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												
4462	Tick label format for longer time intervals	12/12/2011	IUGONET			item 3.1.3 from presentation							
4463	file_http_copy support for proxy servers	12/12/2011	IUGONET			item 3.3 from presentation							
4464	mods for file_retrieve, determine remote & local parts from URL returned by query from metadata DB	12/12/2011	IUGONET			item 3.4.2 from presentation							
4465	Diagnose, repair? Spikes in FGS data.	12/14/2011	Vassilis	0	Jim L	Unknown cause, can repair by using diagnostic quantity thx_fgs_sigma to detect and remove samples with fitting problems during L1->L2 processing. Signature of real events very similar to glitches, may not be as straightforward as I first thought.							
4466	Documentation for mirror site admins	12/14/2011	David			Sample scripts, suggested config for ssh, rsync,firewalls. Add to THEMIS-ARTEMIS admin guide?							Yes
4467													
	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										
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						
949	Page Options - Text tab: Step 6q (enter negative numbers for font sizes): Title and Footer font size spinners don't give a warning for size < 0. None of the font size spinners revert to the last valid value if a negative number is entered. Step 6r (enter		Jim L			Title Footer - messages output are confusing, always says panel spacing changed. Need to buffer messages. Need to inform user negative value not accepted							
955	Incorporate user profiles - Have a configuration panel that lets you set default values (e.g. a user always wants annotation time style to be of a certain format, size, or fon)t. This way they don't have to change everything everytime they start a new ses		Marissa				2.5 weeks						
959	When removing a middle panel with locked axes on and you have more than 2 panels, the space the removed panel occupied is drawn blank, rather than moving the panels below it up.		Cindy				2 days						
	QA v7.0 Issues to be tested **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; reporcessing after AGU for the STATE**							

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4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes								
Aaron													
4461	thm_part_getspec, poor performance loading L2 FGM data; should load L1 FIT or L2 FIT instead, if they exist.	12/9/2011	Vassilis	0	Aaron	Need to fall all the way back to L1 FIT, or is looking for L2 FIT good enough?							
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 - in progress. Check OS Lion when available at UCLA.							
692	"support additional time formats for Save Data As ASCII"?	11/7/2011	Oldie	1	Aaron	**separate list of formats for save data instead of use axis annotation list**							
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.	6/30/2011	Pat	2	Aaron	**on hold until mid January 2012**							
Ben													
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	**qa testing coming**							
4403c	reprocess entire mission to clean up L1 ESA and SST product	10/17/2011	Jim L	1	Ben	**reprocess 1 month subset into QA, through L2 and summary plots, build & test tmtools 7.1 release for this**							
4437	Move Ephemeris Processing to TMTOOLS.	11/17/2011	Jim L	1	Ben	**in progress - processing script done, working on wrapper script, logging, error reporting**							
3093	Automate processing of eclipse sunpulse data from FGM team	2/22/2010	Jim L	1	Ben	**then reprocess**							
Jim L													
4458	Horae (rsync server for mirror sites) is dying and needs to be migrated to a VM ASAP.	12/8/2011	Jon L	0	Jim L								
4369	THEMIS Leap Second Discussion	9/15/2011	Vassilis - Jim L	0	Jim L	**Received feedback from Harald and others, will incorporate into next draft and distribute.**							
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. Probably a good idea to make a THEMIS-specific moment calculation routine, to avoid extensive changes to WIND code currently being used.**	3-4 weeks depending on pri zero tasks						
4326b	Then for Particles and Spin Fits	8/18/2011	Vassilis	0	Jim L	**in progress - dependent on 4034a2**							
Jim M													
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 **Have code for reading maps into memory, working on outputting IDPU commands. Pat to send list of sun contaminated bins to Jim M. In parallel, will try to recover Davin's code from malfunctioning hard drive.**							

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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							
4365c	(Maybe) ETC table image->IDPU command converter: If Jim McF or Davin can't come up with a list of IDPU commands, we may need an additional utility to take the desired ETC memory image, and convert that to a file of IDPU commands that will produce the desired memory image when executed on board.	9/8/2011	Vassilis	0	Jim M								
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. See task 4365 (same process)**							
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								
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												
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Lydia	Next March 2012							
4460	tsmooth2 and time_clip do not preserve NaNs, introduce artificial data	12/9/2011	Vassilis	1	Lydia	Unable to reproduce, need clarification from Vassilis							
4405	tidy up the cribs that load ACE data so that they use dates where the data is available	10/18/2011	Lydia	1	Lydia	**in progress - one more crib to do, waiting for Davin to check in missing STEREO calibration routine.**							
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	Heard back from David Milling, who gave us a sample URL we can use to download CDFs with wget. Location will probably change when new server is ready.							

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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 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.	10/19/2011	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	**The scripts to download and process the data have been written but are not yet running on the cron. I am in the process of downloading data back to 2007.**							
4409b	Dixon (DIK) (AARI, Russia)	10/19/2011	Vassilis	2+	Lydia	**Still waiting for a reply as to whether Kyoto or APL can make this data available. sent email 11/18/11.**							
4409c	Cape Chelyuskin (CCS) (AARI, Russia)	10/19/2011	Vassilis	2+	Lydia	see 4409b							
4409d	Tixie Bay (TIK) (AARI, Russia)	10/19/2011	Vassilis	2+	Lydia	see 4409b							
4409e	Cape Wellen (CWE) - closed, replaced with Pebek (?) (AARI, Russia)	10/19/2011	Vassilis	2+	Lydia	see 4409b							
4409f	Barrow (BRW) (USGS, US)	10/19/2011	Vassilis	2+	Lydia	**Draft scripts to download and process the data have been written, but are not tested or running on the cron yet. Data back to 2007 (provided in a different format) has been downloaded. Scripts have been written to process this data. Processing of data is waiting on a response from USGS as to who to list as PI etc in the mastercdf (email sent Nov 29).**							
4409h	Yellowknife (YKC) (CANMOS/Geological Survey of Canada)	10/19/2011	Vassilis	2+	Lydia	**The scripts to download and process the data have been written but are not yet running on the cron. Waiting on response from NRCan as to who to list as PI etc (reply on Nov 29 said they would get back to me soon). Have downloaded some back data for 2011 and 2010, but I think they are still setting up the ftp site I have access to and some data has not yet been added.**							
4409i	Fort Churchill (FCC) (CANMOS/Geological Survey of Canada)	10/19/2011	Vassilis	2+	Lydia	ss 4409h							
4409k	Narsarsuaq (NAQ) (DTU, Denmark)	10/19/2011	Vassilis	2+	Lydia	**Greenland download and processing scripts are now running on the cron. I am currently downloading back data to 2007 where available in the better coordinate system.**							
4409l	Leirvorgur (LRV) (Iceland)	10/19/2011	Vassilis	2+	Lydia	**sec resolution data for the current month and min for previous months is available at ftp://ftp.raunvis.hi.is/pub/lrv/. Point of contact: Þorsteinn Sæmundsson halo@raunvis.hi.is. Sent email requesting permission to access data on Nov 9th. No response as yet.**							
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 gat data from Alberta.							
4409n	Greenland Scripts	10/19/2011	Vassilis	2+	Lydia	**see 4409k**							
4409o	Update Admin Guide	10/19/2011	Vassilis	2+	Lydia								
4409p	Upodate Online accesible charts	10/19/2011	Vassilis	2+	Lydia								
	Pat												
4439	Astrea Testing and Migration	11/22/2011	David	0	Pat	awaitiny sysadm mysql move							
4439a	Test DB on astraea2		David	0	Pat	DB on astraea2 seems to be working well							
4439b	Make sure make_ae_index_cleanup gets called somewhere		David	0	Pat	fixed.							

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4439c	Wait for quiet period to cut over to new astraea without data gap		David	0	Pat	Wait until after holidays to cut over to new server							
4457	Update developer guidelines for IDL 8.0/8.1 (e.g. never use negative array indices, etc)	12/5/2011	Pat										
4455	Make plots default to standard (R,G,B) colors even if defaults not set	12/5/2011	Vassilis	1	Pat	in progress							
4138f	Run simulation for range of initial positions around the full sphere.	9/17/2010	Davin	1	Pat	**Reeceived Data from Rob Lillis - check the mods to see if they work and if so start simulations. Sim still running.**							
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**							