| Task # | Task Description | Date | Reported By | Pri | Assigned To | Notes | | A&E crib; |
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| | To be Assigned or Discussed | | | | | | | |
| | THEMIS Orbits - Discuss with Dan Cosgrove on July 9th 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). | 6/4/2012 5/21/2012 | Vassilis Pat | n/a ? | Discuss Aaron | discuss at S/W top of Meeting 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 | |
| | 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? | | | |
| | 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 autohiding the dock, but we may also be able to shrink the size of the window a bit. | 6/7/2012 | Aaron | ? | Aaron | | | |
| | (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 wher 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. | | |
| | (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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| | (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. | | |
| | 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 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 4525 | v7.0 QA Tasks for Review with Vassilis GUI feature pruning: many settings (text fonts, label positioning etc) perhaps better performed using external tools (Illustrator, GIMP, | 2/28/2012 | Pat | | | Maintaining the multitude of settings in the GUI ends up taking a lot of development and testing time, so, in theory, | | |
| | etc.) rather than supported directly in TDAS | | | | | we could be more efficient. The types of things we would | | |
| | | | | | | want to refocus on improving would be the variety of data | | |
| | | | | | | types available, the quality of data processing routines, | | |
| | | | | | | and some aspects of the annotation and data viewing. Of | | |
| | | | | | | course, this wouldn't have to be done all at once, it would | | |
| | | | | | | be more just a decision to change our development | | |
| | | | | | | direction a little bit. | | |
| 4500 | | 0/00/0040 | | | | | | |
| 4526 | Set lazy labels in TDAS load routines? | 2/28/2012 | Lydia | | | thm_cotrans sets lazy labels on tplot variables it | | |
| | | | | | | generates, but load routines do not. Should we also do | | |
| 4520 | X-axis options with locked panels | 2/29/2012 | Lydia | | | this in the load routines, for consistency? set all panels' set by default on opening panel, if axes | | |
| 4320 | A-axis options with locked panels | 2/29/2012 | Lyula | | | locked. Somewhat confusing, behavior not the same for all | | |
| | | | | | *************************************** | tabs. | | |
| | | | | | | | | |
| 4537 | Deletion of data not reflected in saved/reloaded THEMIS document. Formerly QA206. | 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 returned 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 | | |
| | | o de la companya de l | | | | expect). | | |
| | General | | | | | | | |
| | Tips of the Month | | David | | David | Next Candidates: Lynn Wilson Routines; Eclipse auto pprocessing; FGM Reprocessing | | |
| | Laptop lociks UCB and UCLA | 6/6/2012 | David | 0 | Team | D | , | |
| 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. | | |
| | | 1 | | | - | Also add a link for VM on the Software Web Page or | | |
| | | | | | | Developers web page? | | |

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| Task# | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | Estimate | A&E crib; script; suite; UG; DevG; Qref; AdmG |
| | 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. Hannes | 6/1/2012 | Bob Ergun - Colorado U | 1 | Emmanuel | Will discuss with David 6/18. All changes need to be approved by John Bonnell (very busy with RBSP at the moment). | | |
| 4153 | maintenance of gmag stations "Exclude List" | 10/11/2010 | David | 0 | Hannes | Exclude List to be updated week of 6/11/2012 | | |
| | 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 | | |
| | quality flag for FGM data. Dependencies on Ben's tasks 3093 and JWL's tasks 4142 and 2266. | | Vassilis | 2 | Hannes | quality flags for FGM data: Hannes talked to Ferdinand and 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 on the spin fit timing. | | |
| | This is getting a bit out of hand I think. How about a configuration file? The software just reads keywords from a configuration file. With such a configuration file it is possible to set keywords automatically (for the scientists) but additionally it would give us the possibility to keep track of what the software does automatically. When I do calibrations I can then save the configuration file together with the results and not worry about the things that the software might have done automatically. | 5/10/2010 | Hannes | 3 | Hannes | Hannes sent out new version for review. | | |
| | 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 | | |
| | Resolve duplicate/conflicting remove_zeros procedures | 6/8/2012 | Lydia | 1 | Aaron | | | |
| | 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. | | |
| | 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. | | |

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| Task # | Task Description | Date Opened | Reported By | Pri | Assigned To | | Estimate | A&E crib; script; suite; UG; DevG; Qref; AdmG |
| | thm_load_fgm does not throw error for invalid probe, only prints a messageshould 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. | | |
| | 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 | |
| | 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 | |
| | 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 | | | | | | | |
| | 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 | | | |
| | 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. | | |
| | 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 | |
| 4641 | thm_ui_part_getspec_options.txt: | | | | | | | |
| | I think perhaps the testscript needs to be revised as it seems a bit out of date in places, and also a little confusing sometimes. | 5/30/2012 | Lydia | 1 | Aaron | | | |
| | 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. | | 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 | | | |
| 4646a | 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 | 5/31/2012 | Pat | 1 | Aaron | | | |
| | and easy to fix. | | | | | | | |

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| 4646b | 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 | | <u> </u> |
| 4646c | 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 | |
| 4543 | Axis options: With "bound autoscaling" or "floating center w/ span", allow units other than seconds for a time axis. | 3/14/2012 | Pat | 2 | Aaron | Floating center/span not very useful; probably exists only because SPLASH had it. Perhaps it could be removed? | 1-4 hrs 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 cut 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 ¹ calibrations. | 7/27/2011 | Pat | 2 | Aaron | On hold till the SST calibrations have found wider use. | | |
| | 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 | | |
| 4612 | GOES 2008 Data | 4/20/2012 | Andrei Runov | 0 | Jim L / Ben | Jim to sent email to Howard - on hold until data arrives. Email sent on xx/xx/12. | | |
| 4027b | Reprocessing GOES Data | 4/5/2010 | Tami - SPDF | 3 | Ben | Reprocessing on hold until Howard Singer delivers another batch of binary GOES data files. In conjunction with task 4612. | | |
| 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) | | |
| | production cron job | 2/22/2010 | Jim L | 1 | Ben | | | |
| | 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 - Ephemerus Manuel Processing after outage's of any sort | 5/21/2012 | Jim L | 1 | Ben | | | |
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| Task # | Task Description | Data | Reported By | Dei | Assigned To | Notes | | A&E crib; |
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| Task# | rask Description | Date Opened | керопеа ву | Pri | Assigned 10 | Notes | Estimate | script; suite; UG; DevG; Qref; AdmG |
| 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. | | |
| 4638 | I think that section 3.1.2 of the admin guide is wrong. That is the old system, but I'm pretty sure that Bryce replaced this with something new. Jim L or Bryce would know. | 5/30/2012 | Pat | 1 | Ben | | 2-4 hrs | |
| 4635 | It looks to me like the administrator's guide is out of date. For the table that lists which machine each script runs on, it lists the pre-VM machine name, not the post-VM machine name. For example, for overplot.ksh, is lists | 5/29/2012 | Pat | 1+ | Ben | | 3-5 hrs | |
| 4625 | For THEMIS code, we generally don't use thm_ prefixes on everything, only for those routine names that would otherwise be to generic (e.g. thm_load_fgm versus load_fgm, or thm_cotrans versus cotrans). I think the best way to handle this is to call out the issue in the developers guide — that it's the programmer's responsibility to ensure they're not duplicating routine names that already exist in the repository, avoid overly-generic names that might conflict with completely unrelated packages, and use mission-specific prefixes where it makes sense to do so. | 5/14/2012 | Jim L | 1+ | Ben | | | |
| 2046 | Create a more efficient & productive prototype QA Instrument Command Line Script - first template (s) functional blocks then scripts for FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag, State, SST, ESA | | Jim L | 2 | Ben | Save v7.0 templates and saved files. | | |
| 4455 | Developer's Guide - Plug in Section - How to do, QA, Suites, Scripts, watch out fors (like erg) | 3/21/2012 | Jim L | 2 | Ben | in progress | | |
| 4532 | Developer's guide update re: "touched" properties, standard way of tracking which settings were changed at user's request. | 2/27/2012 | Pat | 2 | Ben | with 4455 | | |
| 4214 | THEMIS Pipeline proof of concept regression tests | | | | | On hold, after QA. | | |
| 4214e | GMAG | 3/23/2011 | Jim L | 2 | Ben | | | |
| 4214f | AE Index | 3/23/2011 | Jim L | 2 | Ben | | | |
| 4214g | į į | 3/23/2011 | Jim L | 2 | Ben | | | |
| | mosaics summary plots | 3/23/2011 | Jim L | 2 | Ben | | | |
| 42 141 | Cindy | 3/23/2011 | Jim L | | Ben | | | |

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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 ??? | | |
| 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? 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) | | |
| 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. | | |

| Task # | Took Deparimition | Data | Demonted Dir | D-i | Assistant To | Notes | | A 0 F. orib. |
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| | Task Description | Date Opened | Reported By | Pri | Assigned To | | Estimate | A&E crib; script; suite; UG; DevG; Qref; AdmG |
| | 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 and ESA energy table updates. Probably will have to wait until NuStar launch/EOC. | | |
| 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 | | |
| | Put one probe in accumulate mode and verify correct L0->L1 and L' >L2 processing with live data. | 6/12/2011 | Jim L | 1 | Jim L | | | |
| 4142 | issue with FGS processing - timestamps | 9/30/2010 | Vassilis | 1 | Jim L | not trivial | | |
| | | 10/16/2009 | Jim McFadden | 1 | Jim L | see 4142 | | |
| | Discuss thmsoc_dp_current deployment process, avoid unintended updates from trunk | 1/5/2012 | Jim L,David | 1 | Jim L | After QA, review CDF "software version" requirement with SPDF. | | |
| | <u> </u> | 12/14/2011 | Vassilis | 1 | Jim L | No code changes required. Document on web site (anomalies/watch out fors) as something to be aware or | | |
| | Modify ESA packet loading code to use standard spinmodel routine rather than deprecated ASCII files. | | Jim L | 1 | Jim L | After TDAS 7.0. | 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 - someone else to do development | | Vassilis | 1 | Jim L | quality flags for FGM data: Hannes talked to Ferdinand and suggests some flags in the state CDF: times when eclipse | | |
| 4034a3 | | 11/22/2010 | Vassilis | 1 | Jim L | Tips of the Month at some point? | | |
| | Ferdinand P. suggests that we make available a diagnostic quantity produced by the eclipse spin modeling procedure. Add "phase" diagnostic quantity (from eclipse spin modeling process) to L1 STATE CDF, to give end users a sense of the expected angular error in the eclipse spin model. | 5/23/2011 | Ferdinand | 1 | Jim L | | 1-3 days | |
| | 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 - | , | |
| | "Add support to thm_cotrans, ssl2gse, and ssl2dsl for /pseudo_dsl keyword. If keyword is present, look for and apply eclipse delta_phi corrections as appropriate." | 6/1/2010 | Jim L | 1 | Jim L | thm_load_fit and thm_load_mom, add keyword. In progress - Will review code Davin checked-in concerning tensor quantities in thm_load_mom. | | |
| | cross-check SST psir6 and psif data types for excess counts in psir6 | | 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 | | |

| Task # | Task Description | Date | Reported By | Pri | Assigned To | Notes | | A&E crib; |
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| | · | Opened | . , | | | | Estimate | script; suite; UG; DevG; Qref; AdmG |
| 4030c | If scripts change - make changes to processing scripts | 5/17/2010 | Jim Lewis | 1 | Jim L | 4030a prerequsite | 4-5 days | |
| 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-E | 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 | | |
| 4286 | 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 | , | | | , | | | |
| | 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. | | |
| 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 | Ops Team, | 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. | | |
| 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) | | |
| 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 | | | |

| | | | | | | Take : | | |
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| Task# | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | Estimate | A&E crib; script; suite; UG; DevG; Qref; AdmG |
| 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\IDLT706\Iib\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 | | |
| | 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 | | | |
| 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 algorithn 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 samitime. **Send old code to Pat ** | 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 ssme to be more stable 9/23/11: 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. | | |
| 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. | | |

| Task# | Task Description | Date | Reported By | Pri | Assigned To | Notes | | A&E crib; |
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| I dSK# | rask Description | Opened | Reported By | | Assigned 10 | Notes | Estimate | script; suite; UG; DevG; Qref; AdmG |
| 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 | | | Q.o., A.ume |
| 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 | | | | | | | |
| 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 the 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. | | |
| | New data product, AE index from THEMIS+std sites | 1/9/2012 | Vassilis | 1 | Lydia | awaiting Russian data | | |
| | 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. | | |

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| Task# | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | Estimate | A&E crib; script; suite; UG; DevG; Qref; AdmG |
| 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. | | |
| 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). | 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 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 | 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 | | |

| Task# | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | Estimate | A&E crib; script; suite; UG; DevG; Qref; AdmG |
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| 4409 | AE Stations: I am interested in including the "standard AE ground stations" i.e. the ones that go into the computation of the AE index-there are 12 - into the THEMIS pipeline. This is because we can then include them into the computation of our own pseudoAE. They include: FCC: Fort Churchill, LRV: Leirvorgur, a couple in Russia and one in Scandinavia etc. They should be available somehow. The ones in Russia have been made available through APL, and THEMIS has contributed to their refurbishment. I think we have established communication with APL's Kazue Takahashi and he said a couple of years ago that routine delivery of the Russian stations was impending. So by now they should be 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 Kyoto. | 10/19/2011 | Vassilis | 2+ | Lydia | | | |
| 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 | | |
| 44091 | 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. | | |
| | Need capability to read in ASCII, CDF?, . IDL has a built in widget to specify ASCII formats. | 11/21/2011 | Oldie | 2 | Lydia | Also assigned to Pat. See Vassilis's files for Ascii and cdf's only analysis | | |
| | 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 | | | |
| | 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). | | |

| Tecles | Tools Day!4! | Det- 1 | Damant I D | P | A | Notes | | A O C |
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| Task# | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | Estimate | A&E crib; script; suite; UG; DevG; Qref; AdmG |
| | 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 | |
| | Received the following error while loading a themis document that tested replay of data processing events: "Add called without tplot variable" It looks like the replay failed to perform a join operation or a variable I had split and re-joined. | 6/4/2012 1 | Aaron | 1 | Pat | | | |
| 4516 | Can't save ISTP or WIND config params from GUI | 2/14/2012 | Ben | 1 | Pat | Changes persist in current session, need to write to config file & read same config file before loading ISTP or WIND data. Formerly QA130. | 1/2 - 1 day | |
| 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 | |
| | 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 | |
| | 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 | | | |
| | 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 | | |
| | 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 | Reported By | Pri | Assigned To | Notes | | A&E crib; |
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| iask# | rask Description | Opened | Reported by | | Assigned 10 | Notes | Estimate | script; suite; UG; DevG; Qref; AdmG |
| 4267c | Write code to remove proton and electron contamination from the electron and proton distributions using data and efficiencies from the F $\&$ O channels. | 6/27/2011 | Pat | 1 | Pat | Working on noise removal, etc. | | |
| 4627d | 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 ** | | |
| | 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. | | |
| | IDL and Mac OS "Lion" compatibility issues | | | | | | | |
| QA008 | Lion IDL 7 crashes when trying to add directory to the IDL path in IDLDE | 1/19/2012 | Lydia | | Pat | Can work around by setting IDL_PATH externally | | |
| QA010 | Lion: IDL 6.4 (PowerPC application) not supported | 1/20/2012 | Lydia | | Pat | But there's a non-PowerPC version that works. | | |
| | I was having some trouble getting the mouse click feature to work with the various tplot functions in TDAS after upgrading to a new system running the Lion OS. After poking around a bit it looks like there are a couple X11 settings that need to be changed to allow clicking of tplot windows (such as when using the tlimit command). In X11 preferences I enabled the following: Input: Emulate three button mouse Windows: Click-through Inactive Windows After enabling those I was able to click on tplot windows again. Just passing along the info in case there are others who may experience this issue. | 9/30/2011 | Justin Lee - UCLA | 1 | | Pat: This looks different than the instructions that we have in the quick reference guide. I think that we may need a new set of instructions for newer macs. Lydia: Justin's workaround seems OK. Add to quick reference guide and users guide. | | |
| QA175 | GUI Export to image: EPS plots sometimes look a little different than on-screen or bitmap output for plots with rapid changes | 2/29/2012 | Lydia | | Pat | Small wiggles in bitmap plot exaggerated in EPS output, all OS-es. Report to IDL support, may need to send TDAS zip file and instructions to reproduce. | | |

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| Task# | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | Estimate | A&E crib; script; suite; UG; DevG; Qref; AdmG |
| QA228 | I've been having some problems running the gui on linux. I think it is most likely an issue with my machine or java/eclipse versions, but I thought I'd report it in case other people had seen similar issues. If I am testing things in the gui and then type something in the IDL commandline (eg print, 'test'), IDL takes a long time to respond (sometimes minutes). This is happening when the main gui window is open, but there are no panels open and no processing in progress. When I was first checking things on the mac with lion I noticed similar problems. This is a new problem on linux, which is why I think it may be related to updates to my machine. | 3/7/2012 | Lydia | | Pat | Only occurs under idlde, possibly a java or eclipse version issue. | | |
| QA241 | Slices: Step 3j) (possible bug) 2-d interpolation fails. | 3/12/2012 | Lydia | | Pat | THM_PART_SLICE2D(766): 2D Interpolation failed due to an error in an underlying IDL math routine. Aaron to expand warning message. Root cause is an IDL internal issue, main task list & report to IDL tech support. | | |
| 4511 | IDL "out of memory" errors when running TDAS under IDLDE | 2/14/2012 | Ben | | Pat | Java virtual machine memory limit? Identify platforms/IDL versions where this occurs, send bug report to IDL developers. Add note to users's guide if deemed necessary. | | |