

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													
4439	Astrea Testing and Migration	11/22/2011	David	0	Pat								
Oldies for Discussion - Du Jour													
808	IDL Format Code -currently have no way to insert a different font in the middle of a string (e.g. adding a symbol to a string in NewTimesRoman). Possibly enable formatting like we did for the z axis labels		Oldie				1 day						
810	Replace the Set All Panel checkbox, with an 'Apply All' button at the bottom of the window. More intuitive. Need to check all panels for consistency		Oldie				4 hrs						
811	Add capability for user to elect not to use all features, maybe an 'Advanced' check box. This would provide the power to the user when needed, but defaults to a simpler, faster way to plot. less		Oldie										
923	Scrolling issue with rubberbanding		Jim M			discussion - 1 day to investigate, need original notes							
928	Ticks/Margin Spinners When setting the Ticks and Margin spinners to decimal values, it appears the code truncates the value entered (i.e. 5.99 becomes 5). But the spinner should be updated upon Apply to update to the truncated value. Suggest low priorit		Bryan										
933	Web forms allow users to go to the next text input box with a tab. Can we do that on our widgets? E.g., the GUI_TPLOT Verify Data would work well that way.		Michael			Phase III							
943	Getspec window is slightly larger than my 1024x768 screen. Minor issue, probably a Phase 2 task. The vertical size of the Loaded Data pane in the Data Processing window is not consistent across platforms. On my linux box, it's only about half the height		Bryan				1 day						
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	new Arthemis offsets sent to Karl-Heinz on 11/21/11; reprocessing after AGU for the STATE							
4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes								
Aaron													
4429	add support for new pos/vel and spin model variables to thm_load_state, both for command-line and GUI	11/8/2011	Jim L	1	Aaron	in progress							
4429a	Check for the presence of slp data for coordinate transforms and warn or prompt the user if it is not present.	11/8/2011	Jim L	1	Aaron		6 hrs						
4429b	Check the time range when verifying presence of support data and prompt the user if it is insufficient.	11/8/2011	Jim L	1	Aaron		4 hrs						
4429c	Ensure that added features are replay correctly for Themis save files.	11/8/2011	Jim L	1	Aaron		4 hrs						
4425a	Removing Duplicate procedures	11/3/2011	Pat	1	Aaron	Back out duplicate files and send zip file to Jim Lewis before deleting. Jim M will handle non T-D efi.							
2063	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	1	Aaron	verify note in quick reference and users guide and then task will be closed							
Ben													

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4403	clean up SST data from 4385 (Jim L)	10/17/2011	Jim L	1	Ben								
4403a	implement a tool to clean up particle distribution CDFs as described below	10/17/2011	Jim L	1	Ben								
4403b	integration with process_lzp_dir (L0->L1) pipeline	10/17/2011	Jim L	1	Ben	awaiting 4403a and some cleanup from Jim L							
4403d	run a few simple tests of the data analysis routines. create some tplot variables which have been manipulated to contain repeated or out-of-order time tags, import them into the GUI, and run them through the various analysis routines to see if anything breaks.												
4403c	reprocess entire mission to clean up L1 ESA and SST product	10/17/2011	Jim L	1	Ben	wait until after AGU (12/11)							
4437	Move Ephemeris Processing to TMTTOOLS.	11/17/2011	Jim L	1	Ben								
2149g	write a routine to check time tag monotonicity and repair tplot variable if necessary ("replace with NaN" and "delete") - <b>Specifically checkout the esa pkt issue from Shanshan. Check other programs for similar code.</b>		Jim L	2	Ben	Create a routine to clean up tplot variables. Use in the load routines were susceptible. 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. <b>(repair monotonicity of time tags) has been discussed with Jim and the work will start asap, followed by the repair routine's integration with TDAS (Task 2149h).</b>							
2149h	integrate time tag fixer-upper with TDAS analysis routines		Jim L	2	Ben								
<b>Jim L</b>													
4369	THEMIS Leap Second Discussion	9/15/2011	Vassilis - Jim L	0	Jim L	draft document published. <b>Awaiting feedback from Harald and Bryce.</b>							
4326b	Then for Particles and Spin Fits	8/18/2011	Vassilis	0	Jim L	<b>in progress - verify tensor quantities are manipulated properly</b>							
4034a2	thm_parts_moments update (spin moments mods)	11/22/2010	Vassilis	1	Jim L	initial simple way, final fix is to fix esa and sst 3D data structures							
<b>Jim M</b>													
4419	Reprocess overview plots with automated sun contamination removal?	10/26/2011	Pat	0	Jim M	<b>open failed - trying on virtual machine (NFS Network File System error)</b>							
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 <b>Have code for reading maps into memory, working on outputting IDPU commands.</b>							
<b>Lydia</b>													
4438	I was looking creating new maps of the gmag locations for the website and found that ATHA and REDR mapped to the same location. REDR (from Athabasca University/AUTUMN) has incorrect latitude and longitude recorded in it's CDF and in the excel spreadsheet of gmag locations.	11/21/2011	Lydia	1	Lydia								
4438a	The mastercdf needs to be fixed.	11/21/2011	Lydia	1	Lydia								
4438b	reprocess existing CDFs from REDR so that they show the correct longitude and latitude. ATHA and REDR are actually quite close so the error is small, also I'm not sure whether many people actually use the longitude and latitude from the CDFs. If not, it may not be worthwhile reprocessing.	11/21/2011	Lydia	1	Lydia								
4438c	The spreadsheet needs to be updated, and so does the txt file GMAG-station-code-19700101.txt. (I'll do this when I add the new stations)	11/21/2011	Lydia	1	Lydia								

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4409	AE Stations: I am interested in including the "standard AE ground stations" i.e. the ones that go into the computation of the AE index - there are 12 - into the THEMIS pipeline. This is because we can then include them into the computation of our own pseudoAE. They include: FCC: Fort Churchill, LRV: Leirvørgur, a couple in Russia and one in Scandinavia etc. They should be available somehow. The ones in Russia have been made available through APL, and THEMIS has contributed to their refurbishment. I think we have established communication with APL's Kazuo Takahashi and he said a couple of years ago that routine delivery of the Russian stations was impending. So by now they should be ready...I think he should be a good source of information about the other stations as well, if you cannot find them on the web by searching or at WDC Kyoto.	10/19/2011	Vassilis	2+	Lydia	Lydia: Do we want to be mirroring the data for the sites and generating CDFs as we do for the other external magnetometer sites? If so, we would need to determine where the data could be retrieved from, obtain permission to mirror it, and write download and conversion to CDF scripts. This would be a separate task for each of the data suppliers (unless there is some existing site that has the data from multiple sources). The 12 stations that are used for the calculation of the AE indices seem to be (according to Kyoto WDC): listed in tasks 4409a-4409m.							
4409a	Abisko (ABK) (Sweden)	10/19/2011	Vassilis	2+	Lydia	Permission granted to access data through INTERMAGNET. Awaiting a response from Gerhard Schwarz as to the PI, Affiliation, Acknowledgement, Rules of Use information to include in CDF and on data policy website. (Email sent 14th Nov) In process of writing script to download data. In process of writing script to process data to CDF.							
4409f	Barrow (BRW) (USGS, US)	10/19/2011	Vassilis	2+	Lydia	Permission to access data granted. Awaiting a response to the followup email/questions sent 14th Nov.							
4409h	Yellowknife (YKC) (CANMOS/Geological Survey of Canada)	10/19/2011	Vassilis	2+	Lydia	Permission granted to access data through INTERMAGNET. Awaiting a response regarding PI, Affiliation, Acknowledgement etc. Email sent 16th Nov. FCC, YKC can be downloaded and processed with the same scripts as ABK. These scripts are in progress.							
4409k	Narsarsuaq (NAQ) (DTU, Denmark)	10/19/2011	Vassilis	2+	Lydia	Want to change cdf_save_vars to correctly write epoch attributes as CDF_EPOCH before starting the process to produce Greenland CDFs. Emailed Tami 11/22/11.							
4409m	SNKQ	10/19/2011	Vassilis	2+	Lydia	SNKQ is confirmed to be the same site as SNK. We already get this data. There seems to be an issue with data availability at the moment, but this is a problem at their end. Nothing needs to be done. We got data from Alberta.							
4409n	Greenland Scripts	10/19/2011	Vassilis	2+	Lydia	see 4409k							
Pat													
4138f	Run simulation for range of initial positions around the full sphere.	9/17/2010	Davin	1	Pat	Received Data from Rob Lillis - check the mods to see if they work and if so start simulations							
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 - working well and will show Vassilis next week							
4355	IDL-VM checkout	8/30/2011	Yoshimasa - lugonet	1	Pat	sent possible fix to lugonet on 11/22/11 for their last VM error							