Task #	Task Description	Date	Reported By	Dri	Assigned To	Notos		A&E crib;
I ask #	ומא שבאנווףנוטוו	Opened	Neported By	FII	Assigned 10	INDIES		script; suite;
		•					Estimate	UG; DevG;
								Qref; AdmG
4050	To be Assigned or Discussed	0/4/0040			Dia			
	THEMIS Orbits - Discuss with Dan Cosgrove onJuly 9th Aaron reported that if he switches between hardware and software	6/4/2012 6/26/2012	Vassilis	n/a	Discuss	discuss at S/W top of Meeting 7/9		
4003	rendering mode in the GUI when the level of zoom is not 100%, it	0/20/2012	Aaron					
	changes the size of the draw area. If you do this repeatedly, the							
	draw area gets smaller with each switch.							
4684	It looks like the default y-axis labels for our keograms may be wrong	. 6/26/2012	Pat	0	Pat	It says [counts], but I'm pretty sure that the y-axis is pixels(it runs		
						from 0 to 255 on a linear scale) and the z-axis is counts.		
						(Currently, the z-axis has no unit labels.)		
4685	Widget tree expansion, IDL 8.2	6/26/2012	Pat			IDL fixed a bug which we had worked around, need a version		
						check to enable/disable the workaround so it will work on all IDL		
4686	There were several reports that the dproc window was too small in	6/27/2012	Pat			versions. For whatever reason, many widget sizes are specified in		
+000	IDL 8+. It looks like this is a side effect of the font change.	012112012	Fat			characters, instead of more standard units. This means that if		
						the base font size of a character changes, so does the size of a		
						viewable area. Just an FYI, I'm going to be rolling this one into		
						the font size one. I'll list it as a reason why the font size change		
						is such a pain in the rear.		
4687	if you followed the right set of instructions, you could create a set of	6/27/2012	Pat			" The following steps reproduce the error consistently on Mac (I		
	plots that is clipped off screen. I verified that this is not an IDL 8.2					was unable to reproduce it on Windows). i. increased the size		
	issue and occurs on IDL 7.0 as well.					of the current page (containing plots) (I used 12 x 16 inches) ii.		
						zoom out until horizontal scroll bar disappears iii. create a new		
						page iv. add plots to that page The plots I got were clipped on		
						the left side. It appeared as though the dimensions of the plots from the previous page may have still been in use. Switching		
						pages does not correct the issue. The page's dimensions can be		
						made large enough to fit the plots, but the error reoccurs when		
						the dimensions are returned to the default values. Zooming		
						corrects the issue if you zoom in to 100%. Loading a saved file		
						does not appear to reproduce the bug."		
		0/07/00/0						
4688	Ensure that remote_data_dir URLs end in trailing slash	6/27/2012				Add it in file_retrieve if it's missing		
4689								
4030								
	v7.0 QA Tasks for Review with Vassilis	,						
	General							
	Tips of the Month		David		Jim L	Next Candidates: Lynn Wilson Routines; Eclipse auto		
						pprocessing; FGM Reprocessing		
4661	I tried to load 3dp datatype pm for 2012 - the testscript says to	6/6/2012	Lydia	1	Jim L	Wait till after WIND reprocessing and see what happens to		
	check availability at http://sprg.ssl.berkeley.edu/data/wind/3dp/ and					version numbers, if they're all consistent then 5 minute		
	test different combinations. There are cdfs for 3dp pm for 2012 on					change to load routine. Will not do "load highest version"		
	that site, but the have are _v05 and don't load. Should they load?					responsibility of WIND developers.		
4664	Laptop locks UCB and UCLA	6/6/2012	David	0	Team			

Task F Task Description Date Date (and prime prime prime (and prime prime) Perported by (and prime prime (and prime prime) Note (and prime prime prime (and prime prime) Note (and prime prime prime (and prime prime) Date (and prime prime prime (and prime) Perported by (and prime prime prime (and prime) Note (and prime prime prime (and prime prime) Rescription (and prime prime) Rescription (and prime prime prime (and prime prime) Rescription (and prime prime) Rescription (and prime prime) Rescription (and prime) Rescription (and prime) Rescription (and prime) <				_		·	1 8		
447 Immersion Immersion 1 Particle Pariic Particle Particle <td>Task #</td> <td>Task Description</td> <td>Date Opened</td> <td>Reported By</td> <td>Pri</td> <td>Assigned To</td> <td>Notes</td> <td>Estimate</td> <td>UG; DevG;</td>	Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	UG; DevG;
Basecaly, the authors are trying to public hold rarry with spaces Colorado U by Joint Bounel (very busy with RBSP at the moment). David will wrap yo. Basecaly, the authors are trying to public hold rarry with a canding try you to be possible on the server of this problem. However, it is entirely possible that such a paper could have been publiched and on the possible on the server of this problem. However, it is entirely possible that such a paper could have been publiched and on the possible on the server of this problem. However, it is entirely possible that such analysis problem. However, it is entirely possible that such a paper could have been wanted this possible register (2014). Exclude List up to date as of 8/25/2012 Image: Colorado U 4158 mannenance of grag gatations "Exclude List" 10/11/2010 David 0 Hannee Exclude List up to date as of 8/25/2012 Image: Colorado U	4464	All plug-ins for v7.10 - add a section to User's Guide for Plug-ins	3/22/2012	David	1	Jim L	add a link for VM on the Software Web Page or Developers		
4153 maintenance of grang stations "Exclude List" 10/11/2010 David 0 Hannes Exclude List up to date as of 6/25/2012 Image: Statute List up to date as of 6/25/2012		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	6/1/2012		1		by John Bonnell (very busy with RBSP at the moment). David		
4018a New Calibration FGM parameters and spin axis offsets 5/10/2010 Hanness 1 Hanness 6/14/12 Hanness: Attached is a new thd FGM cali-Ile, Please reprocess thd from 2012-23-33 on. 6/20112 Jim M: reprocessing started. 4000 Attitude Determination next few months 6/21/2010 Hannes 1 Hannes Should be updated by end of June 2012. Image: started is a new thd FGM cali-Ile, Please reprocess thd form 2012-03-32 on. 6/20112 Jim M: reprocessing started. Image: started is a new thd FGM cali-Ile, Please reprocess thd FGM calibration for ARTEMIS. 1/4/2012 Vassilis 1 Hannes Should be updated by end of June 2012. Image: started is a new thd FGM calibration for ARTEMIS. 1/4/2012 Vassilis 1 Hannes Guality flags for FGM data. Hannes talked to Ferdinand and suggests come flags in the state CDF: time swhen sign if it FGL data. FGL data used to refine the calibre spin mode! times when sign if it FGL data used to refine the calibre spin mode! watables. JWL will document in L1 file definition document. Final flem not so exist in tow when spin fit FGL data used to refine the calibre spin mode! watables. JWL will document in L1 file definition document. Final flem not so exist in tow when spin fit FGL data used to refine the calibre spin mode! watables. JWL will document in L1 file definition document. Final flem not so exist in tow when spin fit file definition document. Final flem not so exist in tow show clarify on the spin fit timing. Image: started flem so tow school talk used to restrict tow clarke to theweek clary twashift tin file definition document. Final flem not s		Hannes							
4472 Inter-spacecraft FGM calibration for ARTEMIS. 1/4/2012 Vassilis 1 Hannes 6/4/12 from Hannes: Artemis Inter spacecraft differences 6/4/12 from Hannes: Artemis Inter Spacecraft di							6/18/12 Hannes: Attached is a new thd FGM cal-file. Please reprocess thd from 2012-03-23 on. 6/20/12 Jim M:		
2074cquality flag for FGM data Dependencies on Ben's tasks 3093 and JWL's tasks 4142 and 2266.Vassilis2Hannesquality flags for FGM data: Hannes takked to Ferdinand and suggests some flags in the state CDF: times when spin fit AFGL data used to refine the eclipse spin model: dijustments were performed; times when spin fit AFGL data used to refine the eclipse spin model: dijustments were performed; times when v03 andtude corrections are available; times when spin fit Iming had problems. Some of these flags already present in state CDF spin model variable; times when spin fit Iming had problems. Some of these flags already present in spin fits. Keep task open, Vassilis says we can come back to it when we have clarity on the spin fit timing.4468Ongoing - Review all commits by Davin, Peter, etc for impact to progress; GUI?3/27/2012David VassilisAaron and review eakly report and spreadsheetImine44932D slices, 1.5D Pitch Angle Distributions - command line in progress; GUI?1/23/2012Vassilis1Aaron and review all look at this after GEM. Xuzhi: looks good GUI?Imine44932D slices, 2D Pitch Angle Distributions - command line in progress; GUI?5/21/2012Vassilis1Aaron andrei will look at this after GEM. Xuzhi: looks good goodImine4463quist had a question about pseudo-variables. This is a features that we have not yet implemented. (You can set colors on pseudo variables about setting colors on 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).6/21/2012Pat1AaronAaron testing at ULLA, JWL to notify IUGONET	4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes	Should be updated by end of June 2012.		
JWL's tasks 4142 and 2266.JWL's tasks 4142 and 2266.JWL's tasks 4142 and 2266.JWL 's tasks 4142 and 2060.JWL 's tasks 4142	4472	Inter-spacecraft FGM calibration for ARTEMIS.	1/4/2012	Vassilis	1	Hannes	6/4/12 from Hannes: Artemis inter spacecraft differences		
4468 Ongoing - Review all commits by Davin, Peter, etc for impact to TDAS. 3/27/2012 David 0 Aaron Provide weekly report and spreadsheet 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 Andrei will look at this after GEM. Xuzhi: looks good Andrei will look at this after GEM. Xuzhi: looks good GUI? 44632 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 1 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 4-8 hrs 4463 file_http_copy support for proxy servers talk to Lydia 12/12/2011 IUGONET 1 Aaron Testing at UCLA, JWL to notify IUGONET team when ready 1.2 hrs	2074c			Vassilis	2	Hannes	suggests some flags in the state CDF: times when eclipse spin model adjustments were performed; times when spin fit & FGL data used to refine the eclipse spin model; times when V03 attitude corrections are available; times when spin fit timing had problems. Some of these flags already present in state CDF spin model variables. JWL will document in L1 file definition document. Final item not so easy, since we have trouble even detecting the timing problem in spin fits. Keep task open, Vassilis says we can come back to it when we have clarity		
TDAS. TDAS. 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 GUI? Image: Comparison of the command line in progress; 1/23/2012 Vassilis 1 Aaron Andrei will look at this after GEM. Xuzhi: looks good GUI? Image: Comparison of the command line in progress; 1/23/2012 Vassilis 1 Aaron Andrei will look at this after GEM. Xuzhi: looks good GUI? Image: Comparison of the command line in progress; 1/23/2012 Vassilis 1 Aaron Andrei will look at this after GEM. Xuzhi: looks good GUI? Image: Comparison of the command line in progress; 1/23/2012 Vassilis 1 Aaron Andrei will look at this after GEM. Xuzhi: looks good GUI? Image: Comparison of the command line in progress; 1/23/2012 Vassilis 1 Aaron Andrei will look at this after GEM. Xuzhi: looks good GUI? Image: Comparison of the command line in progress; 1/23/2012 Pat 1 Aaron 4-8 hours with testing to add the custom colors feature for pseudo variables. This is a features that we have not yet implemented. (You can set colors on pseudo variable comparison on pseudo variable comparison on pseudo variable comparison on pseudo variables. Once in place it may be easier to add other similar features as well 4-8 hrs 4-8 hrs 4463 file_http_copy support for proxy servers talk to Lydia		Aaron							
progress; GUI? 4494 2D slices, 2D Pitch Angle Distributions - command line in progress; 1/23/2012 Vassilis 1 Aaron Andrei will look at this after GEM. Xuzhi: looks good Image: Command line in progress; Command line in progress; 1/23/2012 Vassilis 1 Aaron Andrei will look at this after GEM. Xuzhi: looks good Image: Command line in progress; Command line in progress; 1/23/2012 Vassilis 1 Aaron Andrei will look at this after GEM. Xuzhi: looks good Image: Command line in progress; Command line in progress; 2/21/2012 Pat 1 Aaron A-8 hours with testing to add the custom colors feature 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). 4-8 hrs 4-8	4468	· · · · ·	3/27/2012	David	0	Aaron	Provide weekly report and spreadsheet		
GUI? 4632 Just had a question about pseudo-variables, Stefan was wondering by 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 1 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 4463 file_http_copy support for proxy servers talk to Lydia 12/12/2011 IUGONET 1 Aaron Testing at UCLA, JWL to notify IUGONET team when ready 1.2 hrs	4493		1/23/2012	Vassilis	1	Aaron	Andrei will look at this after GEM. Xuzhi: looks good		
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).pseudo variables. Once in place it may be easier to add other similar features as well4-8 hrs4463file_http_copy support for proxy servers talk to Lydia12/12/2011IUGONET1AaronTesting at UCLA, JWL to notify IUGONET team when ready12/hor	4494		1/23/2012	Vassilis	1	Aaron	Andrei will look at this after GEM. Xuzhi: looks good		
	4632	about setting colors for pseudo variables. This is a features that we have not yet implemented. (You can set colors on pseudo variable	5/21/2012	Pat	1	Aaron	pseudo variables. Once in place it may be easier to add other	4-8 hrs	
	4463	file_http_copy support for proxy servers talk to Lydia	12/12/2011	IUGONET	1	Aaron		1-3 hrs	

Task #	Task Description	Date	Reported By	Dri	Assigned To	Notes	1	A&E crib;
		Opened			Assigned TO		Estimate	Script; suite; UG; DevG; Qref; AdmG
	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	cmd line & crib changes checked in, GUI will take a little longer because we're running out of space and need to add a new tab.	4 hrs	
	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	
	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	1	Aaron	Some may have been fixed post-TDAS 7.	1 hr	
	(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	1	Aaron		10 min	
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	1	Aaron	analysis only to determine level of effort		
	thm_ui_part_getspec_options.txt: I think perhaps the testscript needs to be revised as it seems a bit	5/30/2012	Lydia	1	Aaron			
	out of date in places, and also a little confusing sometimes.	313012012	Lyula		Adion			
	For the Angular Limits the invalid min/max behaviour is a bit counter intuitive: it truncates the value rather than setting to the last valid value. eg. 450 becomes 45.	5/30/2012	Lydia	1	Aaron	see 4646b	3 -4 hrs for all	
	The processing can often take some time but an hourglass doesn't appear so it is not immediately obvious that it is busy processing stuff.	5/30/2012	Lydia	1	Aaron			
	bug reports getspec GUI suite							
	When I try to plot a spectral quantity as a line plot, it uses the y-axis limit as the default, it should actually use the z-axis limit as the default. (Because a line plot for a spectral quantity actually ends up being an X v. Z plot not an X v. Y plot) This is a side-effect of our more thorough implementation of range defaults. Not a huge issue and easy to fix.	5/31/2012	Pat	1	Aaron			
	It is a little weird that the getspec panel resets your settings to the last valid and then runs with last valid when you enter an invalid character or an out of range value, but if you set min greater than max, it refuses to run and requests that user correct the entry. I feel like it should correct user entry errors consistently.	5/31/2012	Pat	1	Aaron	pop-up to warn users		
	11.b.i indicates that -20.5 is an invalid entry and should be reset. It actually isn't. It looks like this section was written for testing a valid range between [0,360] when the actual valid range is [-180,180]	5/31/2012	Pat	1	Aaron	validate test instructions	1-2 hrs	
4551	Annotation precision with decimal notation was confusing for me eg I had two ticks at 452.59 and 0.148 when the precision was set to 1.234. When you click auto without changing the precision it changes the annotations to 452.6 and 0.1484	3/15/2012	Lydia	1	Lydia			
	(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	2	Aaron		4-6 hrs	

T 1- #	Table Day animitian	Data	Dama at a d Da	Dut		N-4		
Task #	Task Description	Date Opened	Reported By		Assigned To	Notes	Estimate	A&E crib; script; suite; UG; DevG; Qref; AdmG
4543	Axis options: With "bound autoscaling" or "floating center w/ span",	3/14/2012	Pat	2	Aaron	Floating center/span not very useful; probably exists only	1-4 hrs	
	allow units other than seconds for a time axis.					because SPLASH had it. Perhaps it could be removed?	depending	
4505	Add a TDAS routine to do 1-d cuts - when ready to work send Aaron Bennenman an email for clarity of task and then review at the S/W meeting again with Vassilis.	2/6/2012	Aaron Breneman	2	Aaron	You could obtain a 1D cut of a slice by aligning the custom orientation vector (slice_orient keyword) such that the desired cu is along the x or y axis. The data could then be pulled directly from the array returned by thm_part_slice2d via the 'part_slice' keyword. This returns an R x R array containing the interpolated slice data (R=resolution). The x & y axis values for the array are returned in the 'xgrid' and 'ygrid' keywords.	1 hr	
4298	the slices code should probably have a keyword to use the new SS calibrations.	7/27/2011	Pat	2	Aaron	On hold till the SST calibrations have found wider use.		
	Cindy							
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Cindy	Next October 2012		
	Panel options: But if I start by entering 99 for the Column value and click OK, I get the dialog message, and upon OK-ing it, the Panel options window will close. Now, returning to Panel options I see that the Column value is still 99, but changing it to anything else followed by an OK or APPLY doesn't change the actual plot. The only way now to change that Column value is via the "Cols Per Page" value in Plot/Layout Options.		Ben	1	Cindy	Formerly QA279. See also #4531 (consolidate layout options an panel options). Having this functionality in two places that must be kept synchronized is a bit complicated and error prone.		
	New data product, AE index from THEMIS+std sites	1/9/2012	Vassilis	1	Cindy	awaiting Russian data		
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	1	Cindy			
	Most option dialogs give a warning popup when invalid input is "OK"-ed, but close the option panel when the warning is dismissed.	3/15/2012	Ben	2	Cindy	Formerly QA280. Original dialog should probably stay open so user can make the correction without having to reopen the dialog.		
	GUI API for easily adding tabs for other mission's load routines	6/20/2012	GEM	2	Cindy			
	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)		Vassilis	2	Cindy	In progress 6/15/2012.		
	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.		James Weygand	2	Cindy	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.		

Control Opened Control Control <thcontrol< th=""> <thcontrol< th=""> <thco< th=""><th>Task #</th><th>Task Description</th><th>Date</th><th>Reported By</th><th>Dri</th><th>Assigned To</th><th>Notes</th><th>1</th><th>A&E crib;</th></thco<></thcontrol<></thcontrol<>	Task #	Task Description	Date	Reported By	Dri	Assigned To	Notes	1	A&E crib;
Add Radbit Lake and Taloyack is some the but we have some assess with mag some public some that but we have some assess with mag some public some that but we have some assess with mag some public some that but we have some assesses with mag some public some soft is an additional sound to be assessed to make the assesses with mag some public some soft is an additional solution to be additional solution to additional solutional so	1 431 #			Neported by		Assigned 10		Estimate	A&E, chb, script; suite; UG; DevG; Qref; AdmG
stations ¹ is, the ones that go into the officity profile. This because we can there include them into the computation of the AE index - there are 12 - into the THEMIS prefile. This because we can and one in Scandinavia etc. They should be available somehow. Image: Computation of the AE index - they should be available somehow. and one in Scandinavia etc. They should be available somehow. Image: Computation of the AE index - they should be available somehow. Image: Computation of the AE index - they should be available somehow. The const in Scandinavia etc. They should be ready It in the should be available somehow. Image: Computation of the AE index - they should be ready Think he should be ago a source of information about the other stations as well, regular takinaba ind he asalica source of information about the other stations as a well, require and the ready Think he should be ago a source of information about the other stations as a well, require and the ner on the web by searching or at WDD. Image: Computation of the AE index - they source of the them on the web by searching or at WDD. 4409D Dixon (DIK) (AARI, Russia) Image: Computation of the them on the web by searching or at WDD. Image: Computation of the them on the web by searching or at WDD. 4409D Dixon (DIK) (AARI, Russia) Image: Computation of the them on the web by searching or at WDD. Image: Computation of the them on the web by searching or at WDD. 4409D Dixon (DIK) (AARI, Russia) Image: Computation of the them on the web by searching or at WDD. Image: Computation of the them on the them on the web by searching or at WDD.		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		Vassilis	2	Cindy			
4409c Cape Chelyuskin (CCS) (AARI, Russia) 10/19/2011 Vassilis 2+ Cindy see 4409b 4409c Cape Chelyuskin (CCS) (AARI, Russia) 10/19/2011 Vassilis 2+ Cindy see 4409b	4409	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 readyI 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	10/19/2011	Vassilis	2+	Cindy			
4409d Tixle Bay (TIK) (AARI, Russia) 10/19/2011 Vassilis 2+ Cindy see 4409b 4409e Cape Wellen (CWE) - closed, replaced with Pebek (?) (AARI, Russia) 10/19/2011 Vassilis 2+ Cindy see 4409b 4409I Leirvorgur (LRV) (Iceland) 10/19/2011 Vassilis 2+ Cindy see 4409b 778b Need capability to read in ASCII. IDL has a built in widget to specify 11/21/2011 Oldie 2 Cindy 4612 GOES 2008 Data 4/20/2012 Andrei Runov 0 Jim L Jim to sent email to Howard - on hold until data arrives. Email sent on xx/xv/12. Email sent on xx/xv/12. 3093g production cron job 2/22/2010 Jim L 1 Jim L testing in progress	4409b	Dixon (DIK) (AARI, Russia)	10/19/2011	Vassilis	2+	Cindy	available; they have agreed to provide data back to 2007. No 1 sec data available (minimum 1 minute sample		
4409e Cape Wellen (CWE) - closed, replaced with Pebek (?) (AARI, 10/19/2011 Vassilis 2+ Cindy see 4409b	4409c	Cape Chelyuskin (CCS) (AARI, Russia)	10/19/2011	Vassilis	2+	Cindy	see 4409b		
Russia) Russia	4409d	Tixie Bay (TIK) (AARI, Russia)	10/19/2011	Vassilis	2+	Cindy	see 4409b		
4409I Leirvorgur (LRV) (Iceland) 10/19/2011 Vassilis 2+ Cindy 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. 778b Need capability to read in ASCII. IDL has a built in widget to specify 11/21/2011 Oldie 2 Cindy 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. 778b Need capability to read in ASCII. IDL has a built in widget to specify 11/21/2011 Oldie 2 Cindy 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. 4612 GOES 2008 Data 4/20/2012 Andrei Runov 0 Jim L Jim to sent email to Howard - on hold until data arrives. Email sent on xx/xx/12. Email sent on xx/xx/12. 30933 Automate processing of eclipse sunpulse data from FGM team 2/22/2010 Jim L 1 Jim L Once prod reprocessing complete send announcement. 30933 production cron job 2/22/2010 Jim L 1 Jim L testing in progress Email sent on xx/xx/12.	4409e		10/19/2011	Vassilis	2+	Cindy	see 4409b		
ASCII formats. ASCII formats. Image: Constraint of the series of th	44091		10/19/2011	Vassilis	2+	Cindy	make the data available. 5/10/12: Awaiting past data in zip	2	
4612 GOES 2008 Data 4/20/2012 Andrei Runov 0 Jim L Jim to sent email to Howard - on hold until data arrives. Email sent on xx/xx/12. 3093 Automate processing of eclipse sunpulse data from FGM team 2/22/2010 Jim L 1 Jim L Once prod reprocessing complete send announcement. 3093g production cron job 2/22/2010 Jim L 1 Jim L testing in progress	778b		11/21/2011	Oldie	2	Cindy			
3093 Automate processing of eclipse sunpulse data from FGM team 2/22/2010 Jim L 1 Jim L Once prod reprocessing complete send announcement. 3093g production cron job 2/22/2010 Jim L 1 Jim L 1 <td< td=""><td>46.16</td><td></td><td>40000000</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	46.16		40000000						
3093g production cron job 2/22/2010 Jim L 1 Jim L testing in progress							Email sent on xx/xx/12.		
	3093	Automate processing of eclipse sunpulse data from FGM team	2/22/2010	Jim L	1	Jim L	Once prod reprocessing complete send announcement.		
	3093g	production cron job	2/22/2010	Jim L	1	Jim L	testing in progress		
4613 Prevent Email Storms when data servers go down 4/25/2012 Jim L 1 Jim L	4613	Prevent Email Storms when data servers go down	4/25/2012	Jim L	1	Jim L			

Task #	Task Description	Date	Reported By	Pri	Assigned To	Notoo		A&E crib;
Task #		Opened	керопец Бу	FII	Assigned To	Notes	Estimate	Script; suite; UG; DevG; Qref; AdmG
4613c	Modify existing processing scripts to log to the database rather than send their own emails	4/25/2012	Jim L	1	Jim L	cronwatch script converted, next will be VC, L0->L1, ephemeris, state V02, overview plot scripts.		
3093i	reprocess entire mission - notify Jim M and Tami before doing	2/22/2010	Jim L	1	Jim L	To start week of July 1		
4027b	Reprocessing GOES Data	4/5/2010	Tami - SPDF	3	Jim L	Reprocessing on hold until Howard Singer delivers another batcl of binary GOES data files. In conjunction with task 4612.		
	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?)		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? MOC wants to do some additional flatsat testing under various conditions;JWL to analyze test data and assess impact on apid 410 data. 1/2 hour per test.		
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		
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)		
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	1	Jim L	in progress - eta 6/22	10 min	
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	1	Jim L	Requires flatsat testing & MOC support; on hold until NuStar launch/EOC.		

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		Opened					Estimate	script; suite; UG; DevG;
								Qref; AdmG
4451	operating the particle instruments in "accumulate" rather than	12/1/2011	Vassilis	1	Jim L	5/21/12 as per Vassilis - give it a shot; Awaiting flatsat availability		<u> </u>
	"snapshot" mode. So we'd be getting into some unexplored territory.					- after SST table updates and ESA energy table updates.		
	The time tagging code in the L0->L1 particle distribution processing					Probably will have to wait until NuStar launch/EOC. In		
	would need some slight modifications to support "accumulate"					Progress		
	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).							
4451b	Madify instrument egripts to enable accumulate made, flatest testing	6/12/2011	line I	4	lim L / One	When MOC support available, probably after NuStar.		
44510	Modify instrument scripts to enable accumulate mode, flatsat testing	0/12/2011	Jim L		Jill L / Ops	when moc support available, probably after Nustar.		
		40/4/0044	N /					
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(next up)		
	Put one probe in accumulate mode and verify correct L0->L1 and L ²	6/12/2011	Jim L	1	Jim L			
	>L2 processing with live data.							
4142	issue with FGS processing - timestamps	9/30/2010	Vassilis	1	Jim L	not trivial		
-1-1-12	issue with co processing timestamps	0/00/2010	Vassins		UNIT E			
2266	Timing of Spin Fit data	10/16/2009	Jim McFadden	1	Jim L	see 4142		
4476	Discuss thmsoc_dp_current deployment process, avoid unintended	1/5/2012	Jim L,David	1	Jim L	After QA, review CDF "software version" requirement with		
	updates from trunk					SPDF.		
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 fors) as something to be aware of wher		
4468	Modify ESA packet loading code to use standard spinmodel routines		Jim L	1	Jim L	After TDAS 7.0.	4	
	rather than deprecated ASCII files.						1 day	
4430	crib for eclipse despinning code for spin fits and moments	11/9/2011	Jim L	1	Jim L	on hold- demo exists;dependent on 3093		
2074c	quality flag for FGM data - Jim L perform analysis, define task -		Vassilis	1	Jim L	quality flags for FGM data: Hannes talked to Ferdinand and		
403493	someone else to do development awaiting feedback and performing analysis	11/22/2010	Vassilis	1	Jim L	suggests some flags in the state CDF: times when eclipse spin Tips of the Month at some point?		
	Ferdinand P. suggests that we make available a diagnostic quantity		Ferdinand	1	Jim L			
	produced by the eclipse spin modeling procedure. Add "phase"	0/20/2011	. er annanna	Ċ	0 1			
	diagnostic quantity (from eclipse spin modeling process) to L1						1-3 days	
	STATE CDF, to give end users a sense of the expected angular						. e daye	
	error in the eclipse spin model.							
2047	Separate E and B timestamps for spin fits: a) make a revised V02	before the	Vassilis	1	Jim L	Hard for SPDF to deal with, with their plotting tools - review		
	"Add support to thm_cotrans, ssl2gse, and ssl2dsl for /pseudo_dsl		Jim L	1	Jim L	thm_load_fit and thm_load_mom, add keyword. In progress -		
	keyword. If keyword is present, look for and apply eclipse delta_phi					Will review code Davin checked-in concerning tensor		
	corrections as appropriate."					quantities in thm_load_mom.		
4030	cross-check SST psir6 and psif data types for excess counts in psir6	6 4/8/2010	Jim McFadden	1	Jim L	Jim L talked to Davin and sounds like we can shut the data		
						off. Jim L will send email on the time saved by shutting this		
						off.		
4030b	Correct Existing Data	5/17/2010	Jim McFadden	1	Jim L	4030a prerequsite		
40300	If scripts change - make changes to processing scripts	5/17/2010	Jim Lewis	1	Jim L	4030a preregusite		
10000		5,11,2010			5E		4-5 days	

Task #	Task Description	Date	Reported By	Dri	Assigned To	Notos	1	A&E crib;
I don #		Opened	Reported by	FII	Assigned To		Estimate	Script; suite; UG; DevG; Qref; AdmG
QA110	as you know we have a few folks here in our SPDF group who are using the THEMIS-B and C data for a lunar project. They have found and I've confirmed through CDAWeb, that the time stamps and associated data measurements for October. 9, 2010 THEMIS-F	2/7/2011	Tami	1	Jim L	Web Site - instruments will have a web page with "Sources of Data Anamolies". The first one being the ESA issue		
	Create and maintain a list of FBK and FFT (and possibly other?) configuration parameters versus time, to be used by other researchers to located time intervals containing data that was acquired in a particular configuration. Examples (totally made up): THEMIS A Filter Bank Source Selections: 2007-02-23 - 2008-01- 01 e12dc, scm3; 2008-01-01 - 2008-05-01 scm2, e34ac; THEMIS A FFT configuration: 2007-02-23 - 2008-01-01 16 frequency bins, e12dc, e56dc, scm1, scm3; 2008-01-01 - 2008-05- 01 32 frequency bins, e12dc, e56dc, scm1, scm3	7/15/2011	SPDF - Jim L	2+	Jim L	phase 1 - list for next Tips of the month, phase 2 - cdf or web page: To be done before the Map in early 2013		
4301	"bad" themis thg I2 files - instrument files; L0->L1 processing produces incomplete/empty CDFs	8/1/2011	Tami	2	Jim L	one fixed - one priority 2		
2248	once in a while (maybe 10-20 occurrences per probe during the entire mission), the FGM range doesn't change on all three axes at once:	9/10/2009	Jim L	2	Jim L			
	Jim M							
	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)		
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 - Need to talk to Jim McFadden. Also need MOC Support. Jim M has CDI cmds and spreadsheet from Jim McF, writing IDL code to generate new energy		
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	hakke a a ank a and as an and a will be a sum at		
4616	Chile having download issues	4/26/2012	Marina Stepanova	0	Jim M	awaiting for them		
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	Jim M	in progress - they have new rsync		
4458a	migrate Japan mirror site	40885	Jon L	1	Jim M	in progress - they have new rsync		
4458b	migrate France mirror site	40885	Jon L	1	Jim M	in progress - on vacation, waiting to hear back		Y
4458c	migrate Chile mirror site	12/8/2011	Jon L	1	Jim M	in progress - they have new rsync		
	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			

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		Opened	Reported By	F II	-		Estimate	Script; suite; UG; DevG; Qref; AdmG
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			
4003	Document: ESA File and Calibation Processing	3/5/2010	David	1	Jim M			
4312	Quality flags for efi are wrong including electric field offsets in computation. On hold until Michael Hartinger sorts out.	8/8/2011	Vassilis	1	Jim M	discuss with Vassilis		
4233	Angular Correction for particle data - use Jim McFadden's code if available	1/9/2011	Vassilis	2	Jim M			
4241	Dieter and I have tested the variables, there are two that don't seem to have data for the mission, and their catdesc's seem to indicate that they won't so can we "turn these off", or is there a plan to use them in the future? EFS_Q_MAG (Data Quality Parameter: set to NaN for EFS, as there is no good measure of data quality.) EFS_Q_PHA (Data Quality Parameter: Set to NaN, as there is no good way to measure data quality for EFS data.)	6/6/2011	Tami Kovalick	2	Jim M	They are empty at the moment, by design we may have a use for them in the future. Nothing needs to be done with SPDF. Look into EFS_Q_PHA and check with John Bonnell about the future. If we add these variables notify SPDF.		
2224	thm_load_mom: for quantities like velocity, the coordinate system isn't stored in the meta data, and none of the units are stored in the place we normally try to store them (from Pat - Vassilis concurs) Will take a look.		Vassilis	2	Jim M			
2035	Split L1 ESA (using Thomas's routine) in master ESA data cdf		Vassilis	2	Jim M	On Hold - awaiting Jim McFadden release: Then send David Sub Task List; Calibration variables removed from L1 data master CDF. (Side note: found and reported a bug in SKTEditor, which the Goddard team has agreed to fix) Waiting for feedback from Jim McFadden about how calibration data should be handled (TH-A ASCII calibration file (used for all probes) doesn't match anything I removed from the data CDF).		
4208a	Enhanced MOM Instrument Web Pages	3/5/2010	David	2	Jim M	Talked to David first.		
	Lydia							

Task #	Task Description	Date	Reported By	Dri	Assigned To	Notos		A&E crib;
		Opened	Reported by	FII	Assigned To		Estimate	Script; suite; UG; DevG; Qref; AdmG
	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).	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. Lydia to log ir from home week of Jul 2 and wrap up the task.		
	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.		
	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	Write up findings and present to Exelis		
4545	Axis options: Major ticks by interval/Annotate every: For a non-time axis, switching between log/linear doesn't update the major tick every field as might be logical. ie. if you set to every 10000 n^1 on linear then switch to log it still tries 10000 10^n. Usually this means it fails to place any ticks/annotations if you switch between log/linear with either major ticks by interval or annotate every set.	3/14/2012	Lydia	1	Pat	Formerly QA271. If you have major tick every set and a mix of log and linear axes on the page and then use set all panels, you're bound to end up with no ticks on the panel with different scaling.		
4537	Deletion of data not reflected in saved/reloaded THEMIS document. Formerly QA206. Also remember to overwrite prompt setting (yes to all, etc)	3/2/2012	Lydia		Pat	I loaded data for probes b and c and then went to plot the data and realised I should have loaded a and b for the tests. I returne to the load data panel and loaded the probe a data before deleting the probe c data. After saving as a themis document and reopening, the c data was loaded but not deleted. The data that was loaded and deleted using delete all data following the testscript does not appear when you reopen the document (as you'd expect).		
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	
4460-4	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			
4627b	SST: Andrei did some work that makes it look like we may need to look at the inter-anode calibrations for probes B & C.(This may be more Drew than me)	5/17/2012	Vassilis	1	Pat	Complete 4627a - d by August 1		
4627c	SST: We need to generate a combined spectrum product that includes the FTO(low) channel. This would be adding the FTO(low) channel to the F+FT combined spectrum that we've already created.	5/17/2012	Vassilis	1	Pat			

Task #	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E crib; script; suite; UG; DevG; Qref; AdmG
	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	Working on noise removal, etc.		
	SST: After #a-c are done, we need to reprocess SST L2 with sun contamination removed and new calibrations applied.	5/17/2012	Vassilis	1	Pat	need 4267c to be completed		
4002	Document: SST File and Calibation Processing	3/5/2010	David	1	Pat	to be completed 9/30/12		
4603	make new SST Cal standard	3/22/2012	Vassilis	1	Pat	Revisit in July ** on hold **		
	Major ticks by number/major ticks by interval: It might be nice to have major ticks by interval default to something logical rather than 1 n^1. If you change 'Major ticks every' then 'Major ticks by number' is updated to something that closely matches that interval, but the reverse isn't true. I'm not sure if we necessarily need 'Major ticks every' to update when 'Major ticks by number' is changed, but it might be good to have it default at the beginning to something that sort of matched.	3/15/2012	Lydia	2	Pat			
	The bug that Drew had reported yesterday turned out to be not a bug, but because the bins that the sun decontamination code selected differed depending on the date selected and this wasn't clearly reported to the end-user. I put an informational message in to clarify what is happening, but after talking with Drew there are two other solutions that don't fit within the scope of QA, but would be good to consider later. There features are: #1 Add a keyword that returns the the bins that were flagged by automatic sunlight decontamination to the end user. #2 Provide an option to window the automatic sunlight decontamination code so that one test is not applied to the entire time period.	2/22/2012	Pat	2	Pat			
2060	L2 cdf Quality Flags: for SST		Vassilis	2	Pat			-
4208b	Enhanced SST Instrument Web Pages	3/5/2010	David	2	Pat	See current ESA Instrument Web Pages - Make recommendations to Vassilis to improve.		