

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E; crib; script; suite; UG; DevG; Qref; AdmG
<b>To be Assigned or Discussed</b>								
4656	THEMIS Orbits - Discuss with Dan Cosgrove on July 9th	6/4/2012	Vassilis	n/a	Discuss	discuss at S/W top of Meeting		
4632	Just had a question about pseudo-variables, Stefan was wondering about setting colors for pseudo variables. This is a features that we have not yet implemented. (You can set colors on pseudo variable components, but not at the top level).	5/21/2012	Pat	?	Aaron	4-8 hours with testing to add the custom colors feature for pseudo variables. Once in place it may be easier to add other similar features as well	4-8 hrs	
4650	It appears that not all labels are "anchored" in the same manner. In the attached plots all the stacked labels are drawn inward from a specified point while the non-stacked labels are drawn outward (anchored on the bottom instead of the top). This may be relevant if we want to compensate for the font size difference.	6/1/2012	Aaron	?	Aaron or Pat?			
4662	version tests (mac): dproc: The message returned to the status bar for too many samples should be updated. The message tells the user to select a time range. Instead it should mention that the Max # of Samples should be set higher.	6/6/2012	Aaron	?	?			
4667	(Not 8.2) If the user selects "No" on the prompt to overwrite an existing themis document a second dialog window pops up with the message "Save cancelled by user". This seems unnecessary.	6/7/2012	Lydia	?	?			
4668	(Not 8.2) The slices gui ends up being a bit long on small laptop screens. On both macs the status bar can end up behind the dock icons at times. This can be remedied with smaller icons or auto-hiding the dock, but we may also be able to shrink the size of the window a bit.	6/7/2012	Aaron	?	Aaron			
4669	(Not 8.2) The slices code should output percent progress to the status bar and/or IDL console. The processing times are usually short ( < 1 second per cut for basic slices) but depending on data type and resolution they can be much longer. With the recent addition of averaging over multiple planes the time per slice can easily exceed 30 seconds, making progress reports necessary when taking multiple cuts.	6/7/2012	Aaron	?	Aaron			
4674	(Not 8.2) Draw area changes size when switching between hardware and software rendering modes if zoom is not at the default 100%.	6/12/2012	Aaron	?	?	Add a step to thm_ui_graphic_rendering test to set the zoom to something other than 100%, then switch back and forth between hardware and software rendering modes.		
4675	Excessive console messages from getspec. Example: "THM_SST_ATTEN_SCALE(63): Attenuator flags are invalid: 0" was repeatedly printed when producing a gyro spectrum for THA.	6/11/2012	Aaron	?	?	Some may have been fixed post-TDAS 7.		
4676	(Not 8.2) The fixed min/max spinners in the z-axis options window are slightly too large for their base, resulting in their labels being clipped a bit.	6/11/2012	Aaron	?	?			
4677	(Not 8.2?) 2-d slices: Step 3 i) - as the test script says, there is no data, but it takes quite a while and seems to do other processing before telling you that there is no data	6/12/2012	Lydia	?	Aaron			

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4678	(Not 8.2) If I open z-axis, go to panel 4 then check "fixed min-max" i will replace the min setting with the value 0 and the max with the value 1. If I click apply, it complains that min is greater than max(it isn't) and says that it will reset the range settings. It only resets the min range however, but leaves the max at 1. (Thus the min actually is greater than the max after the first apply) When I select apply again, it reports the error a second time and correctly resets the fixed min/max.	6/12/2012	Pat	?	?	Lydia: The first message I get is 'correct' though - it says that you can't have 0 minimum on a log axis. Then it resets the min, but not the maximum leaving the minimum greater than the maximum. Not sure why it is setting it to 0 and 1 to begin with.		
4679	WIND test script: I might recommend this suite be put on a list for updating, there were a few instructions that could be confusing to a new tester (step3b, 3c, and 5d).	6/12/2012	Cindy	?	?			
4680								
4681								
4682								
<b>Hannes</b>								
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List to be updated week of 6/11/2012		
4018a	New Calibration FGM parameters and spin axis offsets	5/10/2010	Hannes	1	Hannes	updated 6/4/12		
4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes	Should be updated by end of June 2012.		
4472	Inter-spacecraft FGM calibration for ARTEMIS.	1/4/2012	Vassilis	1	Hannes	6/4/12 from Hannes: Artemis inter spacecraft		
<b>Aaron</b>								
4468	Ongoing - Review all commits by Davin, Peter, etc for impact to TDAS.	3/27/2012	David	0	Aaron	Provide weekly report and spreadsheet		
4673	Resolve duplicate/conflicting remove_zeros procedures	6/8/2012	Lydia	1	Aaron			
4493	2D slices, 1.5D Pitch Angle Distributions - command line in progress; GUI?	1/23/2012	Vassilis	1	Aaron	Andrei will look at this after GEM. Xuzhi: looks good, but found a bug in the crib.		
4494	2D slices, 2D Pitch Angle Distributions - command line in progress; GUI?	1/23/2012	Vassilis	1	Aaron	Andrei will look at this after GEM. Xuzhi: looks good, but found a bug in the crib.		
4536	GUI Slices:Step 8 g) Annotation precision only changes z axis labels (not x, y) . Is that as intended?	3/1/2012	Lydia	1	Aaron	Aaron completed analysis - it can be done. Discuss at S/W meeting.		
4503	thm_load_fgm does not throw error for invalid probe, only prints a message...should this be a more severe error?Several datatypes and thire invalid does not tell you about third. Any error don't process any.	2/3/2012	Ben	1	Aaron	Will remove thrown-error from thm_check_valid_name.pro (restore it to its previous version), and instead of throwing an error, the load routine will be modified to keep track of the requested inputs and processed inputs, and provide a summary/error report at the end of the load routine. In progress 6/15/2012.		
4646d	The getspec panel doesn't error check when I set a minimum energy greater than the maximum energy. From the GUI messages it appears to pass invalid energy range to the command line routine.	5/31/2012	Pat	1	Aaron		2-4 hrs	
4463	file_http_copy support for proxy servers	12/12/2011	IUGONET	1	Aaron	item 3.3 from presentation - in progress	1-3 hrs	
4464	mods for file_retrieve, determine remote & local parts from URL returned by query from metadata DB	12/12/2011	IUGONET	1	Aaron	item 3.4.2 from presentation - in progress	5-10 minutes	

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4653	version tests (win): save/load: The cadence spinner on the Time Interpolate Options window should be increased to 1.	6/4/2012	Aaron	1	Aaron		5-10 min	
4645	minor issues during IDL8.2 Testing							
4645a	In the slices panel the smoothing width spinner tooltip says to enter an odd integer, but even integers are accepted. Also, if you use the spinner arrow keys the numbers increment by 2, but probably not the way they were intended to (they go 3,4,6,8,10 etc).	5/31/2012	Lydia	1	Aaron			
4645b	If you set the annotation size to something small or very large the error message says: An unknown error occurred and the current operation had to be canceled. The slices panel stays open and working, but it might be good to handle these errors better or restrict the allowed annotation size.	5/31/2012	Lydia	1	Aaron	Not IDL 8.2 related.		
4645c	In the Slices test 8 d) it says the plot should stay the same when autorange z is checked/unchecked. This didn't happen.	5/31/2012	Lydia	1	Aaron	Not IDL 8.2 related.	1/2 hr	
Ben								
4616	Chile having download issues	4/26/2012	Marina Stepanova	0	Ben	Email sent 5/21/12 - awaiting response from Chile. Ben to email again 6/8/2012		
3093	Automate processing of eclipse sunpulse data from FGM team	2/22/2010	Jim L	1	Ben	Once prod reprocessing complete send announcement.		
3093e	Reprocessing	2/22/2010	Jim L	1	Ben	6/13/2012: QA reprocessing looks good.		
3093f	Update Admin Guide	2/22/2010	Jim L	1	Ben	in progress (document automated processing)		
3093g	production cron job	2/22/2010	Jim L	1	Ben			
3093h	Add diagnostic plots for FGL-FIT offset determination							
3093i	reprocess entire mission - notify Jim M and Tami before doing	2/22/2010	Jim L	1	Ben			
4633	Reviewed Admin Guide - Ephemeris Manuel Processing after outage's of any sort	5/21/2012	Jim L	1	Ben			
4458	Horae (rsync server for mirror sites) is dying and needs to be migrated to a VM Astrea2. Once UCLA rsync done run SPDF test against UCLA Mirror Site.	12/8/2011	Jon L	1	Ben	** In Progress ** Testing with UCLA; Once UCLA has completed the catch up rsync to test the UCLA data with the GUI doing loads, creating plots.		
4458a	migrate Japan mirror site	40885	Jon L	1	Ben	Based on UCLA rsync performance, ready to migrate other mirror sites.		
4458b	migrate France mirror site	40885	Jon L	1	Ben			Y
4458c	migrate Chile mirror site	12/8/2011	Jon L	1	Ben			
4613	Prevent Email Storms when data servers go down	4/25/2012	Jim L	1				
4613c	Modify existing processing scripts to log to the database rather than send their own emails	4/25/2012	Jim L	1	Ben	cronwatch script converted, next will be VC, L0->L1, ephemeris, state V02, overview plot scripts.		
4316d	Admin guide update	6/8/2012	Jim L	1	Ben	Document log database, PHP scripts, and cron job for generating email notifications from database.		
Cindy								

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2027e	Finishing the coordinate transformation of the thm_load_state data at input, to include transformation of spinaxis attitude, need to determine keyword switch, implement the rotation of the spinaxis elevation/azimuth from gei to arbitrary coordinates (consult with Pat Vassilis)	7/1/2010	Vassilis	2	Cindy	In progress 6/15/2012.		
Jim L								
3093d	Validate Reprocessing	2/22/2010	Jim L	0	Jim L	Reprocess L1 State Data into QA (two months of probe 'D') - bells and whistles will be added (fgs data?) thmsoc path mgmt ???		
4034a2	thm_parts_moments update (spin moments mods)	11/22/2010	Vassilis	0	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. Jim McFadden (as of 3/26/12) said he would review what Jim L sends him. <b>Waiting on Ben to finish 3093 so I can start testing.</b>		
4509	Some array accesses still use () instead of [].	2/6/2012	A. Breneman	1	Jim L	<b>For example the ESA packet loading routines, thm_load_peif, thm_load_peek. Work to be done when 4034a2 work continues</b>		
4326b	Then for Particles and Spin Fits	8/18/2011	Vassilis	0	Jim L	in progress - dependent on 4034a2.		
4326c	reprocessing for the moments and spin fits	8/18/2011	Vassilis	0	Jim L	<b>on hold 3093 is done (task 3093 assigned to Ben)</b>		
4451	operating the particle instruments in "accumulate" rather than "snapshot" mode. So we'd be getting into some unexplored territory. The time tagging code in the L0->L1 particle distribution processing would need some slight modifications to support "accumulate" mode. The ESA load routines use the L0 packets directly, and probably also assume "snapshot" mode, so that's another potential set of required modifications. I wouldn't be surprised if the ESA and SST calibration code also assumes snapshot mode. It would need to be tested with real data (since we have no way to generate a realistic particle data stream on FLATSAT).	12/1/2011	Vassilis	1	Jim L	<b>5/21/12 as per Vassilis - give it a shot; Awaiting flatsat availability - after SST table updates and ESA energy table updates. Probably will have to wait until NuStar launch/EOC.</b>		
4451a	tmtools mods (L0->L1 processing)	12/1/2011	Vassilis	1	Jim L			
4451b	Modify instrument scripts to enable accumulate mode, flatsat testing	6/12/2011	Jim L	1	Jim L / Ops	When MOC support available, probably after NuStar.		
4451c	tdas mods - if accumulate mode approved discuss at S/W meeting	12/1/2011	Vassilis	1	Jim L	double chech slices and getspec as per Aaron		
4451d	Put one probe in accumulate mode and verify correct L0->L1 and L1->L2 processing with live data.	6/12/2011	Jim L	1	Jim L			
Jim M								
4672	Remove mk_html_help and related routines from TDAS due to conflict with IDL builtin routines.	6/8/2012	Jim L	1	Jim M	Will require some testing to see we can generate html help files from IDL code using the IDL builtin routines.		

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4365	reverse-engineer the process of updating the onboard tables that define the ESA and SST angle/energy modes. <b>Jim M: he process of creating the RAW commands will result in an IDL routine which has the same functionality as the "lost" code that Davin wrote in 2008. This will make future changes easier.</b>	9/8/2011	Vassilis	0	Jim M	We now have a viable EEPROM upload workflow.		
4365g	<b>If all goes well:</b> Ops team: Run the EEPROM update script on one of the probes. Verify that the EEPROM update has effected the desired changes. <b>6/4/12:Vassilis check Plots; Jim M check for mode changes.</b>	4/11/2012	Vassilis	0	Jim M, Jim L, Ops Team, Science Team	<b>Status as of 6/15/2012: THA tables updated, data looks good. THD, THE tables uploaded and validated, waiting for transition back into FS to validate data. THB, THC: Table uploads still pending.</b>		
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	<b>Persons that can provide information are: Davin, Deron Pease/McDonald, Michael Luldam and Robert Abiad. Awaiting task 4365 (same process)</b>		
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	<b>only ARTEMIS probes</b>		
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			
4639	Also, there are a bunch of other calibration files that are used FGM and other instruments. The installation of these files is not detailed in the admin guide yet. I created a new section, with only one entry for this particular cal file type. If we want to be thorough, we should probably do the others.	5/30/2012	Pat	1	Jim M			
4658	version tests (win): save/load:: Received the following error while loading a themis document that tested replay of data processing: "VALUE_LOCATE: Array X does not have enough elements." Last IDL Error: % VALUE_LOCATE: Array X does not have enough elements. % Execution halted at: INTERPOL 161 C:\Program Files\ITT\IDL706\lib\interpol.pro % SMOOTH_IN_TIME 302 C:\Documents and Settings\aflores\Desktop\tdas_7_00\idl\ssl_general\misc\smooth_in_time.pro	6/5/2012	Aaron	1	Jim M	in progress 6/15/2012		
4663	version tests (mac): dproc: A high pass filter operation failed when loading a themis document. This occurred on IDL 8.2 (Mac) and 7.0.6 (Windows). Last IDL Error: % Illegal subscript range: ARRAY_X. % Execution halted at: TEMP_T_INTEGRATION 34	6/6/2012	Aaron	1	Jim M			

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2283b	There is another aspect to this problem. Dead-time corrections are severe for ion ESA SW data and there are no dead-time corrections for onboard moments. Some algorithm will have to be developed that does this correction after the fact. Davin developed an algorithm like this for Wind 3DP. That algorithm may not work directly due to differences in energy sweeps, but something like it could be developed for THEMIS. Davin and I can provide some advice and direction. Similarly electron onboard moments in the SW may also need some corrections -- this should also be worked out at the same time. <b>**Send old code to Pat**</b>	11/2/2009	Jim Mcfadden	1	Jim M	Jim McFadden showed me what he had in mind for improving the corrections for ground-processed moments. This involves calculating the dead-time correction based on a higher resolution energy grid, with 4 different points per output energy channel. In progress: Jim M 8/26/11: Thanks for looking at this. It also seems the the pressure tensor has some interesting spikes due to the dead-time correction, while the scalar quantities seem to be more stable 9/23/11: <b>Will ping Jim Mcfadden. May need additional code to convert from fluxes back to raw counts. When code written, will discuss with J McF. 6/15/2012: Jim M's recollection is that we decided not to do this.</b>		
Lydia								
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Lydia	Next October 2012		
4629	CARISMA gmag data We haven't received any data since May 9th. A few day delay is not unusual, but this does seem long. The download script is showing an rsync error 12. I've emailed the CARISMA team and they say the data is there and they know of no problems at their end (though they are looking into it for me).	5/18/2012	Lydia	0	Lydia	6/15/2012: SSH keys were corrupted after disk crash. We generated a new key pair, waiting for them to install the public key to restore our SSH access. Downloads should resume when that's done.		
4481	New data product, AE index from THEMIS+std sites	1/9/2012	Vassilis	1	Lydia	awaiting Russian data		
4649	I see that the IDL 8.2 development environment now checks to see if there are multiply-defined routines on your IDL path. Below is a list of the duplicate definitions it finds in tdas_7_00. Many of them have more than one definition within TDAS, but some of the conflicts are with IDL 8.2 builtin routines.	6/1/2012	Jim L	1	Lydia	Most of these conflicts should be easily resolved: For conflicts between TDAS routines and IDL 8+ new features: Rename the TDAS routine and .pro file with a thm_ prefix, then find all references to the old name and update them by adding the prefix. For multiply defined routines within TDAS: Most of these are probably helper routines that didn't have their own .pro file; someone probably cloned the .pro file and left the helper function definition in place. For these cases, first check that the definitions are truly identical; if so, pull them out into their own .pro file and remove them from the two conflicting .pro files. If any of the "duplicate" routines have diverged since the fork, we would have to either merge both copies into a common routine that works for all call locations, or rename one of them and make sure the appropriate version is called everywhere. There may be references outside the originally conflicting .pro files, so that would have to be checked. 6/15/2012: Several conflicts resolved, asked Davin for input on what to do with ssl_general routines.		
4654	I was running through the export to image test slightly more thoroughly than the testscript prescribes. Both eps and emf have RGB/CMYK options for the user. EPS plots have a noticeable difference if you choose CMYK rather than the default RGB, but no difference is noticeable for the emf plots. It looks like the code actually ignores the CMYK option when saving as emf. If this is true then we should perhaps either not ignore it or remove the option.	6/4/2012	Lydia	?	?	Change the panel that comes up when you click Options for EMF format so that it doesn't offer a choice for colour and graphics (the Options panel is different for different formats already, eg png is different to eps). Separate code blocks for different output formats. 6/15/2012: CMYK option removed from EMF dialog.		

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4665	Laura confirmed that teachers used both the EPO .jpg files from the data archive at <a href="http://sprg.ssl.berkeley.edu/themis/GEONS/">http://sprg.ssl.berkeley.edu/themis/GEONS/</a> and also data in ascii format (though she was not certain from what website they obtained that).	6/6/2012	Laura P (EPO)	1	Lydia	ASCII file list processing restarted. Needs to be more efficient: option 1: only generate lists for current year. Option 2: Replace filesystem search with database inserts/queries. Lydia to investigate feasibility of (2). 6/15/2012: Probably a hybrid approach (use database, restrict filesystem searches to current year) will be best. In progress. Also, we were missing some "joined" files from 2007, reprocessing in progress.		
4661	I tried to load 3dp datatype pm for 2012 - the testscript says to check availability at <a href="http://sprg.ssl.berkeley.edu/data/wind/3dp/">http://sprg.ssl.berkeley.edu/data/wind/3dp/</a> and test different combinations. There are cdfs for 3dp pm for 2012 on that site, but the have are _v05 and don't load. Should they load?	6/6/2012	Lydia	1	Lydia	Peter Schroeder says that the v03, v04, v05 files are structurally identical. When a higher version file is produced, the lower versions are deleted. Suggests load routine should look for highest version. Or we could wait for an upcoming reprocessing, then have the load routine look for that specific version. For QA we can just stick to older data. Need input from Vassilis: worth the effort to make enhancements to the load routine for WIND?		
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.	2/19/2010	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. In progress as of 5/15/12 at their end. May take a while, if ever.		
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	awaiting 4629 to complete		
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			

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4409b	Dixon (DIK) (AARI, Russia)	10/19/2011	Vassilis	2+	Lydia	Downloads in progress. Data from 2011 on has been made available; they have agreed to provide data back to 2007. No 1 sec data available (minimum 1 minute sample interval).		
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	Leirvorgur (LRV) (Iceland)	10/19/2011	Vassilis	2+	Lydia	code to download and process is done and Iceland can make the data available. 5/10/12: Awaiting past data in zip file will be awhile.		
Pat								
	Updated FGM calibrations for solar array currents, ADC nonlinearity available?	5/30/2012	Vassilis	0	Pat	Last Recieved - May 2012. May need to remind FGM team if we go a long time without updates.		
4659	dist.bins option appears to be ignored when it is used to disable energy bins on 1-d data types in thm_part_moments.	6/6/2012	Pat	0	Pat			
4660	The FT/OT/T/FTO channels are not masked out for reduced data. For full distribution data, these channels were disabled because they're not properly calibrated. I think that failure to disable them for reduced distribution data is probably just an oversight.	6/6/2012	Pat	0	Pat			
4458	Create a set of Benchmark Tests against IDL future versions (now for v8.2 beta). Run these tests and produce a report. In addition present this report to Exelis in a web conference with a demo of TDAS. Benchmark Tests should include tests for PC, Mac (leopard and lion) and Linux O/S.	3/21/2012	David	1	Pat	IDL 8.2 QA testing completed 6/13/2012. Looking into a few bug reports to see if we can more reliably reproduce the issues (e.g. data tree bugs).		
4504	Updated FGM calibrations for solar array currents, ADC nonlinearity available?	2/3/2012	Pat	1	Pat	6/15/2012: Pat has looked at the data before/after cal updates using David Fischer's suggestions; there is visible improvement with the new calibrations.		
4470	Pre-deployment summary plot QA script	1/4/2012	Jim L	1	Pat	Check that summary plots are produced, and that they're roughly correct, before pushing updates into production. 06/08/2012: Script is running, if results are OK this task can be closed.		
4508	GUI xy axis: improve aesthetic ticks	2/9/2012	Pat	1	Pat	Formerly QA112, QA276. I'm not really happy with the way that the aesthetic ticks option performs if you request more ticks than the number of orders of magnitude visible on a log axis. For example, on a plot of 1-1000, it will correctly select major ticks at 10 & 100, but you can't make it put more than 2 major ticks on the axis with that range. It seems like it would make sense for it to be able to put major ticks at $10^{1.5}$ and $10^{2.5}$ . Or if the ticks are not in scientific notation, maybe put the ticks at the nearest round number to $30(10^{1.47})$ and $300(10^{2.47})$ . In	1-2 days	