

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide
To be Assigned or Discussed													
4386	It appears that some of the data in the GUI overview plot for probe D (on the default day) has been shifted up one panel. Each panel starting below the keogram appears to contain the data intended for the panel below it, judging by the labels and panel sizes.	9/29/2011	Aaron	1	Aaron	Is this using the bleeding edge or v6.0? If the bleeding edge please check v6.0.							
4387	Radius values in TIPSOD vs TDAS	9/30/2011	David			For discussion							
4388	I was having some trouble getting the mouse click feature to work with the various tplot functions in TDAS after upgrading to a new system running the Lion OS. After poking around a bit it looks like there are a couple X11 settings that need to be changed to allow clicking of tplot windows (such as when using the tlimit command). In X11 preferences I enabled the following: Input: Emulate three button mouse Windows: Click-through Inactive Windows After enabling those I was able to click on tplot windows again. Just passing along the info in case there are others who may experience this issue.	9/30/2011	Justin Lee - UCLA	?	?	Pat: This looks different than the instructions that we have in the quick reference guide. I think that we may need a new set of instructions for newer macs. Jim L: Maybe we should upgrade my Macbook from OS X release "Leopard" to "Lion". (There's an intermediate "Snow Leopard" release between those two...maybe also worth testing?) It might even be possible to install all three OS versions, so we can boot into whichever one we need for testing or troubleshooting.							
4389	One is that makepng doesn't appear to work for OSX Lion. Two is that tlimit doesn't work right in OSX Lion. He said that he wasn't having any of these problems in Snow Leopard, and he's going to roll back to the previous OS. But we should probably still try to resolve these issues for future users.	9/30/2011	Justin Lee - UCLA	?	?								
4390	etting a too many points error from the wavelet routine that he doesn't get when he uses the bleeding edge from 2011-01-07. I looked at the wavelet svn log it does appear that there was a burst of commits to the wavelet.pro routine in February. It may be that this fix doesn't work in this case. This last one is unrelated to the OS version.	9/30/2011	Justin Lee - UCLA	?	?								
General													
4357	Laura is looking into the processing of EPO Spectra jpgs. As this has been a problem for more than a year it is probably not a high priority.	9/1/2010	David	n/a	Laura Petacolas	FYI - thinking about using EEONS instead of EPO Spectra							
Hannes													
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List updated 7/11/11							
4018a	New Calibration FGM parameters and spin axis offsets	5/10/2010	Hannes	1	Hannes	8/22/11 Hannes: start new Artemis offsets this week (currently covered through mid June). Themis covered through Mid August and will not be updated until the end of the year 2011. 8/29/11: Sent to Brandswaug							
4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes	After 4018a for Artemis is complete will work on spin phase and axis offsets							
2074c	quality flag for FGM data		Vassilis	3	Hannes	on hold							
Aaron													

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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	Aaron	Aaron: These are the two copies of the spin model code that were causing the EFI calibrations to crash: \\themis\spacecraft\particles\spin\spinmodel_get_ptr.pro \\themis\spin\spinmodel_get_ptr.pro Jim L: I'm having trouble pinning down when the duplicate files were removed, or if they were ever in the repository under that location. Since it was under themis/particles, I'm assuming it had something to do with Jim McT's work to replace Jim McF's deprecated spinmodel routines.							
3031	GUI Overview plots sometimes have diamond shaped artifacts in the sample rate bar. Should fix.	1/5/2010	Vassilis	2	Aaron	able to reproduce							
4275	There was a suggestion that we use dprint more consistently in our debugging output so that it is possible to disable all of the text that the GUI and other TDAS software prints to the	6/30/2011	Pat	2	Aaron	to take a look at a possible standard and then review with all; User's Guide Update?							
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.			2	Aaron	talk to Jim M							
2029	From Hannes		Hannes	3	Aaron	discuss at s/w meeting							
2029a	Provided is the most common plot used by scientists that look at magnetic field data. Four panels Bx By Bz Bt and the position X Y Z as variables. Often the radial distance R is another variable. It would be great if someone enters e.g. tplot,'tha_fgs_gsm' such a useful default plot would appear. I am currently not able to produce such a plot using tplot. Another useful plot would be instead of one trace per panel, 5 traces per panel. One for each spacecraft and 5 sets of positions as variables at the bottom. For example: tplot,'th?_fgs_gsm' could produce such a plot. Also some standard plots that combine ground and spacecraft data could be useful. Notes from Vassilis: define keyword /positions default 'none', allow GSM X Y Z, R Lat Long,.....		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.		Hannes	3	Aaron								

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Ben													
4001	Document: Administrators Guide	3/1/2011	David	1	Ben								
4001b	update admin guide for input and output locations L1->L2					review doc from jim M							
4368	Master Probe Timing Diagram	9/15/2011	Jim L	1	Ben	in progress - final version of tool to be completed shortly; then analysis ; document a deliverable as well							
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		Jim L	1	Ben	In progress. TDAS v6 has been tested. Several templates created, selecting the appropriate command line routines to test.							
Jim L													
4385	strange patterns in SST data	9/26/2011	Xuzhi	0	Jim L	Pat: You mentioned a modification to sanitize the data. Do we want to put it in? If yes, do we want it to be L0->L1 or L1->L2? Jim L: It's probably a bit easier to handle at the L0->L1 level, since I'm already tracking the ETC config changes. Probably a discussion item for Monday. ..							
4369	THEMIS Leap Second Discussion	9/15/2011	Vassilis - Jim L	0	Jim L	Jim L to write up doc and get SL:P write-up from Pat. Issues Probe Files, Spin Model, ESA Pkt, SPDF, VMO							
4310	state files: including P1, P2 SSE and SEL coordinates	8/8/2011	Vassilis	0	Jim L								
4310g	take Jasper's code and incorporate into thm_cotrans	8/8/2011	Vassilis	0	Jim L								
4310b	Change the V00 and V02 ascii ephemeris to state CDF processing to include the new SSE and SEL ephemeris variables	8/8/2011	Vassilis	0	Jim L								
4310c	Change thm_load_state to allow loading the new variables	8/8/2011	Vassilis	0	Jim L								
4310d	Test that revised CDFs have correct data	8/8/2011	Vassilis	0	Jim L	See Sabine for verification of code - email sent to ARTEMIS team ; Sabine will take a look; Jasper gave his okay							
4310e	Deploy code changes and new master CDFs for use in the automated processing	8/8/2011	Vassilis	0	Jim L	on hold until confirmation 4310d							
4310f	Reprocess state CDFs for entire mission	8/8/2011	Vassilis	0	Jim L								
4326a	The ARTEMIS science team is keen to have a look at the most recent lunar data, with the eclipse spin model corrections turned on. That processing isn't fully automated yet, so it'll take me a couple of hours to set up and run Ferdinand's eclipse processing code. I told Vassilis I'd try to have at least the THB and THC products up to date by next Wednesday's telecon.	8/18/2011	Vassilis	0	Jim L	Processed latest set of eclipses and sent an email							
4326b	Then for Particles and Spin Fits	8/18/2011	Vassilis	0	Jim L	in progress							
Jim M													
4381	Also there's no FGM L2 data for those days, (otherwise the overplots shouldn't be trying to load L1 data).	9/23/2011	Jim M	0	Jim M	missing FGH data - September 2011 - reprocess overplots, email history line for emmanuel; notify Tami							
4334c	Ambrosia Migration - testing and Migration	8/22/2011	David	0	Jim M								

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4334d 2283b	Danaid Migration - testing and Migration 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. **Send old code to Pat **	8/22/2011 11/2/2009	David Jim Mcfadden	0 1	Jim M Jim M	Jim McFadden showed me what he had in mind for improving the corrections for ground-processed moments. This involves calculating the dead-time correction based on a higher resolution energy grid, with 4 different points per output energy channel. In progress: Jim M 8/26/11: Thanks for looking at this. It also seems the the pressure tensor has some interesting spikes due to the dead-time correction, while the scalar quantities ssme to be more stable. 9/23/11: Will ping Jim Mcfadden							
4365	reverse-engineer the process of updating the onboard tables that define the ESA and SST angle/energy modes.	9/8/2011	Vassilis	0	Jim M	steps: Create the Table Image, Create the CDI Commands, Create the IDPU Commands, Create the raw packets that go to the MOC for uplink ** in progress **							
4365a	Sanity check of current configuration: Jim and Davin will provide a range of ETC memory addresses to be validated. Ops team will request a memory dump of those locations, probably on one of the inner probes, via apid 407 memory dump packets. JWL (or maybe Ben S) will write a tool to stitch the memory dump packets back together into a memory image, which Jim and Davin can inspect to make sure we are working with the correct memory range. Hopefully this will be a targetted test -- a small range of addresses, rather than a complete memory dump (which would take extra care and error checking to interpret). If it's a small enough dump, we can possibly avoid having to write a tool and just look at the raw hex from a few 407 packets.	9/8/2011	Vassilis	0	Jim M	On hold							
4365b	ETC table upload utility: Davin may have something in his backups. If not, JWL will resurrect a "cmd2raw" utility we used during I&T to convert ASCII files of IDPU commands to a properly checksummed RAW command file, which the ops team can then upload to the probes. Jim McFadden and/or Davin will have to provide the list of IDPU commands.	9/8/2011	Vassilis	0	Jim M	On hold							
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.	10/8/2010	Vassilis and Davin	0	Jim M	Persons that can provide information are: Davin, Deron Pease/McDonald, Michael Luldam and Robert Abiad.							
4152a	change the SST tables to mask view directions that are affected by the sun. We need to do this for the reduced distributions only. If it can be done for the moments too it would be great. WE need to find the masking tables that were input before in 2007 and rescinded sometime in 2008 - but the actual bins that require masking are different than before.	10/20/2011	Vassilis	0	Jim M								
4152b	change the ESA tables such that the minimum magnetospheric electron energy becomes lower (about 3eV, or lower). McFadden can specify the lower energy	10/20/2011	Vassilis	0	Jim M								

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4152c	change the ESA tables such that electrons and ions can be changed separately into magnetospheric and solar wind modes.	10/20/2011	Vassilis	0	Jim M								
Lydia													
4334d	gaia Migration - testing and Migration	8/22/2011	David	0	Pat - Lydia	in progress							
4375	Calgary GMAG Issue	9/20/2011	Lydia	1	Lydia - Harald	It sounds like Harald asked Calgary about the problem last week but hasn't heard back & will ask them again. The problem is likely at their end as there have been no changes at our end and when I attempt to connect to their server it times out.							
4371	Athabasca (AUTUMN) (Sites are LARG, LETH, ROTH, REDR) Database: No database exists for these sites yet. Processing scripts currently attempt to write to non-existent tables. Tables need to be created. Website: No status table exists. A new status table needs to be created (this can probably copy most of the code from one of the existing php scripts) and a link added to the status webpage.	9/20/2011	Lydia	1	Lydia	awaiting Emmanuel to put on the official site							
4372	GMAG ASCII status: http://themis.ssl.berkeley.edu/data_processing_check/ground_d_ata_processing/gmag_ascii_table.php (I'm not sure if this has a link from the main webpage) Database: a. Add Athabasca sites to the database gmag_ascii_files. b. Add a table epo_PGEO_asciifiles to gmag_ascii_files database. Website: a. Add Athabasca sites (LARG, LETH, ROTH, REDR) b. This may be more tricky, depending on what exactly the script to generate the table says. PGEO is already on the list, but needs to change from looking at the table gbo_PGEO_asciifiles to looking at the table epo_PGEO_asciifiles. c. Add GBO sites SNAP and KUUI d. Add MACCS sites CDRT, CRVR, GJOA, IGLO, PANG, RBAY e. Add Alberta sites SNKQ, ATHA f. Add Alaska sites ARCT, BETT, CIGO, EAGL, HLMS, HOMR, KAKO, POKR, TRAP	9/20/2011	Lydia	1	Lydia	awaiting Emmanuel to put on the official site							
4373	GMAG CDF status: http://themis.ssl.berkeley.edu/data_processing_check/ground_d_ata_processing/gmag_cdf_table.php Repeat 4372a - f.	9/20/2011	Lydia	1	Lydia	awaiting Emmanuel to put on the official site							

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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. Augsburg investigating - ping sent on 9/23	2/19/2010	James Weygand	2	Lydia	Email requesting other 2007 sites to be put on ftp site. From Erik at Augsburg: We are indeed moving information from an older computer to a newer one, with both currently in service and with the general designator space.augsburg.edu now pointing at the newer computer leaving the old 'space' computer as yspace, as you noticed. We are indeed moving information from an older computer to a newer one, with both currently in service and with the general designator space.augsburg.edu now pointing at the newer computer leaving the old 'space' computer as yspace, as you noticed.							
2175	L2 File Definitions Document	3/1/2011	David	2	Lydia	Lydia completed Draft - out for review: Jim M, Jim L, Pat, Ben, Aaron							
2062	Alberta - At the moment the data files are from Dawson (daws), Churchill (fchu), Island Lake (isl) and Fort McMurray (mcmu). I will add Rabbit Lake and Taloyoak at some time but we have some issues with mag pointing at those 2 sites. If you recall, the agreement between Ian and Vassilis was that this data wouldn't be copied to become part of a mirrored archive like the existing data we provide. Instead, each file would be obtained from this site each time it is requested (using curl or some such). This means we can use our own logs to monitor data usage. Themis Software to be able to retrieve from Alberta		Vassilis	2	Lydia	awaiting reply to sent email							
4006	add the following ancillary ground-based observations: MAGDAS Network, Auroral Electrojets (AE) and Ground Radars (SuperDarn, AMISR and Sondrestorm)	3/8/2010	David	2	Lydia								
4006a	Verify we have Kyoto DST - latest files	3/8/2010	David	2	Lydia	they are only up to 2003 in final; Andreas Keiling reviewing							
4006b	SuperDarn - when available make sure it works with TDAS	3/8/2010	David	2	Lydia	sent analysis to ERG folks							
4006c	AE (Auroral Electrojets) - make sure we have the latest if we have	3/8/2010	David	2	Lydia	Andreas Keiling reviewing							
2088	Themis Developers Guidelines		David	3	Lydia	in progress							
Pat													
4334d	gaia Migration - testing and Migration	8/22/2011	David	0	Pat - Lydia	in progress - crons to run over weekend; review some new found scripts							
4138f	Run simulation for range of initial positions around the full sphere.	9/17/2010	Davin	1	Pat	Rob Lillis sanitizing files.; ping Rob							
4267c	Write code to remove proton and electron contamination from the electron and proton distributions using data and efficiencies from the F & O channels.	6/27/2011	Pat	1	Pat	in progress - testing with real data							
4355	IDL-VM checkout	8/30/2011	Yoshimasa - lugonet	1	Pat	responded to lugonet for more detail info.							