| Task # | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | Estimate | A&E | Crib | QA Suite or Script | UG | Qref | Adm Guide |
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| | To be Assigned or Discussed | : | | : | } | | - | | | | | | |
| 4231 | | | } | | | | | |] | | | | |
| 4232 | | | | 1 | | | | | | | | | |
| 4233 | | | | | | | | | | | | { | <u> </u> |
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| 4235 | | | | | | | | l | 1 | | | | |
| | General | | | | | , | | | | | | | 1 |
| | Davin's commits review | | | 1 | | | | | | | | | <u> </u> |
| | 8630 | 5/2/11 | | 1 | | sent Davin email on 5/2/11 | | |] | | | | |
| 4043 | Paper on interdependentcies of FGM and STATE Reprocessing | 4/19/10 | Pat | 1 | Jim L | David - Put Paper into themis doc format | | | | | | | |
| | Check with Jon Loran further about a THEMIS SVN read only SSL account for IUGONET and ERG | 12/16/10 | David | QA | David | On Hold | | | | | | | |
| QA203 | Put links to the ERG and IUGONET web sites on the themis website | 12/16/10 | David | QA | David | sent ERG and IUGONET folks email | | | | | - | | |
| 447 | Save THEMIS document: Attempting to save to a read only file in Windows outputs the correct error message, but IDL crashes immediately afterwards. | 2/24/11 | Team | 1 | David | IDL Error report to ITT | | | | | | | |
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| | Harald | | | | , | , | | | | | | | |
| ********** | L1's and mosaics are up-to-date and available through March 31, 2011 | | ! ! ! ! | ļ | Harald | | | | | | | | |
| | Thumbnail Data: | | | | Harald | Updates ready 7-10th of the next month | | | | | | | |
| | - cdf files done until February 2011 | | | ļ | | | | | ļ | | | | |
| | - overview plots done until February 2011 - movies done until April 30, 2010 | | | ļ | | | | | | ļ | | | |
| | Full-resolution raw data: | | | | Harald | | | | | | | | |
| | - complete for 2007, 2008, 2009 - Up to date and complete until April 2010 | | | ļ | | | | | | | | | |
| | Full resolution data: | | | | Harald | | | | | | | | |
| | - data cdf done for all 2007 and 2008 and up todate and complete through April 2010 | | | | | | | | | | | | |
| | - keogram cdf done for 2007-2008, 2008-2009 and up to date and complete through April 2010 | | | | | | | | | | | | |
| | Web site mosaics and movies: | | ļ ļ | ļ | | | | | | | | | |
| | - Mosaics and movies reprocessed for 2007/2008 and 2008/2009 seasons | | | | | | | | | | | | |
| | - Mosaics and movies up to date until April 30, 2010 | | | | | | | | | | | | |
| | Web site overview plots with full resolution data: - overview plots done for 2007-2009 and until April 2010 | | | ļ | | | | | | | | | |
| 2069d | UCLA – mirror site set-up | | Vassilis | 1 | Harald | UCLA has 2-1TB and 2-2TB bricks. | | | | | | | |
| 20030 | OOLA - Illinoi site secup | | Vassilis | ' | Tiaraid | OCEA has 2-110 and 2-210 blicks. | | | | | | | |
| 4450 | Hannes | | | | | | | | | | | | |
| 4153 4018a | maintenance of gmag stations "Exclude List" New Calibration FGM parameters and spin axis offsets | 10/11/10 5/10/10 | David Hannes | 0 | Hannes Hannes | Exclude List updated 4/15/11 offsets sent to instr scientists; email from Braunschweig: Karl-Heinz will produce new Artemis calibration files after the Easter Holidays. | | | | | | | |
| 4080 | Attitude Determination next few months | 6/21/10 | Hannes | 1 | Hannes | Attitude determinations to resume, results should be | | | | | | | · |
| | Ferdinand sent was an attempt on his part to automate the shadow processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it up with him once you have gone through it. | 4/14/10 | Vassilis | 1 | Hannes | available ~2 weeks Waiting for feedback from Ferdinand about state of inner probe eclipse models, long & short eclipse models | | | | | | | |
| | GSE-GSM | 10/11/10 | Vassilis | 1 | Hannes | short eclipse models | | | | | | | |
| | 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. | 5/10/10 | Hannes | 3 | Hannes | Hannes sent out new version for review. | | | | | | | |
| 2074c | quality flag for FGM data | | Vassilis | 3 | Hannes | on hold | | | ļ | | | | |
| | Spin modeling during shadows BugZid=43 | | Vassilis | 3 | Hannes | Jim L to write routine. Hannes send | | | | | | - | |
| | | | | | | info. | | | | | | | |

| Task # | Task Description | Date Opened | Reported By | Pri | Assigned | Notes | : | | | OA Suite | | | Adm |
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| | Aaron | | | : | } | | 1 | | | | | | |
| | Create Checksum of UCB ASI files shipped to UCLA and compare with the UCLA checksum file | 5/3/11 | David | 1 | Aaron | | | | | | | | |
| | Davin's commits review 8622, 8626 | 5/2/11 | David | 1 | Aaron | | | | | | | | ļI |
| 4227 | Create Checksum file for UCB files sent to UCLA and sort out method to compare UCLA and UCB data cheksum files | 5/2/11 | David | 1 | Aaron | | | | | | | | |
| 2013 | 2-D Slices | | Vassilis | 2 | Aaron | | | | | | | | |
| 2013af | Mark one count level (dashed line) | | Vassilis | 2 | Aaron | in progress | | | | | | | |
| 4204 | The enhancement for QA 156 is to add a "lazy ytitles" option to the | 3/2/11 | Pat | 2 | Aaron | | | | | | | | |
| | GUI. This means that a ytitle that has separators like spaces or underscores will have newlines inserted in their place so that long titles can fit in crowded layouts. This is a standard command line feature. | | | | | | 2 days | | | | | | |
| QA076a | SST Test Suite: (Feature) Reports that default labels are cluttered. Specifically, sst_en_eflux y-label is long, & the content of the label is more appropriate for the z-axis. I agree, but making the defaults work better will take some effort. | 2/3/11 | Pat (from Michael) | 2 | Aaron | see 4204 | | | | | | | |
| 4012 | When Cindy & I tried to load tha_eff on 2007-03-23, it didn't load and said some calibration quantity couldn't be found. When I tried to load the same thing, I didn't have a problem. So the trick would be to find out what changed from my computer to Cindy's computer and to figure out how often our user's computers are going to have the same problem that Cindy's computer had. | 3/22/10 | Pat | 2 | Aaron | Jim M: I have no trouble with EFF data either for linux or windows. | 4-6 hrs | | | | | | |
| 3014 | We don't have support for filled symbols. This means symbols are only outlines. | 12/11/09 | Pat | 2 | Aaron | | | | | | | | |
| 3031 | GÜI Overview plots sometimes have diamond shaped artifacts in the sample rate bar. Should fix. | 1/5/10 | Vassilis | 2 | Aaron | This is a side-effect of the a way that symbols are used as a hack to generate the sample rate bar. Fix after 3014 is fixed. | 1/2 day | | | | | | |
| QA038 | Windows - Layout option | 1/21/11 | Christine | 2 | | | | | | | | | |
| QA038a | 6.a) I forgot to click Add to make new panels for each spacecraft's data and thus ended up with all data on one panel. The only way to fix this, that I saw, was to delete all the data and then start over, making sure to add a panel before selecting each dataset. As a user, I feel there should be an option to move data from one panel to | 1/21/11 | Christine | 2 | Aaron | checkbox - toggle | 1-2 days | | | | | | |
| | another without having to remove it and select it again. For instance, we should be able to click and drag a piece of data from one panel to another panel. | | | | | | 1 2 days | | | | | | |
| QA038c | 6.f) When the 5 panels have been made of the data, the type of data in each panel is labeled but the spacecraft is not included in the label. You only know which spacecraft is represented if you hover your mouse over the panel. I think the panel should have the sc label, especially for printing purposes. | 1/21/11 | Christine | 2 | Aaron | come up with how to fix options with level of effort | | | | | | | |

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| QA038d | REALLY don't like how when you select the dependent variable, the window slides over to center it. I want it to stay wehre it was unless I slide the window myself. Otherwise I'm constantly sliding it back to the left in order to see which variable I want to select. | 1/21/11 | Christine | 2 | Aaron | fix only for windows | | | | | | |
| | 10.c,d) If you change the panel row number, you have to also change the panel row number to which you are changing it to. Ex. 10.c) asks to select the 3rd panel and click the up arrow key twice, and click apply. You can't do this unless you ALSO select panel 1 and click the down arrow key twice. Same for 10.c and dYou can't apply panel 3 to row change to 5 unless you change 5 to some unused row number. Should this be automated? If not then at least the suite's directions should be altered. | 1/21/11 | Christine | 2 | Aaron | alter test suite and resolve for simple case - talk to Christine | | | | | | |
| QA038h | 10.h) If you don't click cancel, but apply it and hit ok and go back to manually change it back to the original plot, the plot keeps the same width for each panel as when there were 3 columns, even now there is only 1, so each panel is very short instead of being its full, one-column size. This shouldn't be the case. | 1/21/11 | Christine | 2 | Aaron | analysis - for discussion with level of efforts | | | | | | |
| | When importing a variable with a valid 'V' component in its data struct, but no spec flag set in its meta data, the loaded data object fails to load the y-axis. This should be fixed, as it ends up incorrectly loading certain spectral quantities. | | Pat | 4 | Aaron | | | | | | | |
| | When thm_load_fit is called requesting a single data type it will also return some auxiliary data types. For example: thm_load_fit,probe='b',datatype='fgs' returns: 1 thb_fit_code 2 thb_fit_npts 3 thb_fgs. load bug or test script bug) b. The relpathnames all keyword is broken. | | | 4 | Aaron | | | | | | | |
| 2028 | Variable units – generic solution - thm_load_spin, _state, _hsk, _sst, _esa, _bau, _fgm, _fbk, _fft, _fit, _scm, _efi, _trg, _asi, _gmag, _ask, _mom, _esa_pkt | | Vassilis | 4 | Aaron | | | | | | | |
| 2029 | From Hannes | | Hannes | 4 | Aaron | | ÷ | | | | | |
| 2029a | Provided is the most common plot used by scientists that look at | | Hannes | 4 | Aaron | | | | | | | |
| | The level 2 CDF files at http://themis.ssl.berkeley.edu/data_download.shtml should contain position in various coordinate systems as well. Preferably in the same resolution as the data. Otherwise Scientists need to get the position from another source. Notes from Vassilis: option to introduce the data in RE with keyword (one RE =6,478 kilometers ???). Like thm_load_fgm /pos_units= 'RE'. Also thm_load_state keyword out_coord = 'GSM', 'GSE',etc. | | Hannes | 4 | Aaron | | | | | | | |
| | If one loads fgm data from probe 'a' and let's say there are no data for the chosen interval. The variables tha fgl and tha fgl gsm etc. should all be empty. It could be those variables still contain data from the previously loaded interval. | | Hannes | 4 | Aaron | | | | | | | |
| 2030 | upgrade thm_load to work with probe assignments | | Vassilis | 4 | Aaron | | | | | | | |
| 2031 | move functionality of thm_load_state2 into thm_load_state and delete thm_load_state2 | | Vassilis | 4 | Aaron | | | - | | | | |
| 2032 | Multiple enhancements concerning keywords, valid_names and thm_load routines | | Vassilis | 4 | Aaron | | | <u></u> | | | | |

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| 2013w | Integrate our own slicer3.pro gui with regular 2-D slice plots. | | Vassilis | 4 | Aaron | on hold | 2 days | Υ | Υ | Y | Υ | | |
| | Cindy | | · | · · · | | , | | | | | | | |
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| | New Programmer | | | | , | | , | | | ļ | | | |
| | Document: Administrators Guide | 3/1/11 | David | 1 | tbd | 50% time | | | ļ | ļ | | | |
| | THEMIS Pipeline proof of concept regression tests | 3/23/11 | Jim L Jim L | 1 | tbd tbd | 50% time | ļ | | } | | | | } |
| | VC->L0 L0->L1 | 3/23/11 3/23/11 | Jim L | 1-1- | tbd | | ļ | | } | | | | { |
| | empermeris->state v00 | 3/23/11 | Jim L | 1 | tbd | | | · | | | | | } |
| | Create a more efficient & productive prototype QA Instrument | 0,20,11 | Vassilis | 1 | tbd | In progress. Several templates | | | | | | | } |
| | Command Line Script - first template (s) functional blocks then scripts for FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag, State, SST, ESA | | | | | created, selecting the appropriate command line routines to test. | | | | | | | |
| 2175 | L2 File Definitions Document | 3/1/11 | David | 2 | tbd | | | | | | | | |
| 4214 | THEMIS Pipeline proof of concept regression tests | | | | | | | | | | | | |
| 4214c | | 3/23/11 | Jim L | 2 | tbd | | | | 1 | | | | } |
| 4214e | GMAG | 3/23/11 | Jim L | 2 | tbd | | | | | | | | 1 |
| 4214f | AE Index | 3/23/11 | Jim L | 2 | tbd | | 1 | | | 1 | | | |
| 4214g | ASI | 3/23/11 | Jim L | 2 | tbd | |] | | |] | | | } |
| 4214h | mosaics | 3/23/11 | Jim L | 2 | tbd | | | |] | | | | |
| | summary plots | 3/23/11 | Jim L | 2 | tbd | | | |] | | | | |
| | Yuri has generated a 3 parameters for the THEMIS spacecraft L,L*,Mlat. These parameters are very useful scientifically. The task | 1/19/11 | Yuri Shprits | 2 | tbd | | | | | | | | |
| | would be to archive these parameters in CDF and add a load routine in TDAS to read them. Currently, the data will be made available to us by Yuri via tab separated ascii files. | | | | | | | | | | | | |
| 2149g | write a routine to check time tag monotonicity and repair tplot variable if necessary (with options for "replace with NaN" and "delete") | | Jim L | 2 | tbd | Create a routine to clean up tplot variables. Use in the load routines were susecptible. Recommend that we just remove what is needed to make the time tags monotonic, and issue a warning indicating that the user should consult the THEMIS software team about that data. | | | | | | | |
| 2149h | integrate time tag fixer-upper with TDAS load routines | | Jim L | 2 | tbd | | | | | | | | |
| 4135 | Now that the L1 ESA/SST/MOM reprocessing is underway, these CDFs will soon contain the full ESA and SST configuration words, in addition to the solar wind flags, sweep modes, and so forth. With the full configuration data available, if someone wants to use a property of these instrument configurations that's not already present as a L1 variable, we don't need to reprocess L1 to add it we just write a little more code for TDAS, to extract the new attribute from the configuration data that's already present. | 9/10/10 | Jim L | 3 | tbd | | 2-4 hrs | | | | | | |
| 4135a | Write some TDAS routines that take an apid and a configuration word, and return a structure with all the relevant properties of that configuration. This is basically reimplementing some logic that's already in the L0->L1 processing code (written in C). If anyone ever needs other attributes of the instrument configuration (for example: the angle maps corresponding to each configuration), we would update these routines to return the additional information. | 9/10/10 | Jim L | 3 | tbd | | | | | | | | |

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| 4135b | In the load and/or calibration routines for ESA, SST, MOM: rather than using the ESA solar wind flags and sweep mode from the L1 CDFs, use the ESA full configuration instead (which is present in all three L1 types, for convenience), and use the routines from 4135a to extract the solar wind flags, sweep mode, and any other useful attributes. I think SST does not have any configuration flags similar to the ESA quantities (there's the attenuator status, but that's separate from the instrument configuration word), but it needs them in the future, they should be handled the same way as ESA (extract from SST configuration word instead of adding L1 variables). I can do this, but if the routines from part (a) are well-documented, any of us could probably do this part. | 9/10/10 | Jim L | 3 | tbd | | | | | | | | |
| 2078 | bau_sunpulse_met assumes x86 endiannes (BugzID=13) | | Vassilis | 3 | tbd | | | | | | | | |
| 4027b | Reprocessing GOES Data | 4/5/10 | Tami - SPDF | 1 | tbd | Reprocessing on hold until Howard Singer delivers another batch of binary GOES data files. | | | | | | | |
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| | Jim L | | : | | | | | | | | | | |
| 4034a | Ferdinand sent was an attempt on his part to automate the shadow processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it up with him once you have gone through it. | 4/14/10 | Vassilis | 0 | Jim L | | | | | | | | |
| | Option1) Just to recap: it will be more difficult than I thought to support switching between the default spin model and the eclipse spin model from F. Plaschke et al. It can't be implemented as a simple correction to the default model — I would have to introduce a whole new set of variables in the L1 STATE CDF, duplicating the existing set of spin model variables, to be able to switch between corrected and uncorrected models. And eventually, we'll probably end up using the corrected model exclusively, so we'd end up with a lot of unused variables cluttering up the state CDFs. | 4/16/10 | Vassilis | 0 | Jim L | TDAS side - select on the fly to get the correction or not (keyword) - can build both standard and eclipse spin models from new state CDFs, keeping changes out of trunk until I get back from vacation | 5 days | Y | Y | | | | |
| | Code modifications: 1. Add keyword "use_eclipse_corrections" to spinmodel_interp_t (defaults to "don't use") 2. Add informational message to state whether corrections are in use or not 3. Add similar keyword & informational message to other routines as necessary (thm_cotrans, ssl2dsl, thm_cal_fgm, etc) | 11/22/10 | Vassilis | 0 | Jim L | must change everything that the calls the spin model - in progress | | Y | Υ | | | | |
| | At the moment, I have Ferdinand's eclipse spin models for THB and THC. There was some discussion about whether one of these models would also be appropriate to use for the THA, THD, and THE, but I don't remember what the recommendation was, or if that work is still in progress. The other thing I remember from our previous conversation is that they were thinking of distinguishing between "short" and "long" eclipses, and using different eclipse spin models for each situation. The models I'm currently using are "thb_modell_2.sav" (dated Jul 9 2010), and "thc_modell_2.sav" (dated Aug 20, 2010). | 4/8/11 | Vassilis | 1 | Jim L | awaiting Ferdinand to be at UCLA | | | | | | | |
| 4142 | issue with FGS processing - timestamps | 9/30/10 | Vassilis | 1 | Jim L | not trivial | 2 E dove | | | | | | |
| 2266 | Timing of Spin Fit data | 10/16/09 | Jim McFadden | 1 | Jim L | see 4142 | 3-5 days | Y | | | | | |
| | <u> </u> | | | | = | | | | | | | | į |
| | Separate E and B timestamps for spin fits: a) make a revised V02 master CDF with E and B separated b) change thm_load_fit to support V01 and V02 of the L1 CDFs c) change the L0->L1 processing code d) change the L1->L2 processing code e) test the changes, then reprocess to create the V02 CDFs (keeping the V01 files around for a while to ease the transition) | before the millenium started and when bugzilla's roam the free world | Vassilis | 1 | Jim L | Hard for SPDF to deal with, with their plotting tools - review priority with Vassilis; Check again with John Bonnel regarding timing differences between fgm and efi spin fits | 4-5 days | | | | | | |
| 4030 | cross-check SST psir6 and psif data types for excess counts in psir6 | 4/8/10 | 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. | | | | | | | |
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| 4030a | Review Onboard Scripts for possible error. | 5/17/10 | Jim Lewis | 1 | Jim McFadden, Davin, Robert Abiad | can duplicate on flatsat. Jim Mcfadden and Davin to review Jim L's email. | | | | | | | |
| 4030b | Correct Existing Data | 5/17/10 | Jim McFadden | 1 | Jim L | 4030a prerequsite | | | | | | | |
| 4030c | If scripts change - make changes to processing scripts | 5/17/10 | Jim Lewis | 1 | Jim L | 4030a prerequsite | | | | | | | |
| | "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." | 6/1/10 | 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. | | | | | | | |
| | 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-B ESA, after time 15:58:40.695 are of a different resolution and the data values are either 0.0 or -NaN. | 2/7/11 | Tami | 1 | Jim L | Web Site - instruments will have a web page with "Sources of Data Anamolies". The first one being the ESA issue | | | | | | | |
| | Each of us should probably take a look at all the shell scriptswe're responsible for, scrub them for issues like this, and in the case of jobs running on gaia (and any other hosts that were recently upgraded), check the recent processing logs to make sure any failures are not signs of these or other incompatibilities. | 3/11/11 | Jim L | 1 | Jim L | | | | | | | | |
| | 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: | 9/10/09 | Jim L | 2 | Jim L | | 2 hrs | | | | | | |
| 4022 | Update L1 master cdfs to support SPDF hosting | 3/25/10 | David | 3+ | Jim L | I think 4022 is a an end-of-mission task: basically clean up all the L1 CDFs, so they are fully ISTP compliant and as compatible as possible with SPDF's tools. But "ISTP compliant" is a moving target — they keep adding new checks to the SKTEditor software — so I think we made a task to do one final cleanup and reprocessing at the end of the mission, as opposed to reprocessing every time they introduce a new SKTEditor check that renders our L1 files non-ISTP-compliant. So 4022 = final end-of-mission adjustments to master CDFs, 4023=final reprocessing. Both should remain open, with no immediate action required as far as I know. | | | | | | | |
| 3093 | Automate processing of eclipse sunpulse data from FGM team | 2/22/10 | Jim L | 3+ | Jim L | | | | | | | | |

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| 4040 | Spinfits - separate E&B timestamps? | 4/15/10 | Jim L | 3 | Jim L | SPDF has issue creating plots on the L1 data with their software | | | | | | | |
| 4046 | either thm_load_fit or the GUI code that calls thm_load_fit should split the data into separate tplot variables for E and B, before importing them into the GUI data model. I think thm_load_fft already does something like this. See task 4040 | 4/23/10 | Pat | 3 | Jim L | Jim M 4/23: thm_load_fit also splits into efit and bfit variables, so unless you need to look at raw bytes, the 'fit' datatype is not needed. Pat: Agreed. Short term, excluding the data type from the GUI seems like an easy solution. | | | | | | | |
| 2082a | Spin modeling during shadows BugZid=43 | | Vassilis | 3 | Hannes | Jim L to write routine. Hannes send info. | | | | | | | |
| 2036 | GOES 10-12 Test data: h. update labels (Howard's request - minor tweak) | | Vassilis | 3 | Jim L | determine if to be reassigned | 3-4 days | | | | | | |
| 2038 | STATE Web Page (s) | | Vassilis | 3 | Jim L | review web pages | | | | | | | |
| 2039 | bad timing sun pulse times (early January 2009) | | Vassilis | 3 | Jim L | Clarification needed | | | | | | | |
| 2040 | L1 Data Processing History Info: SCM, EFI, STATE | | Vassilis | 3 | Jim L | | | | | | | ļ | |
| 2043 | Refactor repeated CDF library code in CDF processing tools BugZid=50 | | Vassilis | 3 | Jim L | | | | | | | | |
| 2077 | Non Monotonic timestamps. BugzID=72 | | Vassilis | 3 | Jim L | | | | † | | | | |
| 2047 | task 2047 in my name: "Seperate E and B timestamps for spin fits", which is also a change to the L1 FIT master CDF and associated TDAS code. But unlike the spacecraft potential enhancement (which only adds new CDF variables, and is more-or-less backward compatible), 2047 would require us to bump the L1 FIT CDF version number to V02, and produce both V01 and V02 for a while, so users of TDAS 5.20 and earlier will still be able to load L1 FIT data. So I'm not sure whether the spacecraft potential task should include 2047, or not. | 3/2/10 | Jim L | 4+ | Jim L | | | | | | | | |
| 4075 | describe the FBK data type, time tag specified to correspond to the beginning of the time interval of the data that went into the FBK data, the middle, or the end, or is that unspecified, and what's happening here is that the time tagging is being changed in year 3+ of the mission - in the L1 file definition document, at least, does not define the time-tagging conventions to this level of detail. | 6/11/10 | John Bonnell | 4 | Jim L | | | | | | | | |
| 4023 | Before EOM reprocess L1 cdf's due to master cdf changes for SPDF | 3/25/10 | David | 4 | Jim L | | | | | | | | |
| 2080 | Phantom packets" cause non-monotonic distribution times. BugzID=25, low priority. | | Vassilis | 4 | Jim L | | | | | | | | |
| 2081 | Evaluate CDF compression algorithms BugZid=81 | | Vassilis | 4 | Jim L | | | | | | | | |
| 2083 | Add "last processed" time to L1 (and L2?) CDFs BugZid=115 | | Vassilis | 4 | Jim L | | | | | | | | |

| Task # | Task Description | Date Opened | Reported By | Pri | | Notes | | | | QA Suite | | | Adm |
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| | | | | | То | | Estimate | A&E | Crib | or Script | UG | Qref | Guide |
| 2084 | transforming one data point from SM coordinates to GSM coordinates. ct=time_double('2008-02-16/04:50:00') dipole=[[0],[0],[1]] v=[1,2,3] store_data,'dipole_sm','data={x:ct,y:dipole,v:v} cotrans,'dipole_sm','dipole_gsm','SM2GSM cotrans,'dipole_gsm','dipole_gse',/GSM2GSE get_data,'dipole_gse',data=dipole_gse xdipgse=dipole_gse.y[0] ydipgse=dipole_gse.y[1] zdipgse=dipole_gse.y[2] tilt=atan(xdipgse,zdipgse) When I check the data for 'dipole_gsm', the values are 0,0,0. I'm not sure what they SHOULD be, but I know that their magnitude should equal 1. sqrt(x^2+y^2+z^2)=1 | | Christine | 4 | Jim L | | | | | | | | |
| 4097 | cdf's with MD5 checksum | 7/19/10 | Jim L | 4 | Jim L | Jim L to send email with subtasks and estimates | | | | | | | |
| 4201 | Kyoto final data - may have different URL naming scheme | 2/2/11 | Jim L | 4 | Jim L | they are only up to 2003 in final | <u> </u> | | | <u> </u> | | | |
| | Jim M | | : | | | <u></u> | İ | | } | | | | · |
| 4228 | I was checking the data and found something unusual. I realized my data files were different than expected and double checked with my co-worker. Please, take a look if you find the same: I consider themis A and the time interval 20070911. The same problem described below repeats for the entire month | 5/2/11 | Aline de Lucas | 0 | Jim M | in progress | | | | | | | |
| | Davin's commits review | | | <u> </u> | | | | | | | | | <u> </u> |
| | 8619, 8620, 8625, 8629 | 5/2/11 | David | 11 | Jim M | | | | | | | | ļ |
| 2283b | Solar Wind moments corrected (Stephan Erickson) There is another aspect to this problem. Dead-time corrections are severe for ion ESA SW data and there are no dead-time corrections for onboard moments. Some algorithm will have to be developed that does this correction after the fact. Davin developed an algorithm like this for Wind 3DP. That algorithm may not work directly due to differences in energy sweeps, but something like it could be developed for THEMIS. Davin and I can provide some advice and direction. Similarly electron onboard moments in the SW may also need some corrections this should also be worked out at the same time. | 4/18/11 11/2/09 | Vassilis Jim Mcfadden | | Jim M Jim M | talked to Jim McFadde nwho will make dead time corrections in ground based to process onboard moments better - in progress | | | | | | | |
| 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) | | Vassilis | 2 | Jim M | not allow velocity to go bad | | | | | | | |
| 4224 | The solar wind flag variables in the files are in much better shape than before, but if you read more than one file in sequence you will come across a record here or there that is a duplicate. For your 1st date below. The record w/ time 01-01-2010 00:01:58.426 exists in both the 2009/12/31 and 2010/01/01 data files | 4/12/11 | Natalia Papitashvili GSFC - ADNET | 2 | Jim M | reported to UCB by Tami (SPDF), fix in esa and mom L2 processing | | | | | | | |
| 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 | | | | | | | | |

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| | | | | | 10 | | Estimate | A&E | Crib | or Script | UG | Qref | Guide |
| 2035 | Split L1 ESA (using Thomas's routine) in master ESA data cdf | | Vassilis | 2 | Jim L | 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 | 3/5/10 | David | 2 | Jim M | Talked to David first. | | | | | | | |
| 4003 | Document: ESA File and Calibation Processing | 3/5/10 | David | 3 | Jim M | | † | | † | 1 | | † | |
| 2088 | Themis Developers Guide | | Vassilis | 3 | Jim M | | <u> </u> | | 1 | | | | |
| 2091 | Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdfs - entire mission | | Vassilis | 3 | Jim M | | | | | | | | |
| | ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA | | Vassilis | 3 | Jim M | On Hold; awaiting Jim L to split L1 into master cdf | | | | | | | |
| 4042 | Script to run every two weeks to runs IDL TDAS and checks if a file can be loaded from THEMIS SPDF file (s) | 4/19/10 | Pat | 3 | Jim M | | | | | | | | |
| 2090 | that streamlines the generation of gmag stackplots and a crib to show how to do this. (< than a day) | | Vassilis | 3 | Jim M | | 2 hrs | | | | | | |
| 4218 | thm part moments angular restriction | 4/4/11 | Vassilis | 3 | Jim M | | İ | | † | | | | } |
| 2093 | AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: | | Vassilis | 4 | Jim M | | | İ | 1 | | | | } |
| 2094 | Overview plot change: mode bar seems thick | | Vassilis | 4 | Jim M | nothing we can do easily | ļ | | 1 | | | | |
| 2095 | Mosaic Processing - permanent script needed | | Vassilis | 4 | Jim M | | | | | | | | } |
| 2100 | EFI calibration | | John Bonnell | 4 | Jim M | | <u> </u> | - | 1 | | | | - |
| 2100d | DC offset between 4sdo and 2sdo in boom plane | | John Bonnell | 4 | Jim M | Which is better? Assigned to J. B. (low priority). | | | | | | | |
| | Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). | | John Bonnell | 4 | Jim M | On Hold - low priority | | | | | | | |
| 2100p | Modify THM_CAL_FIT to treat efs datatype - Install E12/E34 conditional based on th?_fit_code TPLOT variable. If E12 switched to E34 software needs to be revised to handle | | John Bonnell | 4 | Jim M | | | | | | | | |

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| | Lydia | | : | i i | | 1 | | | | | | | |
| | Modeling SST fluxes | 3/12/11 | Vassilis | 1 | Lydia | on hold | | ? | ? | | | | |
| 2070c | Greenland | | Vassilis | 0 | Lydia | | | | | | | | |
| | DMI data(currently available Greenland data) was never calibrated and proper calibrations are not available. Need to properly label data and make sure users don't use data improperly. | 11/23/10 | Vassilis | 2 | Lydia | in progress | | | | | Y | | |
| | We would like to incorporate the Hermanus gmag data into the THEMIS database in some form of external ground station, like the Greenland chain. Can you implement this with the help of Jiang? I think Jiang will be writing code to read and validate the reading process anyway, for his own work, soon. | 9/8/10 | Vassilis | 2 | Lydia | talk to Vassilis - Jiang did not write the code | | | | | | | |
| 4119a | Reorganize sun contamination keywords. (Add 'manual' option to method_sunpulse_clean) | 8/26/10 | Vassilis | 2 | Lydia | | | | | | | | |
| 4119b | Add 'automatic' option to method_sunpulse_clean which will sum across time range provided by user in new keyword. | 8/26/10 | Vassilis | 2 | Lydia | | | | | | | | |
| 4119c | Create a new crib that shows only a few simplified options to the users. (all_angle_median,scale_sphere,manual bin selection(for fill), automatic bin selection) | 8/26/10 | Vassilis | 2 | Lydia | 4119a and b prereq's | | | | | | | |
| 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 | 3 | Lydia | | | | | | | | |
| | | | | | | | | <u> </u> | <u> </u> | | | | <u> </u> |

| Task # | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | F-4:4- | 405 | الله ال | QA Suite | UG | 06 | Adm |
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| 4229 | Pat Davin's commits review | i | : | : | | { | : | | | | | | |
| | 8624 | 5/2/11 | David | 1 | Pat | The time_ticks changes seem harmless enough. He added new fields to the structs to support local timezones, but they haven't been implemented yet. tplot.pro and cuts.pro use this function, but I tested and they still seem to work correctly with the new modifications. | i | | | | | | |
| QA175 | FT/OT SST Channels | 3/9/11 | Vassilis | 1 | Pat | n progress, was able to meet with Davin, code needs changes to implement Davin's latest suggestions | | Υ | Υ | | | | |
| 2069 | Support Mirror Sites | | Vassilis | 0 | Pat | | | | | | | | |
| 2069a | Japan (ISAS) | | Vassilis | 0 | Pat | | | | | | | | |
| | Austria | | Vassilis | 0 | Pat | | | | | | | | |
| 2069c | France | | Vassilis | 0 | Pat | (Rumi - not always up to date for gmags) | | | | | | | |
| 2070 2070a | Support gmag data remote sites. Augsburg (MACC's) | | Vassilis Vassilis | 0 | Pat Pat | | | | | | | | |
| 2070b | Alberta | | Vassilis | 0 | Pat | | | | | | | | <u> </u> |
| 4223 | VM email from ERG folks - question | 4/19/11 | ERG | 1 | Pat | Pat is waiting for more details from the ERG team, to find out exactly what parameters to use to reproduce a problem they saw when running on the virtual machine. | | | | | | | |
| 4138c | Fire electrons through aperture perpendicular to detector surface. Determine fraction attenuated. | 9/14/10 | Davin | 1 | Pat | in testing simulations may need to be rerun- email sent to R. Lillis | | | | | | | |
| | Run simulation for fixed energy aimed at first detector(e- and p+), record energy deposited as a function of path length and projected path | 12/14/10 | Davin | 1 | Pat | Running simulations, will pass results along to Drew when ready | | | | | | | |
| | Run simulation for variety of energies for all detectors, record energy deposited as a function of path length and projected path | 12/14/10 | Davin | 1 | Pat | | | | | | | | |
| 4138f | Run simulation for range of initial positions around the full sphere. | 9/17/10 | Davin | 1 | Pat | | | | | | | | |
| | 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. | 10/8/10 | Vassilis and Davin | 1 | Pat | Pat has enough info to generate tables to send to the S/C, Davin to ask Peter Harvey for more info | | | | | | | |
| 3055 | Install Calibration parameters from Davin (replace/amend current description) | 12/18/09 | Davin | 1 | Pat | awaiting values from Davin | for #a and #b - 4-6 hrs | | | | | | |
| 3055a | Verify/Install attenuation parameters for each attenuator. There should be 8x5 = 40 parameters | 12/14/10 | Davin | 1 | Pat | | | | | | | | |

| Task # | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | Estimata | A 0 F | Crib | QA Suite | UG | Orof | Adm |
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| 3055b | Verify/Install geometric factor corrections for each aperture. There should be 8x5 = 40 parameters. | 12/14/10 | Davin | 1 | Pat | | | | | | | | |
| 4072 | Put eclipse spin model correction code in SST as already has been done for esa packet pgm | 6/8/10 | Jim M | 1 | pat | wait for SST calibrations | | | | <u> </u> | | | |
| 4068 | Lynn Wilson possible enhancements | 6/1/10 | Lynn Wilson | 1 | Pat | Review Lynn's software and generate list of features | | | | | | | |
| 4156 | Calibration of different anodes - energy efficiency | 10/18/10 | Vassilis | 1 | Pat | if Davin provides values for 3055 | | | } | | | | |
| 2060 | L2 cdf Quality Flags: for SST | | Vassilis | 2 | Pat | | | | | | | | |
| 4002 | Document: SST File and Calibation Processing | 3/5/10 | David | 2 | Pat | | | | | | | | |
| 4119a | Reorganize sun contamination keywords. (Add 'manual' option to method_sunpulse_clean) | 8/26/10 | Vassilis | 2 | Pat | | | | | | | | |
| 4119b | Add 'automatic' option to method_sunpulse_clean which will sum across time range provided by user in new keyword. | 8/26/10 | Vassilis | 2 | Pat | in progress - on hold | | | | | | | |
| 4119c | Create a new crib that shows only a few simplified options to the users. (all_angle_median,scale_sphere,manual bin selection(for fill), automatic bin selection) | 8/26/10 | Vassilis | 2 | Pat | 4119a and b prereq's | 1-2 hrs | | | | | | |
| 2285 | Christine brought to my attention a bug that occurs if you use the TDAS tsyganenko routines in a way that is not really something that I expected, but seems to be a legitimate use of the routines. If passing in a set of input parameters that are stored in tplot variables but are not in time-series, the routine produces incorrect results. | 11/4/09 | Christine | 2 | Pat | | | | | | | | |
| 4208b | Enhanced SST Instrument Web Pages | 3/5/10 | David | 2 | Pat | Talked to David first. | | | | | | | |
| | Add title support to plotxy | 8/27/10 | Christine | 3 | Pat | Turiou to Buvia mot. | - | | <u> </u> | | | | |
| 4121 | Add multi-row/column span to plotxy | 8/27/10 | Christine | 3 | Pat | | | | † | | | | |
| 3053 | 102. Tplot_gui overwrite warning when importing data, even if variable gets renamed. | 2/3/10 | Pat | 3 | Pat | | 6 hrs | | | | | | |
| 2115 | tplot does not fail gracefully after illegal margin set. In this case: tplot_options,'xmargin',[100,100], tplot does not fail gracefully after illegal margin set. In this case: tplot_options,'xmargin',[-1,-1] -tplot does not fail gracefully after illegal margin set. In this case: tplot_options,'ymargin',[100,100] | | | 3 | Pat | | | | | | | | |
| 2267 | if you want to load a template, you need to pass the template path in via a keyword, or select an option to open it from the THEMIS->File Menu. I think we should consider adding the template path to the configuration file that we save, so that it can be loaded automatically. | 10/19/09 | Pat | 3 | Pat | | | | | | | | |
| 4013 | Plot Description Doc Button | 3/22/10 | David | 3 | Pat | | | | } | | | | |

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| 2176 | I ran into a small annoyance today when loading a themis document. I had originally loaded ESA and SST data for one time period, then overwrote that data by loading the same quantities but for a different time period. I did this several times and then saved the document for later. When re-opening the document I got a series of prompts asking whether I would like to re-write each quantity. It would speed up and streamline the process in this case if data that was later overwritten is not loaded when you open the document. | 7/20/09 | Aaron | 3 | Pat | I spoke to Pat about this yesterday and we both agreed that while we cannot be sure which quantities should be re-loaded and which shouldn't (some may have been used temporarily for calculations). However, we can store the users's original choice to overwrite the data or not. So while we may not be able to save on loading time we can still keep the user from having to click multiple messages and from having to remember what they chose originally. The latter is particularly important since they may receive errors or get corrupted data if they do not choose the correct option | 16 | | | | | | |
| 2201 | One feature that was never implemented for the mini-language is globbing.(The ability to use '*' and '?' to reference multiple tplot variables at once.) This is a feature that is standard with many of our other tplot data processing routines. I think it would be very useful to include in the mini-language. | | Pat | 3 | Pat | | 40 | | | | | | |
| 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. | 2/19/10 | James Weygand | 3 | Pat | | | | | | | | |
| | Add a configuration setting "force_download", which if enabled, will download data even if the remote file is older than the local file. This comes up if you're switching back and forth between using QA data and production data; once you've downloaded QA data, it's hard to download (usually older) production data without manually removing any QA files. This should apply to all data sources THEMIS, GOES, WIND, etc. | 2/22/10 | Vassilis | 3 | Pat | | | | | | | | |
| 3065 | 68. GUI z-axis options when Fixed Min/Max selected, value in spinners does not reflect current range as it does for X and Y axes. Displayed range when spinners desensitized is inaccurate. | 2/10/10 | Aaron | 4 | Pat | chech draw object | | | | | | | |
| 4005 | The TDAS Software will be enhanced to incorporate data from the STEREO mission. | 3/8/10 | David | 4 | Pat | | 8 hrs | | | | | | |
| | add the following ancillary ground-based observations: MAGDAS Network, Auroral Electrojets (AE) and Ground Radars (SuperDarn, AMISR and Sondrestorm) | 3/8/10 | David | 4 | Pat | | 4 hrs | | | | · | | |
| 3007 | EPO-GMAG msgs: modify the script and only issue this message if > 2 days | 12/8/09 | David | 4 | Pat | | | | | | | | |

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| 2279 | How's it going with the stats? I noticed the query takes some time because it's looking at the whole table. It could be refined for specific time periods. The delay in return could be what's causing Dave to have access problems - or the SSL firewall? | 10/23/09 | Tim | 4 | Pat | see 2277 | | | | | | | |
| 2135 | I didn't realize the cotrans messed up the velocities for earth centered coordinates. Maybe what we really need to do is modify cotrans so that it correctly transforms velocities. Users can incorrectly transform velocities just as easily using thm_cotrans on the command line, as they can using the coord keyword. | | Pat/Jim L | 4 | Pat | | | | | | | | |
| 2124 | I loaded a plot which had the line color as white. Because the legend plots in the same color as the line, the legend text did not show up. We should probably just put in a check for this case. If the line is white and the background is white then draw the text in black | | Pat | 4 | Pat | | | | | | | | |
| 2063 | Problem with edit3dbins is being caused by IDL's mouse system variable not being updated correctly on Macs. The ctime procedure, used to interactively select a time from a tplot window, relies on this variable to determine when a selection has been made in the tplot window. If the variable is never updated then ctime gets caught in an infinite loop. It's unclear whether this is specific to a particular OS version, but the routine should probably be modified at some point to maximize compatibility with Macs. In the meantime the alternate method of calling gettime that I copied you on yesterday should provide a temporary way around this bug. | | Aaron | 4 | Pat | verify note in quick reference guide and then task will be closed | | | | | | | |
| 2106 | Add the ability to right-click on a variable in the widget-tree and display a popup with basic information about the quantity such as dimensions, range, or other meta data as well as the ability to rename variable | | Pat | 4 | Pat | originally part of task 64, however, after further evaluation, it was determined this best belonged with the widget tree rather than the analysis window | | | | | | | |
| 2220 | I found a small bug in the z-axis panel in the gui. If I change the z-axis annotation size of a layout with 2-panels each with one spectrogram, when I apply this change, it gets applied to both panels, even if set-all is off. | 8/27/09 | Pat | 4 | Pat | | | | | | | | |
| 3063 | 40. CL tplot options setposition test plots all look the same | 1/15/10 | Pat | 4 | Pat | Long-standing tplot bug, may not ever be fixed | | | | | | | |
| 4029 | One of Michael Hartinger (a grad student in atmos) is having trouble with thm_part_getspec when the SST is in fast survey mode. The routine can take a very long time to run because of the higher resolution. I think we should put a feature request on the list to automatically downsample the particle data in time. Normally, I would suggest that uses downsample using one of our interpolation routines, but because the particle data is stored in a special common block, there is no easy way for end users to perform this operation. | | Michael Hartinger / Pat | 4 | Pat | Michael supplied code for thm_part_moments | 4-8 hrs | | | | | | |

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