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												
4425	Removing Duplicate procedures	11/3/11	Pat		Pat - Aaron	Reviewd Aaron's notes and list next S/W meeting 11/14							
4427	The ESA data are missing from a lot of the reprocessed plots. Probably an issue for Jim M. Example: THEMIS C October 16,17 2007.	11/8/11	Pat	0	Jim M	**The ESA data is missing from non-reprocessed plots too, if you look at the ESA moments plots, not reprocessed, for those days, at least the ones in oct-2007, there also looks to be a problem. It turns out that the moments calculation fails for peif, peef data. I don't know why.**							
4428	3-D Data Structures	11/7/11	Jim L	0	Aaron								
	Oldies for Discussion - Du Jour												
736	Users Guide in HTML		Oldie										
740	If the user opens the running history with Word right in the middle of their session, then the history will not get saved at all after that point. Our fix to wait until the file is free will not allow us to save the file at any time. We should put an er		Oldie				2 days						
743	GetProperty/SetProperty object methods - replace methods with code that is 'smarter'. This will help code maintenance so that new attributes can be added without having to change them in 4 or 5 places.		Oldie				1 week						
745	Windows: using arrow keys in spinners (spin it with up/down arrows)		Oldie										
751	Add tabs to each window		Oldie				1 day						
	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	**verify user's guide update needed; QA Suite uodate**							
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	11/7/11	Oldie	1	Aaron	**in progress**							
692	"support additional time formats for Save Data As ASCII"?	11/7/11	Oldie	1	Aaron								
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 thm_load_fgm /pos_units= 'RE'. Also thm_load_state keyword out_coord = 'GSM', 'GSE',...etc.		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 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	**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 thm_cotrans on the command line, as they can using the coord keyword.		Pat/Jim L	3	Aaron	check for non inertial							
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	3	Aaron	verify note in quick reference and users guide and then task will be closed							
	Ben												
4403	clean up SST data from 4385 (Jim L)	10/17/11	Jim L	1	Ben								
4403a	implement a tool to clean up particle distribution CDFs as described below	10/17/11	Jim L	1	Ben	**in progress - tool developed; awaiting feedback from Jim L**							
4403b	integration with process_lzp_dir (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 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. **(repair monotonicity of time tags) has been discussed with Jim and the work will start asap, followed by the repair routine's integrationwith TDAS (Task 2149h).**							
2149h	integrate time tag fixer-upper with TDAS load routines - thm_load_xxx and few others		Jim L	2	Ben	**review alternate approaches at S/W meeting 11/14**							
4379	Add Mirror Sites and Other Missions Using TDAS info to Admin Guide	9/23/11	Jim L	2	Ben	**in progress**							
	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. **Sent document for feedback 11/4.**							
4429	add support for new pos/vel and spin model variables to thm_load_state, both for command-line and GUI	11/8/11	Jim L	0	Jim L	**drop down menus, etc, users guide, qa suites and scrpts**	1 hr						
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								

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4326b	Then for Particles and Spin Fits	8/18/11	Vassilis	0	Jim L	in progress							
	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; from Jim to John 11-2-11: So far, The program never seems to use more than 400Mbytes of memory, at least as far as I can tell? Can you run the attached version and send the IDL output to me, in a journal file? It just has a couple of statements included, help, /memory, which checks how much memory is being used, and has been used, and get_max_memblock2, which is a program that we wrote to check to see how big an array you can create.							
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												
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 responded on 11/10**	2/19/10	James Weygand	2	Lydia	They are moving all the data to another server - on hold. Once they have completed the move we can get 2007 data and we will update scripts to handle the new data location.							
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: Leirvorgur, 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.							
4409k	Narsarsuaq (NAQ) (DTU, Denmark)	10/19/11	Vassilis	2+	Lydia	Data is all downloaded and just need to create cdf's.							
4409n	Greenland Scripts	10/19/11	Vassilis	2+	Lydia	see 4409k							
	Pat												
4420	reprocessed slp data in a different way	11/1/11	Sabine	0	Pat								
4138f	Run simulation for range of initial positions around the full sphere.	9/17/10	Davin	1	Pat	Reeceived 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.	6/27/11	Pat	1	Pat	problem found, temp solution Pat will use and Drew will come up with a permanent solution							
4424	It looks like there is a bug. We recently changed the way that the SST data is handled in the overview plots, and the new method is returning all NaN data for 2011-11-02 psif. The data is there, though, so we'll get the new plots up as soon as the bug is fixed.	11/7/11	Stefan Eriksson - LASP	1	Pat	make mods and run tests	3-4 hrs						
4355	IDL-VM checkout	8/30/11	Yoshimasa - Iugonet	1	Pat	another error - bug analysis; review list of duplicate name modules at next S/W meeting							