

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E	Crib	QA Suite or Script	UG	Qref	Adm Guide	Dev Guide
To be Assigned or Discussed														
4353	ARTEMIS Full Data: Looking at THB data for Aug 26 and 27, I'm not seeing any 32x88 PEEF data (apid 457). All I'm seeing is 15x88, for the following time intervals: Aug 26: 05:44:27 to 09:03:06 Aug 27: 11:54:13 to 15:13:08 It's not a processing issue; this is the only configuration I'm seeing in the apid 457 packets for these dates. If you were expecting something else, that would be an issue for the ops team.	8/29/2011	Vassilis	?	Jim L - > Ops Team	Vassilis to report to Ops Team								
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								
4034b	Ferdinand sent was an attempt on his part to automate the shadow processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it up with him once you have gone through it.	4/14/2010	Vassilis	1	Hannes	Waiting for feedback from Ferdinand about state of inner probe eclipse models, long & short eclipse models								
2082a	Spin modeling during shadows BugZid=43		Vassilis	2	Hannes	Jim L to write routine. Hannes send info.								
Aaron														
QA038c	6.f) When the 5 panels have been made of the data, the type of data in each panel is labeled but the spacecraft is not included in the label. You only know which spacecraft is represented if you hover your mouse over the panel. I think the panel should have the sc label, especially for printing purposes.	1/21/2011	Christine	1	Aaron	come up with how to fix options with level of effort - one or two load to edit	2 hrs							
QA038d	REALLY don't like how when you select the dependent variable, the window slides over to center it. I want it to stay where it was unless I slide the window myself. Otherwise I'm constantly sliding it back to the left in order to see which variable I want to select.	1/21/2011	Christine	1	Aaron	fix only for windows - if it can be fixed	4 hrs							
4332	Slices Mods Keyword forces a load, SST warning to interpolate	8/22/2011	Vassilis	1	Aaron									
4327	Andre came by again after re-working his plots and said that they looked good and reflected what was expected. There does seem to be a plotting option (from the old software) to plot the exact energy limits that was temporarily disabled and part of it never re-instated. It would be a 2-3 hour task to implement it. He also mentioned that he will continue tinkering with the software and will let me know what he finds.	8/18/2011	Andrea	1	Aaron		2-3 hrs							
Ben														
4334	Python Migration - testing and Migration	8/22/2011	David	0	Ben	in progress								
4309	Python migration - series of tools and scripts	8/5/2011	Jim L	1	Ben	awaiting VM python2 to be ready								
4214	THEMIS Pipeline proof of concept regression tests				Ben									
4214a	VC->L0	3/23/2011	Jim L	1	Ben	awaiting VM python2 to be ready								

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4214b	L0->L1	3/23/2011	Jim L	1	Ben	awaiting VM python2 to be ready								
4214c	L1>L2	3/23/2011	Jim L	2	Ben									
4214d	empermeris->state v00	3/23/2011	Jim L	1	Ben									
4001	Document: Administrators Guide	3/1/2011	David	1	Ben									
4001a	Review Tim Quinn's scripts and update admin guide for input and output locations. (VC->L0->L1)	8/26/2011	Jim L	1	Ben	in progress								
4001b	update admin guide for input and output locations L1->L2					in progress								
Cindy														
4318	Load Data. I received an "Invalid Start and/or stop time" message when the time format was correct. Clicking in the start time text field fixed it. This happened several times, but I can't reproduce it consistently.	8/15/2011	Lydia	1	Cindy	cannot recreate								
4319	History Window. I think this has been reported previously - When you open the history window it appears on top of the main GUI window, but then immediately moves behind it. If you have the history window open on top of the main gui window then as soon as the mouse enters the draw area of the main GUI window the history window is sent behind it again. To save or close the history window you need to minimise or move the main gui window out of the way.	8/15/2011	Lydia	1	Cindy									
4325	Page Options: Landscape. If you change a page from portrait to landscape, and then close that page then the remaining page/new page will display as landscape even though the Page Options shows portrait selected.	8/17/2011	Lydia	1	Cindy									
Jim L														
4334	Python Migration - testing and Migration	8/22/2011	David	0	Jim L	in progress								
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 on 9/1/11								
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									
4326	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	in progress - Ferdinands code not working on all eclipses; Spin model for Artemis probes expended fuel. Awaiting info from FGM Team								

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4331	I noticed a couple of warnings overnight from the automated definitive ephemeris processing. It looks like a couple of files from 2008 got updated: THEMIS_B_EPHDEF60_08135_000100_08141_210000 THEMIS_B_EPHDEF60_08141_210100_08148_140000 THEMIS_B_EPHDEF60_11203_020100_11229_110000 was also picked up (as expected), and processed normally as far as I can tell. I haven't tracked down the exact problem with the 2008 files that were also processed last night. It's possible that my script just isn't working properly or the case when an ephemeris file is updated, but the preceding and following files are not. But it appears, from the processing logs, that the data in those two files may have differed from what was there previously. Otherwise, it should have detected that the updated products were identical to the published products, and skipped the update. Any idea why these files might have been updated, and what (if anything) was different about the updated version?	8/19/2011	Jim L	1	Jim L	Dan Cosgrove will update ascii files and then you will do a manuel reprocessing as needed								
Jim M														
2283b	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 **	11/2/2009	Jim Mcfadden	1	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. I'll check this out. eta 9/6 then Jim Mc Fadden approval								
4233	Angular Correction for particle data - use Jim McFadden's code if available	1/9/2011	Vassilis	2	Jim M									
4218	thm_part_moments angular restriction	4/4/2011	Vassilis	2	Jim M									
4302	"bad" themis thg l2 files - mag files	8/1/2011	Tami	2	Jim M	multiple versions of idl_make_cdf Jim M to look at								
Lydia														
4346	I got a question from a grad student(Shan shan) that made me think of a missing feature. The routine tinterpol_mxn should have a 'repeat/nearest neighbor' option when interpolating. That is, instead of picking a value between the two adjacent points when interpolating, it should repeat the value of the nearest point. This came up when Shan Shan was trying to interpolate a bit-packed variable(the ROI data), if you use normal interpolation on this type of variable, the result will be garbage. It looks like this routine gets a lot of usage so I think it would be a fairly visible improvement.	8/23/2011	Pat	1	Lydia	in progress								

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4349	I was loading some FFT data in the GUI and just wanted to check that the behaviour was correct. If I attempt to load fff_32_adc it brings up a message: THM_UI_LOADED_DATA::ADDDATA--> Problem loading: tha_fff_32. GUI data model does not currently support data with dimensions greater than 2. (and also messages for tha_fff_32 and tha_fw_32) But it does show fff/p/w_adc, src, hed as having loaded. I don't actually know what any of these quantities are so I'm not sure if this is what it should be doing. (This doesn't seem to happen in v.6)	8/26/2011	Lydia	1	Lydia	tplot and gui								
4356a	Astraea GMAG script migration plan I noticed that some of the scripts that are running are not on the SVN. I'd like to move the scripts over to SVN and make sure everything is running correctly before the migration. Existing problems, such as with the EPO processing warnings, will just make the migration more difficult to test.	8/30/2011	Lydia	1	Lydia	in progress								
3086	add MACCS gmag data from 2007 to our data archive. We already have MACCS data for some years and a process that automatically downloads it/converts to CDF. So the task would involve finding missing files from 2007 and feeding them into our pre-existing processing framework. It should be pretty straightforward, but probably non-trivial because of learning curve/unexpected details.	2/19/2010	James Weygand	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	25% time - in progress								
2062	Alberta - At the moment the data files are from Dawson (daws), Churchill (fchu), Island Lake (isll) and Fort McMurray (mcmu). I will add Rabbit Lake and Taloyoak at some time but we have some issues with mag pointing at those 2 sites. If you recall, the agreement between Ian and Vassilis was that this data wouldn't be copied to become part of a mirrored archive like the existing data we provide. Instead, each file would be obtained from this site each time it is requested (using curl or some such). This means we can use our own logs to monitor data usage. Themis Software to be able to retrieve from Alberta		Vassilis	2	Lydia	ping David Milling								
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	discuss at software meeting of 9/6								
Pat														
4138f	Run simulation for range of initial positions around the full sphere.	9/17/2010	Davin	1	Pat	Software to be purchased and build the geometry by hand. (working with Rob Lewis) in progress; another two weeks								

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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	1	Pat	Pat has enough info to generate tables to send to the S/C, Davin to ask Peter Harvey for more info. Davin will talk to Peter next week. 7/26/11 David reminded Davin;8/22/11 Vassilis says another week								
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 - updating code to new method								
4355	IDL-VM checkout	8/30/2011	Yoshimasa - lugonet	1	Pat									
4306	Overview web page navigation	8/1/2011	Vassilis	1	Pat	Emmanuel not able to do								
4068	Lynn Wilson possible enhancements	6/1/2010	Lynn Wilson	1	Pat	Review Lynn's software and generate list of features								
4287	Switching SST Load routines to thm_sst_load2 for SST calibrated data	7/15/2011	Pat	1	Pat									