Jim L	In progress. Several templates created, selecting the	
l	Script - first template (s) functional blocks then scripts for FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag, State, SST, ESA					appropriate command line routines to test.	
	, 11, mom, 701, E11, 111, 10N, Olliay, Glate, 301, E3A						
			1	:	<u> </u>		

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2047	Separate E and B timestamps for spin fits: a) make a revised V02 master		Vassilis	: 3	Jim L	Discuss with SPDF whether having one variable with multiple	,
2047	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 d) change the L1->L2 processing code d) change the V02 CDFs (keeping the V01 files around for a while to ease the transition) BugzID=45		Vassilis	3	JIII L	data sources is difficult for them	
2047a	FGS sample times and values, showing repeated timestamps. BugzID=113 (BugzID=67 must be done first)		Vassilis	3	Jim L		
2047b	Repeated timestamps and gaps in spin fit data BugZid=113 (#67 may fix this one as well).		Vassilis	3	Jim L		
2077	Non Monotonic timestamps. BugzID=72		Vassilis	3	Jim L		
2078	bau_sunpulse_met assumes x86 endiannes (BugzID=13)		Vassilis	3	Jim L		
2047	task 2047 in my name: "Seperate E and B timestamps for spin fits", which is ialso 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.	3/2/10	Jim L	4+	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.	6/11/10	John Bonnell	4	Jim L		
4023	Before EOM reprocess L1 cdf's due to master cdf changes for SPDF	3/25/10	David	4	Jim L	+	÷
2080	Phantom packets" cause non-monotonic distribution times. BugzID=25, low priority.		Vassilis	4	Jim L		
2081	Evaluate CDF compression algorithms BugZid=81		Vassilis	4	Jim L		
2083	Add "last processed" time to L1 (and L2?) CDFs BugZid=115		Vassilis	4	Jim L		
2084	transforming one data point from SM coordinates to GSM coordinates. ct=time_double('2008-02-16/04:50:00') dipole=[[0],[0],[1]] v=[1,2,3] istore_data,'dipole_sm',data={x:ct_y:dipole_v:v} cotrans,'dipole_sm','dipole_gsm',SM2GSM cotrans,'dipole_gsm','dipole_gse',/GSM2GSE get_data_'dipole_gse',data=dipole_gse xdipgse=dipole_gse.y[0] ydipgse=dipole_gse.y[1] zdipgse=dipole_gse.y[2] itilt=atan(xdipgse,zdipgse) When I check the data for 'dipole_gsm', the values are 0,0,0 'm not sure what they SHOULD be, but I know that their magnitude should equal 1. sqrt(x^2+y^2+z^2)=1		Christine	4	Jim L		
4097	cdf's with MD5 checksum	7/19/10	Jim L	4	Jim L	Jim L to send email with subtasks and estimates	
2057	Jim M SCM CAL File Processing Doc		Vassilis	1	Jim M	5/21/10 Olivier will review - pinged Olivier again on 7/30/10	
4004	Sort out if TDAS software can run off SPDF cdf's	3/5/10	David	1	Jim M	test tdas software with cdaweb data. 11/12/10 - issue with L1 data beingon a ftp site and not on http	
	EAC offsets	8/1/09	John Bonnell	1	Jim M	John sent Jim M code from Chris Cully showing how the offset should be calculated (8/12). 8-20-10 Jim M send John B for review a database of offsets. 9-2-10: John B to have feedback by 9-11.	
	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,	9/3/09	John Bonnell	1	Jim M	Jim M to create an option in thm_cal_eff.pro so that data in physical units can be gotten out before any spin dependent offsets are applied. 8-20-10 Jim M committed changes and will send John B an email to review. John B to have feedback by 10/22/10	
l	THEMIS: switching from E12 to E34 for EFS on THB in the L0->L1 processing?	10/19/10	John Bonnell	1	Jim M	Jim M committed and waiting for John's approval.	
2216	Fix the sign reversal of e34.	8/13/09	John Bonnell	1	Jim M	John sent Jim M a date/probe combination that Forrest Mozer used to establish the correct sign of e34 (8/12). Jim M will make the appropriate thm_spinfit corrections. John B to have feedback by 10-22-10.	
	What I'm imagining would be a crib that loads the RAW TM data, then the NO_EDC_OFFSET data, then the fully-calibrated data so one can see the various stages in the calibration process directly. If you have time in your schedule to start developing something like that, that would be a natural next step for this part of the effort, and it would mean one more step forward.		John Bonnell	1	Jim M	sent to John B and waiting for feedback; demonstration of task 2228	
2225	L2 EFI cdf (quality flags)	8/31/04	John Bonnell	1	Jim M	Quality flags and L2 cdf will be addresses when we have a clue about offsets, spinfits, etc	
			David				

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0000	'Thi	44/0/00	: the Maradalan		: C 10		,
2283	There is another aspect to this problem. Dead-time corrections are severe for ion ESA SW data and there are no dead-time corrections for onboard moments. Some algorithm will have to be developed that does this correction after the fact. Davin developed an algorithm like this for Wind 3DP. That algorithm may not work directly due to differences in energy sweeps, but something like it could be developed for THEMIS. Davin and I can provide some advice and direction. Similarly electron onboard moments in the SW may also need some corrections – this should also be worked out at the same time.	11/2/09	Jim Mcfadden	2	Jim M		
2175	:L2 File Definitions Document		Dovid	-	lim M		ļ
			David	3	Jim M		
2087	Administrator's Guide		Vassilis	3	Jim M		
2088	Themis Developers Guide		Vassilis	3	Jim M		
2224	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	3	Jim M		
2091	Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdfs entire mission		Vassilis	3	Jim M		
2092 2055	thm load mom changes - reconcile mods with Davin at an appropriate time. ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess		Vassilis Vassilis	3	Jim M Jim M	On Hold; awaiting Jim L to split L1 into master cdf	
1	ESA					3	
4003 4042	Document: ESA File and Calibation Processing Script to run every two weeks to runs IDL TDAS and checks if a file can be loaded from THEMIS SPDF file (s)	3/5/10 4/19/10	David Pat	3	Jim M Jim M		
2093 2094	AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: minor Overview plot change: mode bar seems thick		Vassilis Vassilis	4	Jim M Jim M	nothing we can do easily	
2095	Mosaic Processing - permanent script needed		Vassilis	4	Jim M		İ
2100	EFI calibration		John Bonnell	4	Jim M	Which is bottow? Assigned to 1.5. //	
	DC offset between 4sdo and 2sdo in boom plane Try to track down frequency scaling problem in DPWRSPC (dlimit setting?		John Bonnell John Bonnell	4	Jim M Jim M	Which is better? Assigned to J. B. (low priority). On Hold - low priority	<u> </u>
1	Compare to old plots?).		1	<u> </u>			
2100p	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	4	Jim M		
2069	Support Mirror Sites		Vassilis	0	Pat		
	Japan (ISAS)		Vassilis	0	Pat		
	Austria		Vassilis Vassilis	0	Pat Pat	(Dumi not always up to data for amage)	
20690	France Support gmag data remote sites.		Vassilis	0	Pat	(Rumi - not always up to date for gmags)	
	Augsburg (MACC's)		Vassilis	0	Pat		
	Alberta Greenland - I think the following stations in our archives are essentially		Vassilis Vassilis	0	Pat Pat	On #1 Is there any way for us to calibrate the DMI data -	
	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)					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.	
3034	U Alaska all working	12/7/09	Jim M	0	Pat		
4138	Install the new GEANT model when released. 4.9.4 is currently in beta.	9/14/10	Davin	: 1	Pat	awaiting new model 4.9.4, actual data coming by 11/19 from	1-2 hrs
	·				Pat	Rob Lillis. First pass of data received - in progress	1-21115
4152	verify the location of the sun-contaminated bins for each spacecraft and any change in location over time(they should change very slowly if at all). They would then re-activate the sun contamination masking. It was previously disabled because the masking was originally in the from place. Davin said that he wants to create the new configuration files that would be uploaded to the spacecraft.	10/8/10	Vassilis and Davin	1	Pat	Davin to handle S/C change. Pat is done.	
3055 4072	SST calibrations - Davin to Review code Put eclipse spin model correction code in SST as already has been done for	12/18/09 6/8/10	Davin Jim M	1	Pat Jim M	wait for SST calibrations	<u> </u>
4072	esa packet pgm	0/0/10	JIII IVI	, i	JIIII IVI	wait for Golf Galloration 15	
4068	Lynn Wilson possible enhancements	6/1/10	Lynn Wilson	1	Pat	Review Lynn's software and generate list of features	
4156	Calibration of different anodes - energy efficiency	10/18/10	Vassilis	1	Pat	Need to talk to Davin	
4143	Just a note that Haje will contact you when ready to start working on the Tsyganenko code for Solaris. I hope that will be within the next 3 months, in order to match the time of the next software release. Please assist Haje with access to Solaris machines or provide test information as necessary.	10/8/10	Vassilis	1.5	Pat	waiting for Haje - should we ping?	
4129	We would like to incorporate the Hermanus gmag data into the THEMIS database in some form of external ground station, like the Greenland chain. Can you implement this with the help of Jiang? I think Jiang will be writing code to read and validate the reading process anyway, for his own work, soon.	9/8/10	Vassilis	2	Pat	in progress - on hold	
2060	L2 cdf Quality Flags: for SST		Vassilis	2	Pat	<u> </u>	
4002	Document: SST File and Calibation Processing	3/5/10	David	2	Pat		
ı	Document. 3311 lie and Cambation Flocessing					a de la companya de	1
4119a	Reorganize sun contamination keywords. (Add 'manual' option to method sunpulse clean)	8/26/10	Vassilis	2	Pat		
	Reorganize sun contamination keywords. (Add 'manual' option to method_sunpulse_clean) Add 'automatic' option to method_sunpulse_clean which will sum across time	8/26/10 8/26/10	Vassilis Vassilis	2	Pat Pat	in progress - on hold	
4119b	Reorganize sun contamination keywords. (Add 'manual' option to method_sunpulse_clean)			ļ		in progress - on hold 4119a and b prereq's	1-2 hrs

4012	When Cindy & I tried to load tha_eff on 2007-03-23, it didn't load and said some calibration quantity couldn't be found. When I tried to load the same thing, I didn't have a problem. So the trick would be to find out what changed from my computer to Cindy's computer and to figure out how often our user's computers are going to have the same problem that Cindy's computer had.	3/22/10	Pat	2	Pat	Jim M: I have no trouble with EFF data either for linux or windows.	4-6 hrs
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.	7/29/09	Pat	2	Pat	set to most recent user action for all routines	2-4 hrs
2041 2285	thm load state out coord velocity calculations wrong 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.	11/4/09	Vassilis Christine	2	Pat Pat		
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	4/19/10	Pat	2	Pat		
2062	Alberta - At the moment the data files are from Dawson (daws), Churchill (fchu), Island Lake (isll) and Fort McMurray (mcmu). I will add Rabbit Lake and Taloyoak at some time but we have some issues with mag pointing at those 2 sites. If you recall, the agreement between lan and Vassilis was that this data wouldn't be copied to become part of a mirrored archive like the existing data we provide. Instead, each file would be obtained from this site each time it is requested (using curl or some such). This means we can use our own logs to monitor data usage. Themis Software to be able to retrieve from Alberta		Vassilis	3	Pat		
4120	Add title support to plotxy	8/27/10	Christine	3	Pat		
4121	Add multi-row/column span to plotxy	8/27/10	Christine	3	Pat		
2090	that streamlines the generation of gmag stackplots and a crib to show how to do this. (< than a day)		Vassilis	3	Jim M		2 hrs
3053	102. Tplot_gui — overwrite warning when importing data, even if variable gets renamed.	2/3/10	Pat	3	Pat		6 hrs
2115	tplot does not fail gracefully after illegal margin set. In this case: tplot_options, 'xmargin', [100, 100], tplot does not fail gracefully after illegal margin set. In this case: tplot_options, 'xmargin', [-1,-1] - tplot does not fail gracefully after illegal margin set. In this case: tplot_options, 'ymargin', [100,100]			3	Pat		
	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.	10/19/09	Pat	3	Pat		
	Plot Description Doc Button	3/22/10	David	3	Pat		
2176	Iran 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.	7/20/09	Aaron	3	Pat	I spoke to Pat about this yesterday and we both agreed that while we cannot be sure which quantities should be re-loaded and which shouldn't (some may have been used temporarily for calculations). However, we can store the users's original choice to overwrite the data or not. So while we may not be able to save on loading time we can still keep the user from having to click multiple messages and from having to remember what they chose originally. The latter is particularly important since they may receive errors or get corrupted data if they do not choose	16
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 minilanguage.	8/5/09	Pat	3	Pat		40
3086	add MACCS gmag data from 2007 to our data archive. We already have MACCS data for some years and a process that automatically downloads it/converts to CDF. So the task would involve finding missing files from 2007 and feeding them into our pre-existing processing framework. It should be pretty straightforward, but probably non-trivial because of learning curve/unexpected details.	2/19/10	James Weygand		Pat		
3091	Add a configuration setting "force_download", which if enabled, will download data even if the remote file is older than the local file. This comes up if you're switching back and forth between using QA data and production data; once you've downloaded QA data, it's hard to download (usually older) production data without manually removing any QA files. This should apply to all data sources – THEMIS, GOES, WIND, etc.	2/22/10	Vassilis	3	Pat		
3065	68. GUI z-axis options — when Fixed Min/Max selected, value in spinners does not reflect current range as it does for X and Y axes. Displayed range when spinners desensitized is inaccurate.	2/10/10	Aaron	4	Pat	chech draw object	
4005	The TDAS Software will be enhanced to incorporate data from the STEREO mission.	3/8/10	David	4	Pat		8 hrs
4006	add the following ancillary ground-based observations: MAGDAS Network, Auroral Electrojets (AE) and Ground Radars (SuperDarn, AMISR and Sondrestorm)	3/8/10	David	4	Pat		4 hrs
3007	EPO-GMAG msgs: modify the script and only issue this message if > 2 days	12/8/09	David	4	Pat		
2279	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?	10/23/09	Tim	4	Pat	see 2277	

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2135 Idioth 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 transform velocities just as easily using time, obtains on the command line, as they can using the coord keyword. 2124 I loaded a pit which had the line cotor as white. Because the legend plots in the same cotor 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 while then draw the text in black. 2035 Problem with edifdsibins is being caused by IDL's mouse system variable not being updated correctly on Macs. The citime procedure, used to interactively select at time from a tplot window, relies on this variable to determine when a selection has been made in the lipid window. If the variable is never updated then citine gets ought in an infinite loop. Its unclear whether his is specific some point to maximize compatibility with Macs. In the meanitime the alternate method of calling gettime that I copied you on yesterday should provide a temporary way around this bug. 2106 Add the ability to right-click on a variable in the widget-free and display a port of the temporary way around this bug. 2210 If ound a small bug in the z-axis panel in the gul. If I change the z-axis annotation size of a layout with 2-panels each with one spectrogram. When apply this barrier, increase applied to both panels, even if sel-alise off. 2220 If ound a small bug in the z-axis panel in the gul. If I change the z-axis annotation size of a layout with 2-panels each with one spectrogram. When apply this change, tiget suplied to both panels, even if sel-alise off. 2230 If our dains a special common block, there is no easy way for ent users to perform the special common block, there is no easy way for ent users to perform the special common block, there is no easy way for ent users to perform the special common block, there is no easy way for ent users to perform the special common block	
correctly transforms velocities. Users can incorrectly transform velocities just as easily using thm. cotras on the command line, as they can using the coord keyword. 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 2063 Problem with editAdbins is being caused by IDL's mouse system variable not being updated correctly on Macs. The crime procedure, used to interactively select at time from a tylot window, relies on this variable to determine when a selection has been made in the tylot window. If the variable is never updated then citine 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 Lopels you on yesterday should provide a temporary way around this bug. 2106 Add the ability to right-click on a variable in the widget-tree and display a populy with basic information about the quantity such as dimensions, range, or other meta data as well as the ability to rename variable 2220 I found a small bug in the z-axis panel in the gui. If I change the z-axis amoulation size of a layout with Z-panels each with one spectrogram, when I apply this change, if gets applied to both panels, even if set-all is off. 3063 40. CL tiplot options — setposition test plots all fook the same 4079 One of Michael Hartinger (a grad student in atmos) is having trouble with the manual particular testine the incommendation in the particular testine to the particular testine to the particular testine testine. I think we should put a feature requested on the list of untermacibility observable port in temporal testine the normal particular testine testine. I think we should put a feature requested on the list of untermac	
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