

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													
4485	Discuss usage of message/info vs. dprint in TDAS code	1/10/2012	David		All	QA prep							
4486	Workaround for IDL 8.1 garbage collection bug	1/11/2012	Lydia		Lydia	QA prep							
4487	State velocities not marked as velocities in gui (CL ok)	1/12/2012	Aaron		Jim L	QA prep							
4489	TDAS cotrans to magnetic coordinates?	1/12/2012	Cindy	?	?								
4490	Resolve naming conflict between IDL 8.1 and ssl_general	1/12/2012	Lydia		All	QA prep							
4491													
4492													
4493													
Oldies for Discussion - Du Jour													
General QA v7.0 Issues to be tested													
4448	In particular, he was getting two problems: #1 If he tried to run plotxy to create a postscript without having > already created a normal plot, it would throw an IDL error. #2 If he tried to run plotxy to create a postscript after having created a normal plot it would throw a different error > #3 If he used the replay functionality with plotxy(call plotxy with zero > arguments), it worked. He is using IDL 6.3 with TDAS 6.0 on windows. I can't replicate these issues on my computer, even when I run a copy of his code. My hunch is that this is a windows compatibility issue. Since #3 works, he has a temporary workaround, but we should still probably track the problem down and fix it.	12/30/2011	Stefan - UCLA and Pat	0	?	Stefan to upgrade IDL version from 6.3 and try again. QA prep?							
4388	I was having some trouble getting the mouse click feature to work with the various tplot functions in TDAS after upgrading to a new system running the Lion OS. After poking around a bit it looks like there are a couple X11 settings that need to be changed to allow clicking of tplot windows (such as when using the tlimit command). In X11 preferences I enabled the following: Input: Emulate three button mouse Windows: Click-through Inactive Windows After enabling those I was able to click on tplot windows again. Just passing along the info in case there are others who may experience this issue.	9/30/2011	Justin Lee - UCLA	1		Pat: This looks different than the instructions that we have in the quick reference guide. I think that we may need a new set of instructions for newer macs. Jim L: Maybe we should upgrade my Macbook from OS X release "Leopard" to "Lion". (There's an intermediate "Snow Leopard" release between those two...maybe also worth testing?) It might even be possible to install all three OS versions, so we can boot into whichever one we need for testing or troubleshooting.							
4389	One is that makepng doesn't appear to work for OSX Lion. Two is that tlimit doesn't work right in OSX Lion. He said that he wasn't having any of these problems in Snow Leopard, and he's going to roll back to the previous OS. But we should probably still try to resolve these issues for future users.	9/30/2011	Justin Lee - UCLA	1									
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		Also on Lion							
4459	QA for TDAS 7 under IDL VM	12/12/2011											
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							

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4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes								
4472	Inter-spacecraft FGM calibration for ARTEMIS	1/4/2012	Vassilis	1	Hannes								
Aaron													
4421d	User's Guide				Aaron	add reference to thm_soc_135_time_conventions document (QA prep)							
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. Ping UCLA IT people next week; OS Lion is a prerequisite for starting TDAS 7.0 QA.							
Ben													
4403	clean up SST data from 4385 (Jim L)	10/17/2011	Jim L	1	Ben								
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. QA prep							
3093	Automate processing of eclipse sunpulse data from FGM team	2/22/2010	Jim L	1	Ben	then reprocess. JWLT to provide detailed task description. Probably not before QA.							
4466	Documentation for mirror site admins	12/14/2011	David	2	Ben	Sample scripts, suggested config for ssh, rsync, firewalls. Add to THEMIS-ARTEMIS admin guide? Japan and France contacted, awaiting reply.							Yes
Cindy													
Jim L													
4421b	L1 File Definitions			1	Jim L	add reference to thm_soc_135_time_conventions document (QA prep)							
4476	Discuss thmsoc_dp_current deployment process, avoid unintended updates from trunk	1/5/2012	Jim L, David	1	Jim L	After QA, review CDF "software version" requirement with SPDF.							
4479	themis dependencies in ssl_general	1/9/2012	Davin	1	Jim L	dsl2gse, dsl2ssl, thm_load_goesmag, etc. QA prep.							
4465	Diagnose, repair? Spikes in FGS data.	12/14/2011	Vassilis	1	Jim L	No code changes required. Document on web site (anomalies/watch out for) as something to be aware of							
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	Use new UCLA mirror site as test case for new server, or maybe Chile since UCLA will take a while to set up.							
4468	Modify ESA packet loading code to use standard spinmodel routines rather than deprecated ASCII files.		Jim L	0	Jim L	To be completed before starting QA.							
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. Have list of contaminated bins.							

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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. JWJL (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, JWJL 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													
4421a	Developers Guide			1	Lydia	add reference to thm_soc_135_time_conventions document (QA prep)							
4421c	L2 File Definitions			1	Lydia	add reference to thm_soc_135_time_conventions document (QA prep)							
4481	New data product, AE index from THEMIS+std sites	1/9/2012	Vassilis	1	Lydia	After QA							
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Lydia	Next March 2012							

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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: 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.							
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							
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.							
4409p	Update Online accesible charts	10/19/2011	Vassilis	2+	Lydia								
4396	Testing v6.0 and bleeding edge with Mac Lion OS - see Justin's Issues	10/4/2011	David	3	Lydia	QA prep							
Pat													
4421e	Quick Reference Guide			1	Pat	add reference to thm_soc_135_time_conventions document (QA prep)							
447	Save THEMIS document: Attempting to save to a read only file in Windows outputs the correct error message, but IDL crashes immediately afterwards.	2/24/2011	Team	2	David - Pat	IDL Error report to ITT - Bjorn at ITT 6/22: what I see it has been fixed in IDL 8.1 which is available for download from our website. Let us know how things work out after you install IDL 8.1 and test this out. Part of QA prep.							
3065	68. GUI z-axis options -- when Fixed Min/Max selected, value in spinners does not reflect current range as it does for X and Y axes. Displayed range when spinners desensitized is inaccurate.	2/10/2010	Aaron	3	Pat	check draw object. QA prep.							
4434	bug in the sst load code that is called from thm_part_moments which should occur when loading reduced distribution data. There is a keyword called badbins2mask which allows you to disable particular angles, when creating moments. If this keyword is called when using reduced distribution data it will fail because it assumes that the reduced distribution data is in 2	11/16/2011	Pat	3	Pat	QA prep	1 hr						
3063	40. CL tplot options -- setposition test plots all look the same	1/15/2010	Pat	4	Pat	Long-standing tplot bug, may not ever be fixed							