

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													
Oldies for Discussion - Du Jour													
552	Pass in a calling (or main) widget status bar object into a child widget (see dproc), so that an appropriate message could be left behind after the child widget was closed or killed. I think this would be a good thing to do generally												
663	ASK only has one data type, but it still makes you click in the window to select this. We could probably auto-select the '*' to resolve this.						1/2 day						
692	"support additional time formats for Save Data As ASCII"?						3 days						
716	When I swapped between traces on the line window there was a noticeable screen flicker and the line window was moved back to the center of the viewing area.(even though I had positioned the window off center. The flicker can be eliminated by turning upda												
725	Need a template or way to store certain global window values (time,												
General													
	Harald reports that Calgary changed their data server in early September, and downloads started failing after that. Lydia made changes to the GMAG download scripts, which seem to be working. Changes in progress for ASI download scripts, should take about a week to finish downloading ASI files and check for anything missing.	10/31/11	Jim L		Harald	Ask Lydia							
Hannes													
4153	maintenance of gmag stations "Exclude List"	10/11/10	David	0	Hannes	Exclude List updated 7/11/11							
4018a	New Calibration FGM parameters and spin axis offsets	5/10/10	Hannes	1	Hannes								
4080	Attitude Determination next few months	6/21/10	Hannes	1	Hannes								
Aaron													
4417	I found two issues with the implementation of the lazy labels feature. #1 It defaults to stacking the labels and using lazy labels. This means that the default settings cause the labels to pile up on top of each other so that the labels are illegible. I think that we should have lazy labels set by default but not the stacked labels. #2 The lazy titles doesn't account for the fact that having this setting on changes the height of the labels, so that it positions the labels on top of each other. This means that there is no way that you can have lazy labels and stacked labels enabled at the same time and have them not collide.	10/31/11	Pat	1	Aaron								
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 command line.	6/30/11	Pat	2	Aaron	on hold until mid January 2012							
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	discuss at s/w meeting on 11/7							

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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 <code>thm_load_fgm /pos_units= 'RE'</code> . Also <code>thm_load_state</code> keyword <code>out_coord = 'GSM', 'GSE',...etc.</code>		Hannes	3	Aaron	discuss at s/w meeting on 11/7							
2029c	If one loads fgm data from probe 'a' and let's say there are no data for the chosen interval. The variables <code>tha_fgl</code> and <code>tha_fgl_gsm</code> etc. should all be empty. It could be those variables still contain data from the previously loaded interval.		Hannes	3	Aaron	discuss at s/w meeting on 11/7							
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 <code>thm_cotrans</code> on the command line, as they can using the <code>coord</code> keyword.		Pat/Jim L	3	Aaron								
2063	Problem with <code>edit3dbins</code> is being caused by IDL's mouse system variable not being updated correctly on Macs. The <code>ctime</code> 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 <code>ctime</code> 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 <code>gettime</code> that I copied you on yesterday should provide a temporary way around this bug.		Aaron	3	Aaron	verify note in quick reference guide and then task will be closed							
Ben													
4403	clean up SST data from 4385 (Jim L)	10/17/11	Jim L	1	Ben	in progress							
4403a	implement a tool to clean up particle distribution CDFs as described	10/17/11	Jim L	1	Ben								
4403b	integration with <code>process_lzp_dir</code> (L0->L1) pipeline	10/17/11	Jim L	1	Ben								
4403c	reprocess entire mission to clean up L1 ESA and SST product	10/17/11	Jim L	1	Ben								
2149g	write a routine to check time tag monotonicity and repair tplot variable if necessary ("replace with NaN" and "delete") - Specifically checkout the esa pkt issue from Shanshan. Check other programs for similar code.		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. (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).							
2149h	integrate time tag fixer-upper with TDAS load routines - <code>thm_load_XXX</code> and few others		Jim L	2	Ben	discuss at the software meeting							
Jim L													
4385	strange patterns in SST data	9/26/11	Xuzhi	0	Jim L	Now seeing similar issue in ESA data - just monitor.							
4369	THEMIS Leap Second Discussion	9/15/11	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. Looking like early next week to complete the leap second document. Sending document for feedback 11/4.							
4310	state files: including P1, P2 SSE and SEL coordinates	8/8/11	Vassilis	0	Jim L	V02 and V03 reprocessing in progress							
4310d	Test that revised CDFs have correct data	8/8/11	Vassilis	0	Jim L								
4310e	Deploy code changes and new master CDFs for use in the automated processing	8/8/11	Vassilis	0	Jim L	on hold until confirmation 4310d							
4310f	Reprocess state CDFs for entire mission	8/8/11	Vassilis	0	Jim L	Add SSE, SEL coords; new attitude/spinphase for V03 (inner probes)							

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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.	8/18/11	Vassilis	0	Jim L								
4326b	Then for Particles and Spin Fits	8/18/11	Vassilis	0	Jim L	Vassilis is okay awaiting Sabine's okay							
4326c	add new variables to STATW cdf and reprocessed					on hold 4326b is done							
Jim M													
4419	Reprocess overview plots with automated sun contamination removal?	10/26/11	Pat	0	Jim M	Also break up such that OV Plots run on multiple processors - in progress							
4412	Out of memory problem loading HSK data for long timespan	10/28/01	John Bonnell	0	Jim M	sent John diagnostic code to run							
4334c	Ambrosia Migration - testing and Migration	8/22/11	David	0	Jim M	Migrate completed - no msgs when commits							
4334d	Danaid Migration - testing and Migration	8/22/11	David	0	Jim M								
4365	reverse-engineer the process of updating the onboard tables that define the ESA and SST angle/energy modes.	9/8/11	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 Have code for reading maps into memory, working on outputting IDPU commands.							
Lydia													
4422	If you load some data in the gui and then load data with the same tplot name at the command line, then you can import the data into the gui using tplot_gui. I remember changing tplot_gui (task 3053) so that you can choose a new name for the data you are importing and not overwrite the data in the gui. If you instead try to import the data into the gui using manage/import data, it brings up a 'verify data' panel allowing you to change the tplot name, but even if you do change it it seems to overwrite the existing variable in the gui. This is probably something I should have fixed as part of 3053, but I evidently didn't notice at the time.	11/1/11	Lydia	1	Lydia	done needs to be committed							
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: Leirvøgur, 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 Kazue 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.	10/19/11	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)	10/19/11	Vassilis	2+	Lydia	They make minute resolution data available through Intermagnet. Point of contact: kundservice@sgu.se (the website sounds like they usually sell their data to people).							
4409f	Barrow (BRW) (USGS, US)	10/19/11	Vassilis	2+	Lydia	1 sec data available for the current month at http://geomag.usgs.gov/data/magnetometer/BRW/OneSecond/ , minute data available at intermag.net. Point of contact: Duff C Stewart dcstewart@usgs.gov. email sent on 11/2/11. Reply that they will look into the request.							
4409k	Narsarsuaq (NAQ) (DTU, Denmark)	10/19/11	Vassilis	2+	Lydia	We retrieve this data as part of the TGO/DTU greenland sites. 10sec resolution data is now available. Updating and automating the greenland scripts is in progress. Mastercds also need to be updated for 10sec data. Decided to use 1min data as 10sec data is derived from 1 min data. Confused about coordinate system. Asked Vassilis for confirmation of the system he would like data downloaded in.							

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4409n	Greenland Scripts	10/19/11	Vassilis	2+	Lydia	Unless there was a reason why the Greenland download scripts weren't automated to begin with, I think this would be a useful task. It wouldn't be very much work to set up the existing scripts to run on the cron and would mean that someone (me probably) doesn't need to remember to run the download scripts every six months or so. In progress							
Pat													
4420	reprocessed slp data in a different way	11/1/11	Sabine	0	Pat	in process							
4138f	Run simulation for range of initial positions around the full sphere.	9/17/10	Davin	1	Pat	Rob Lillis sanitizing files.; eta couple of weeks from Rob - ping?							
4267c	Write code to remove proton and electron contamination from the electron and proton distributions using data and efficiencies from the F & O channels.	6/27/11	Pat	1	Pat	Updates from Drew doing and analysis and you are - working code							
4355	IDL-VM checkout	8/30/11	Yoshimasa - lugonet	1	Pat	another error - IUGONET researching; review list of duplicate name modules at next S/W meeting							
2060	L2 cdf Quality Flags: for SST		Vassilis	2	Pat								
4002	Document: SST File and Calibration Processing	3/5/10	David	2	Pat	David to ask Davin for ppt document corresponding to pdf on ftp site concerning SST							