Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E; crib; script; suite; UG; DevG; Qref; AdmG
	To be Assigned or Discussed							
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	
4647	I am reviewing a paper for GRL that uses THEMIS data incorrectly. Basically, the authors are trying to publish solar array switch spikes as evidence for DLs. I am sorry that I cannot give you more details. will notify the editors of this problem. However, it is entirely possible that such a paper could have been published and I want you to be aware of this problem. Perhaps a warning should be posted on the web site: (1) Axial boom data are not necessarily valid, particularly in the subsolar region. (2) THEMIS EFI data have unwanted "spikes" which come at four times per spin. These spikes are removed in released THEMIS data analysis programs, but the removal process can leave a residue.	6/1/2012	Bob Ergun - Colorado U	?	?			
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	?	?			
4652	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."	6/4/2012	Aaron	?	?			
4657	version tests (win): save/load: 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.	6/5/2012	Aaron	?	?			
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	?	?			
4666	Modify thmsoc prc_etime.ksh script to work on auxo (currently supports linux hosts only)	6/7/2012	Lydia	?	?	ps command options & output format are different on Solaris.		
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	?	?			

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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	?	?			
4670	Since the full distribution data is at 3 second resolution when we're in fast survey, we might want to consider stopping transmission of reduced distribution data when we're in fast survey. We could use the saved bandwidth to transmit reduced distribution data in 6 angle mode when we've in slow survey.	6/4/2012	Vassilis	?	?			
4671	Problem with REDR data (bad range_epoch on one file)	6/8/2012	Tami	?	Lydia	Possibly a problem at the magnetometer -- bad data in the last sample of the last data file, probably not our processing Lydia is looking into it.		
4672	Remove mk_html_help and related routines from TDAS due to conflict with IDL builtin routines.	6/8/2012	Jim L		Jim M	Will require some testing to see we can generate html help files from IDL code using the IDL builtin routines.		
4673								
4674								
4675								
	v7.0 QA Tasks for Review with Vassilis							
	General							
	Tips of the Month		David		David	Next Candidates: Lynn Wilson Routines; Eclipse auto pprocessing; FGM Reprocessing		
4664	Laptop locjks UCB and UCLA	6/6/2012	David	0	Team			
4464	All plug-ins for v7.10 - add a section to User's Guide for Plug-ins	3/22/2012	David	1	David	Discuss at the appropriate time what the content would be. Also add a link for VM on the Software Web Page or Developers web page?		
	Hannes							
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Hannes	Exclude List updated 7/11/11. **David 5/4/12: Has this been updated since?**		
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	**What is the status?**		
4472	Inter-spacecraft FGM calibration for ARTEMIS.	1/4/2012	Vassilis	1	Hannes	**6/4/12 from Hannes: Artemis inter spacecraft**		
	Aaron							
4468	Ongoing - Review all commits by Davin, Peter, etc for impact to TDAS.	3/27/2012	David	0	Aaron	Provide weekly report and spreadsheet		
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.**		

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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.**		
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	
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.**		
3093d	Reprocessing	2/22/2010	Jim L	1	Ben	**QA reprocessing done with a good selection of probes/dates/data quality. JWL reviewing to decide if ready to reprocess production data.**		
3093e	Update Admin Guide	2/22/2010	Jim L	1	Ben	**in progress (document automated processing)**		
3093f	production cron job	2/22/2010	Jim L	1	Ben			
3093g	reprocess entire mission - notify Jim M and Tami before doing	2/22/2010	Jim L	1	Ben			

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4633	Reviewed Admin Guide - Ephemerus 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							
2027e	Finishing the coordinate transformation of the thm_load_state data	7/1/2010	Vassilis	2	Cindy			
	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 ???**		
4637	Yesterday, we did a data dump on the flatsat, which contained a couple hundred packets of engineering data. We then "restored" the segment and dumped it again. Then we let data accumulate over night. This morning, we dumped the segment again, and while dumping sent the restore command. This test is essentially to see if the same data we dumped yesterday are available in the second dump and what effect if any sending the restore command during the dump might have had. Mark asked me to forward the two files to you. In the first, the first data dump after the first "restore". In the second, the second data dump with a "restore" while the dump was in progress. /home/jmcd/test_data/SSL.FLATSAT.TLM_VC3.2012_145_173946 .0 home/jmcd/test_data/SSL.FLATSAT.TLM_VC3.2012_146_182430. 0 (or do you need the other VC files, too?)	5/30/2012	John McDonald / Jim Lewis	0	Jim L	From what I saw in apid 410, it looks like the dump strategy worked as intended, and we got both copies of the original engineering segment contents, with no ill effects on the VC->L0 processing due to duplicated or out of order packets. Is that enough to declare success, or would you like me to look at some other apids?		
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. **Waiting on Ben to finish 3093 so I can start testing.**		
4509	Some array accesses still use () instead of [].	2/6/2012	A. Breneman	1	Jim L	**For example the ESA packet loading routines, thm_load_peif, thm_load_peeb. Work to be done when 4034a2 work continues**		

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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	**on hold 3093 is done (task 3093 assigned to Ben)**		
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	**5/21/12 as per Vassilis - give it a shot; Awaiting flatsat availability - after SST table updates, lower priority than ESA energy tables.**		
4451a	accumulate mode	12/1/2011	Vassilis	1	Jim L	flatsat testing l0-l1 mods;	3-4 weeks depending on pri zero tasks	
4451b	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		
	Jim M							
4655	Attached are the new fgm cal files. Pease reprocess: tha: from 2011 09-01 on; thb: from 2012-02-05 on; thc: from 2012-03-01 on; thd: from 2011-08-11 on; the: from 2011-08-06 on	41064	Hannes	0	Jim M	Reprocessing finished.		
4648	full mission reprocessing of fgm data for David Fisher new	41061	Pat	0	Jim M	Reprocessing finished.		
4365	reverse-engineer the process of updating the onboard tables that define the ESA and SST angle/energy modes.**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.**	9/8/2011	Vassilis	0	Jim M	We now have a viable EEPROM upload workflow.		
4365g	**If all goes well:** Ops team: Run the EEPROM update script on one of the probes. Verify that the EEPROM update has effected the desired changes.**6/4/12:Vassilis check Plots; Jim M check for mode changes.**	4/11/2012	Vassilis	0	Jim M, Jim L, Ops Team, Science Team	**flatsat test completed and uploading to Probe A 6/1; review SST data see if sun containmination is out of the data; Pat: ICCR_JSM135, SST Sun Angle Maps on THEMIS-A. 6/8/2012: Requested ops team to dump EEPROM on THB/C/D/E, in preparations for table updates to occur when THEMIS-A SST data is validated.**		
4365h	**If something goes wrong on FLATSAT:** Diagnose what went wrong, restore EEPROM to what it was before the test, retry with corrected table update procedure.	4/11/2012	Vassilis	0	Jim M, Jim L, Ops Team			
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. Awaiting task 4365 (same process)**		

6/8/2012 3:47 PM   5   20120608 - Print Version - Themis Software Task Priority List.xls

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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	**only ARTEMIS probes**		
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			
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			
	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	**in progress -5/21/12 - major disk failure at their end; database back on line 6/1/12 Lydia sent email as we are not getting anything**		
4481	New data product, AE index from THEMIS+std sites	1/9/2012	Vassilis	1	Lydia	**awaiting Russian data**		

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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. **In Progress -- know how to resolve most conflicts. Need to ask Aaron about remove_zeros routine.**		
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	?	?	This was a new task at the meeting on Monday so I'm not sure of the task number. The situation is as follows: In the GUI you can use export to image to save a file in EMF format. The GUI lets you choose options for saving in EMF format including 1. changing between rgb and cmyk colour 2. changing between raster and vector graphics Neither cmyk colour nor raster graphics are actually supported in emf format so choosing these options does nothing and is potentially very confusing to the user. We have two options: 1. 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). 2. Pat has suggested that EMF format is not important so we could remove EMF entirely from the list of formats. Option 1 would probably take slightly longer than Option 2, but both are on the order of an hour or two.**It would be good to have Vassilis's opinion on which option he would prefer.**		
4665	Laura confirmed that teachers used both the EPO jpg files from the data archive at http://sprg.ssl.berkeley.edu/themis/GEONS/ and also data in ascii format (though she was not certain from what website they obtained that). **Part (a) : I will reinstate the ASCII file lists that I stopped after the power outage. Part (b) long term we may want a task to look at the script that produces the lists and find a way to make it run a bit faster.**	6/6/2012	Laura P (EPO)	1	Lydia	part (a) done, part (b) to be discussed with group		
4636	If you open X Axis Options and uncheck 'show date' then click apply, then recheck 'show date' the Line 1 and Line 2 fields remain	5/30/2012	Lydia	1	Lydia			
4640	On Linux/Mac the grid check boxes in the axis options are very small and don't really look like buttons.	5/30/2012	Lydia	1	Lydia	**Actually, I'll revise that. It is to do with the button being created with an empty value (ie no label). It will need**		

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4661	I tried to load 3dp datatype pm for 2012 - the testscript says to check availability at http://sprg.ssl.berkeley.edu/data/wind/3dp/ 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	**Jim L**: The test script doesn't seem to have been modified since January 2010, so maybe the v05 CDFs are a new development. It looks like the v05 CDFs start at the very end of 2011, so maybe v04 data from 2011-12-29 and earlier can be loaded.**Lydia:** This is in the GUI - it simply says no data available. e.g Remote file not found! "http://sprg.ssl.berkeley.edu/data/wind/3dp/pm/2012/wi_pm_3dp_20120301_v03.cdf". There is a file http://sprg.ssl.berkeley.edu/data/wind/3dp/pm/2012/wi_pm_3dp_20120301_v05.cdf (v05 rather than v03). **Jim M**: Maybe we have hard-coded the version number. Jim's idea of using older data is probably best for now, but maybe we should look into testing for the latest version		
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.**		
4409b	Dixon (DIK) (AARI, Russia)	10/19/2011	Vassilis	2+	Lydia	**5/31/12 - eta for data week of 6/4-6/8**		
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	**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		
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	**(50% Time) - awaiting beta v8.2 from Exelis**		

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4504	Updated FGM calibrations for solar array currents, ADC nonlinearity available?	2/3/2012	Pat	1	Pat	update admin guide after testing; Pat 5/30/12:Files are installed. **We might want to do an L1->L2 FGM reprocess. Also, I'm not sure if we want to have someone take a look at the data.** I don't really have the expertise to tell if the calibrations improved things ro not.		
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.		
4460	Add New Routines from Lynn Wilson	3/22/2012	Vassilis	1	Pat			
4460-1	Include: safe, minimal effort, obvious benefit. (21)		Vassilis	1	Pat		3-4 days	
4460-2	Documentation only: LW3 has documented a routine that didn't have documentation previously, but incorporating routine body is no worthwhile.(possible bugs or too much effort) (12)		Vassilis	1	Pat		1 day	
4460-3	Don't include: Too difficult to be sure it won't cause problems, or LW3 version is worse. (24)		Vassilis		Pat	will not do		
4460-4	Not sure: Need a scientist's opinion on the benefits of the routine. (26)		Vassilis	?	Pat	Vassilis will talk to Lynn Wilson and ask the benefits of these routines		
4460-5	Not sure: Need more programmer time to make confident recommendation. (14)		Vassilis	?	Pat	Vassilis will talk to Lynn Wilson and ask the benefits of these routines		
4460-6	Helper, only include if required by an included routine. (9)		Vassilis	1	Pat			