| Task# | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | | | | QA Suite | | | Adm | Dev |
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| | | | | | | | Estimate | A&E | Crib | or Script | UG | Qref | Guide | Guide |
| | To be Assigned or Discussed | 1 | | | · | • | | <u> </u> | | | | | | |
| | ARTEMIS Full Data: Looking at THB data for Aug 26 and 27, I'm not seeing any 32x88 PEEF data (apid 457). All I'm seeing is 15x88, for the following time intervals: Aug 26: 05:44:27 to 09:03:06 Aug 27: 11:54:13 to 15:13:08 It's not a processing issue; this is the only configuration I'm seeing in the apid 457 packets for these dates. If you were expecting something else, that would be an issue for the ops team. | 8/29/11 | Vassilis | ? | Jim L - > Ops Team | Vassilis to report to Ops Team | | | | | | | | |
| | is there a difference in the definitions of the two cotrans (fdcops and tdas) and if not, which one is right? | 9/8/11 | Cindy - Xiaojia | | Jim M | | < | | | | | | | |
| 4362 | First Themis subscriber from CZ - Charles Univ Prague | | Jaroslav Urbar | | | just announce | | | | | | i | | |
| 4363 | store_data overwrites the value of the 'verbose' keyword with the default from tplot. This probably doesn't account for much of the console "spam" we get, but it should still be fixed so that the keyword is functional. Also the 'verbose' keyword is not passed through to store_data in the cdf_info_to_tplot routine | 9/8/11 | Aaron | 1 | Aaron | | | | | | | | | |
| | Not a high priority issue but I noticed a problem trying to log in and use x-windows tunneling. I was trying to run the SSL version of idlde. First I log into apollo from my desktop at ucla: ssh -X apollo.ssl.berkeley.edu, then I log into astraea from apollo(because IDL is disabled on apollo, for some reason): ssh astraea -X. The error I get is: /usr/openwin/bin/xset: Command not found. And when I try to call idlde, it fails.I type: "which xset", to find the location of xset and it tells me that xset is not stored at the location that ssh is looking: /usr/X11R6/bin/xset | 9/8/11 | Pat | | IT | | | | | | | | | |
| 4368 | | | | | | | | | | | | | | |
| 4369 | | | |] | | | | | | | | | | |
| 4370 | | | | | | | | | | | | ļ | | |
| 4042 | General Person on intended and enterior of FCM and STATE Personaling | 4/40/40 | Det | 4 | line I | David Dut Danas into themis des | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| | Paper on interdependentcies of FGM and STATE Reprocessing | 4/19/10 | Pat | 1 | Jim L | David - Put Paper into themis doc format | | | | | | | | |
| | 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 - Pat | IDL Error report to ITT - Bjorn at ITT 6/22: what I see it has been fixed in IDL 8.1 which is available for download from our website. Let us know how things work out after you install IDL 8.1 and test this out. | | | | | | | | |
| 4013 | Plot Description Doc Button | 3/22/10 | David | 3 | Emmaunel | in progress | ł | | | | | | | |
| 4337 | DP Processing web page change | 8/22/11 | David | 1 | Emmaunel | David to get website updated, notify Tohbans | | | | | | | | |
| 4359 | Data Overview web page add links for Data Products and Processing | 9/6/11 | David | 2 | Emmanuel | | | | | | | | | |
| | Delete link to STATE CDF File Inventory under Data Products on DP Status web page | 9/8/11 | Jim L | 1 | Emmanuel | David to talk to Emmanuel | | | | | | | | |
| | It was suggested that we allocate multiple processors to speed up overview plots. But this would only speed things up if we modified our overview processing scripts so that they're executed in parallel. My thinking is that it would be a much smaller modification to just adjust the multi-threading settings on IDL, rather than making the changes to run each overview probe in parallel. | 8/24/11 | Pat | ? | David | Run an Experiment after VM Migration is completed. | | | | | | | | |
| 4357 | Laura is looking into the processing of EPO Spectra jpgs. As this has been a problem for more than a year it is probably not a high priority. | 9/1/10 | David | n/a | Laura Petacolas | 5 | | | | | | | | |
| | Harald | | | | | | | | | | | | | |
| | L1's and mosaics are up-to-date and available through August 2011 | | | | Harald | | | | | | | | | |
| | Thumbnail Data: | | | | Harald | Updates ready 7-10th of the next month | | | | | | | | |
| | | | | ļ | | | | ļ | | | | <u> </u> | | |
| | - cdf files done until August 2011 | | | | | | } | | | | | | | |

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| | | | | | | | Estimate | A&E | Crib | or Script | UG | Qref | Guide | Guide |
| | - overview plots done until August 2011 | | | | | | ļ | | | | | | | |
| | - movies done until December 2010 | | | | | | | | | | | ļ | | |
| | Full-resolution raw data: | | | | Harald | | - | | | | | ļ | | |
| | 2007-2010 and for 2011 up todate and complete through April 2011 | | | | | | } | | - | ļ | | ļ | | |
| | Full resolution data: | | | | Harald | | | | | ÷ | | <u> </u> | | |
| | - data cdf done for all 2007-2010 and for 2011 up todate and complete through April 2011 | | | | | | | | | | | | | |
| | - keogram cdf done for 2007-2010 and for 2011 up todate and | | | | | | | ļ ! | ļ | | | ļ | | |
| | complete through April 2011 | | | | | | | | | | | | | |
| | Web site mosaics and movies: | | | | | | | | | ļ | | ļ | | |
| | - Mosaics and movies reprocessed for 2007, 2008, 2009 and 2010 seasons | | | | | | | | | | | | | |
| | - Mosaics and movies up to date until December 2010 | | | | | | <u> </u> | | | \$ | | <u> </u> | | |
| | Web site overview plots with full resolution data: | | | | | | - | | · | ļ | | | | |
| | - overview plots done for 2007-2010 and for 2011 up todate and complete through April 2011 | | | | | | | | - | | | - | | |
| | Hannes | : | | : | ₹ | | · | | | - | | | | |
| 4153 | maintenance of gmag stations "Exclude List" | 10/11/10 | David | 0 | Hannes | Exclude List updated 7/11/11 | | | | | | | | |
| 4018a | New Calibration FGM parameters and spin axis offsets | 5/10/10 | Hannes | 1 | Hannes | 8/22/11 Hannes: start new Artemis | | | | 1 | | <u> </u> | | |
| | | | | | | offsets this week (currently covered through mid June). Themis covered | | | | | | | | |
| | | | | | | through Mid August and will not be | | | | | | | | |
| | | | | | | updated until the end of the year 2011. 8/29/1: Sent to Brandswaug | | | | | | | | |
| | | | | | | · · | | | | | | | | |
| 4080 | Attitude Determination next few months | 6/21/10 | Hannes | 1 | Hannes | After 4018a for Artemis is complete will | | | | | | ļ | | |
| | | | | | | work on spin phase and axis offsets | | | | | | | | |
| | | | | | | | | | | | | | | |
| 4034b | Ferdinand sent was an attempt on his part to automate the shadow | 4/14/10 | Vassilis | 1 | Hannes | Waiting for feedback from Ferdinand | { | ļ | | | | | | |
| | processing. He wanted feedback whether the products produced are adequate and if the code is amenable to automation. We can pick it | | | | | about state of inner probe eclipse | | | | | | | | |
| | up with him once you have gone through it. | | | | | models, long & short eclipse models | | | | | | | | |
| 2082a | Spin modeling during shadows BugZid=43 | | Vassilis | 2 | Hannes | Jim L to write routine. Hannes send info. | | | | | | | | |
| 4058 | This is getting a bit out of hand I think. How about a configuration | 5/10/10 | Hannes | 3 | Hannes | Hannes sent out new version for review. | } | | | | | <u> </u> | | |
| | 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. | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 2074c | quality flag for FGM data | | Vassilis | 3 | Hannes | on hold | | | | | | | | |
| | Aaron | ! | | | <u> </u> | | | | - | | | | - | |
| 4332 | Slices Mods Keyword forces a load, SST warning to interpolate | 8/22/11 | Vassilis | 1 | Aaron | <u> </u> | ļ | | | | | | | |
| | Andre stopped by again yesterday to mention that everything looked | 8/19/11 | Andrea | 1 | Aaron | | | | | | | | | |
| | good. He did make a suggestion, which I agree with, to change the keyword that controls slice type ("TYPE") since the same keyword is | | | | | | | | | | | | | |
| | already used in the load routine and it could get confusing. | | | | | | | | | | | | | |
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| | · | • | , | | 3 | | Estimate | A&E Cı | D QA Suite or Script | | Qref | Adm Guide | Dev Guide |
| the | erp_xz, perp_yz, xz,yz cannot be selected. I guess that changing e orientation vector below helps solving these problems? A friendly struction might be helpful for new users like me. | 8/22/11 | Shanshan | 1 | Aaron | Discuss at next S/W Meeting | | | | | | | |
| bu pre an pre wit na | do not understand why there is a 'Generate' button and no 'Save' utton. I can only check plots after I exported all of them, but I cannot ress 'export all' directly because I have to generate the plots first and then export them. Every time I change some parameters and ress 'export all' directly, I find those plots exported are the same ith the old parameters. I find it a little inconvenient because I aturally would assume the new plots be according to new arameters. | 8/22/11 | Shanshan | 1 | Aaron | Discuss at next S/W Meeting | | | | | | | |
| | hen I press the '?' button, the size of the popped-out window is too mall to contain all the information it actually included. | 8/22/11 | Shanshan | 1 | Aaron | | | | | | | | |
| | s plot comes up and erases the tplot time series plots. ould you make sure it opens a separate window? | 8/22/11 | Vassilis | 1 | Aaron | | | | | | | | |
| | tried to avoid smoothing but it seems to have smoothed when it nouldn't. | 8/22/11 | Vassilis | 1 | Aaron | | | | | | - | | |
| | ne autorange did not autorange when limited the energy in Dinterpol but worked for Geometric. | 8/22/11 | Vassilis | 1 | Aaron | in progress | | | | | | | |
| | eneral Slices feedback from UCLA (Stefan, Andrei, Shanshan and uzhi) and UCB (Jim McFadden) | 8/1/11 | Vassilis | 1 | Aaron | update the crib and users guide as needed | | | | - | | | |
| 4340 An | nything you can do to accelerate the geometric method? | 8/22/11 | Vassilis | 1 | Aaron | discuss at S/W meeting | | | | - | · | | { |
| an Ioa fin fig | When Cindy & I tried to load tha_eff on 2007-03-23, it didn't load nd said some calibration quantity couldn't be found. When I tried to ad the same thing, I didn't have a problem. So the trick would be to ad out what changed from my computer to Cindy's computer and to jure out how often our user's computers are going to have the ame 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 | | | | | | |
| on | e don't have support for filled symbols. This means symbols are ly outlines. | 12/11/09 | Pat | 2 | Aaron | | | | | | | | |
| | UI Overview plots sometimes have diamond shaped artifacts in the ample 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 | | | | | | |
| Ge | ombination of ESA and SST data could only be done in the eometric mode. Would be great if it could be done in other modes s well. | 8/11/11 | Xuzhi | 4 | Aaron | On Hold | | | | | | | |
| 1579 Wi str fail | Well. Then importing a variable with a valid 'V' component in its data ruct, but no spec flag set in its meta data, the loaded data object ils to load the y-axis. This should be fixed, as it ends up incorrectly ading certain spectral quantities. | | Pat | 4 | Aaron | | | | | | | | |
| ret thr thb | hen thm_load_fit is called requesting a single data type it will also turn some auxiliary data types. For example: m_load_fit,probe='b',datatype='fgs' returns: 1 thb_fit_code 2 b_fit_npts 3 thb_fgs. load bug or test script bug) b. The lpathnames all keyword is broken. | | | 4 | Aaron | | | | | | | | |
| 2029 Fro | rom Hannes | | Hannes | 4 | Aaron | | | | | | | | |

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| 2029a | Provided is the most common plot used by scientists that look at magnetic field data. Four panels Bx By Bz Bt and the position X Y Z as variables. Often the radial distance R is another variable. It would be great if someone enters e.g. tplot, 'tha_fgs_gsm' such a useful default plot would appear. I am currently not able to produce such a plot using tplot. Another useful plot would be instead of one trace per panel, 5 traces per panel. One for each spacecraft and 5 sets of positions as variables at the bottom. For example: tplot, 'th?_fgs_gsm' could produce such a plot. Also some standard plots that combine ground and spacecraft data could be useful. Notes from Vassilis: define keyword /positions default 'none', allow GSM X Y Z, R Lat Long, | | Hannes | 4 | Aaron | | | | | | | | | |
| 2029b | 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 | | | | | | | | | |
| 2029c | 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 | | | | | İ | | | | |
| 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 | | | | | | | † | | |
| 2013w | Integrate our own slicer3.pro gui with regular 2-D slice plots. | | Vassilis | 4 | Aaron | on hold | 2 days | Υ | Υ | Y | Y | | | |
| | Ben | | | | | | | | | ļ | | ‡ | | } |
| 4334 | Python Migration - testing and Migration | 8/22/11 | David | 0 | Ben | in progress | | | | | | | | |
| 4214 | THEMIS Pipeline proof of concept regression tests | | | | Ben | iii progress | | | | <u> </u> | | ļ | | |
| | VC->L0 L0->L1 | 3/23/11 3/23/11 | Jim L Jim L | 1 1 | Ben | in progress; in progress | | | | | | ļ | | |
| | empermeris->state v00 | 3/23/11 | Jim L | 1 | Ben Ben | exercised state v2; Jim L to take a | | | | | | ļ | - | |
| | | | 5 | | | hand in this | y | | | | | ļ | | |
| | Document: Administrators Guide | 3/1/11 | David | 1 | Ben | | | | | | | ļ | | |
| 4001a | Review Tim Quinn's scripts and update admin guide for input and output locations. (VC->L0->L1) | 8/26/11 | Jim L | 1 | Ben | in progress | | | | | | | | |
| 4001b | update admin guide for input and output locations L1->L2 | | | | | in progress | | | | | | | | |
| 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 | | Vassilis | 1 | Ben | In progress. Several templates created, selecting the appropriate command line routines to test. | | | | | | | | |
| 4200 | Yuri has generated a 3 parameters for the THEMIS spacecraft i.,i.*,Mlat. These parameters are very useful scientifically. The task 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. | 1/19/11 | Yuri Shprits | 2 | Ben | part of the state cdf | | | | | | | | |
| 4214 | THEMIS Pipeline proof of concept regression tests | | | | | | | | | | | | | <u> </u> |
| | GMAG | 3/23/11 | Jim L | 2 | Ben | | | | ļ | | | ļ | | |
| 42141 | AE Index | 3/23/11 | Jim L | 2 | Ben | | | <u></u> | L | | | | 1 | |

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| 4214g | | 3/23/11 | Jim L | 2 | Ben | | | | | | | | | |
| | mosaics | 3/23/11 | Jim L | 2 | Ben | | | ļ | | ļ | ļ | | <u> </u> | <u>}</u> |
| | summary plots | 3/23/11 | Jim L | 2 | Ben | Ct | } | ļ | ļ | ļ | | | <u> </u> | <u>}</u> |
| | 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 | Ben | 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 | Ben | needs a prerequisite written - see 2149g | | | | ļ | | | | |
| | 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 | Ben | | 2-4 hrs | | | | | | | |
| | 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 | Ben | | | | | | | | | |
| | 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 | Ben | | | | | | | | | |
| 2078 | bau_sunpulse_met assumes x86 endiannes (BugzID=13) | | Vassilis | 3 | Ben | | | | | | | | | |
| 4027b | Reprocessing GOES Data | 4/5/10 | Tami - SPDF | 1 | Ben | Reprocessing on hold until Howard Singer delivers another batch of binary GOES data files. | | | | | | | | |
| | Cindy | | | | | | | <u> </u> | | | | | | |
| | • | | | | | | | <u> </u> | | | | | | |
| | : Jim L | | | · | · | <u> </u> | | | | † | | | | - |
| 4334a | Python Migration - testing and Migration | 8/22/11 | David | 0 | Jim L | in progress | | 1 | ļ | ÷ | | | | 1 |
| 4310 | state files: including P1, P2 SSE and SEL coordinates | 8/8/11 | Vassilis | 0 | Jim L | | | | | | [| | i | |
| 4310g | take Jasper's code and incorporate into thm_cotrans | 8/8/11 | Vassilis | 0 | Jim L | | | <u> </u> | | | | | | |

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| 4310b | Change the V00 and V02 ascii ephemeris to state CDF processing to include the new SSE and SEL ephemeris variables | 8/8/11 | Vassilis | 0 | Jim L | 1 | | | | | | | | |
| 4310c | Change thm_load_state to allow loading the new variables | 8/8/11 | Vassilis | 0 | Jim L | | *************************************** | | | | | | | |
| 4310d | Test that revised CDFs have correct data | 8/8/11 | Vassilis | 0 | Jim L | See Sabine for verification of code - email sent to ARTEMIS team on 9/1/11; earliest 9/19-9/23 | | | | | | | | |
| 4310e | Deploy code changes and new master CDFs for use in the automated processing | 8/8/11 | Vassilis | 0 | Jim L | on hold until confirmation 4310d | | | | | | | | |
| 4310f | Reprocess state CDFs for entire mission | 8/8/11 | Vassilis | 0 | Jim L | to an array of Franklin and a side and | | ļ | | | | | | |
| 4326a | The ARTEMIS science team is keen to have a look at the most recent lunar data, with the eclipse spin model corrections turned on. That processing isn't fully automated yet, so it'll take me a couple of hours to set up and run Ferdinand's eclipse processing code. I told Vassilis I'd try to have at least the THB and THC products up to date by next Wednesday's telecon. | 8/18/11 | Vassilis | 0 | Jim L | in progress - Ferdinands code not working on all eclipses; Spin model for Artemis probes expended fuel. Awaiting info from FGM Team | | | | | | | | |
| 4326b | Then for Particles | 8/18/11 | Vassilis | 0 | Jim L | | | ļ | | | | | | |
| 4365 | reverse-engineer the process of updating the onboard tables that define the ESA and SST angle/energy modes. | 9/8/11 | Vassilis | 0 | Jim L | | | | | | | | | <u> </u> |
| 4365a | 3. | 9/8/11 | Vassilis | 0 | Jim L | On hold | | | | | | | | |
| 4365b | ETC table upload utility: Davin may have something in his backups. If not, JWL will resurrect a "cmd2raw" utility we used during I&T to convert ASCII files of IDPU commands to a properly checksummed RAW command file, which the ops team can then upload to the probes. Jim McFadden and/or Davin will have to provide the list of IDPU commands. | 9/8/11 | Vassilis | 0 | Jim L | On hold | | | | | | | | |
| 4365c | (Maybe) ETC table image->IDPU command converter: If Jim McF or Davin can't come up with a list of IDPU commands, we may need an additional utility to take the desired ETC memory image, and convert that to a file of IDPU commands that will produce the desired memory image when executed on board. | 9/8/11 | Vassilis | 0 | Jim L | On hold | | | | | | | | |
| 4367 | python2 kernel traps | 9/7/11 | Jim L | 1 | Jim L | | | ļ | | | | | | |
| 4331 | I noticed a couple of warnings overnight from the automated definitive ephemeris processing. It looks like a couple of files from 2008 got updated: THEMIS_B_EPHDEF60_08135_000100_08141_210000 THEMIS_B_EPHDEF60_08141_210100_08148_140000 THEMIS_B_EPHDEF60_11203_020100_11229_110000 was also picked up (as expected), and processed normally as far as I can tell. I haven't tracked down the exact problem with the 2008 files that were also processed last night. It's possible that my script just isn't working properly or the case when an ephemeris file is updated, but the preceding and following files are not. But it appears, from the processing logs, that the data in those two files may have differed from what was there previously. Otherwise, it should have detected that the updated products were identical to the published products, and skipped the update. Any idea why these files might have been updated, and what (if anything) was different about the updated version? | 8/19/11 | Jim L | 1 | Jim L | Dan Cosgrove will update ascii files and then you will do a manuel reprocessing as needed | | | | | | | | |

9/9/11 2:11 PM 6

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| 4034a2 | thm_parts_moments update | 11/22/10 | Vassilis | 1 | Jim L | initial simple way, final fix is to fix esa and sst 3D data structures | | <u> </u> | | | | | | |
| 4034a3 | awaiting feedback and performing analysis | 11/22/10 | Vassilis | 1 | Jim L | Tips of the Month at some point? | | | | | | | | { |
| 4268e | astrea - come up with a test , verification and migration plan | 7/18/11 | David | 1 | Jim L | Lydia will do gmag | | | | <u> </u> | | | | |
| 4236 | 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. | 5/23/11 | Ferdinand | 1 | Jim L | | | | | | | | | |
| 4142 | issue with FGS processing - timestamps | 9/30/10 | Vassilis | 1 | Jim L | not trivial | 3-5 days | Υ | | | | | | |
| 2266 | Timing of Spin Fit data | 10/16/09 | Jim McFadden | 1 | Jim L | see 4142 | | | | | | | | |
| 2047 | 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. | | | | | | | | |
| 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 | | | | | | | | |
| | in complete dinamental manages to proceeding complete | 0 | O 2011.0 | | S 2 | recou prerequente | | | | | | | | ļ |
| 4070 | "Add support to thm_cotrans, ssi2gse, and ssi2dsl 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. | | | | | | | | |
| 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-B ESA, after time 15:58:40.695 are of a different resolution and the data values are either 0.0 or -NaN. | | 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 | 7/15/11 | 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 | | | | | | | | |

| ٠ : | | Date Opened | Reported By | Pri | Assigned To | Motes | Estimate | A&E | Crib | QA Suite or Script | UG | Qref | Adm Guide | Dev Guide |
|--------|--|-------------|-------------|-----|-------------|--|----------|--------------|--------------|-----------------------|----|------|--------------|--------------|
| | There was a suggestion that we use dprint more consistently in our debugging output so that it is possible to disable all of the text that the GUI and other TDAS software prints to the command line. | 6/30/11 | Pat | 2+ | Jim L | to take a look at a possible standard and then review with all | | | | | | | | |
| 4301 | "bad" themis thg l2 files - instrument files; L0->L1 processing produces incomplete/empty CDFs | 8/1/11 | Tami | 2 | Jim L | one fixed - one priority 2 | | | | | | | | |
| (| 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 | | | | | | | | | |
| 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 | | | | | | | | |
| i | 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. | | | | | | | | |
| 2038 | STATE Web Page (s) | | Vassilis | 3 | Jim L | review web pages | | | | | ļ | ļ | | |
| | bad timing sun pulse times (early January 2009) | | Vassilis | 3 | Jim L | Clarification needed | | | | | | | | |
| | L1 Data Processing History Info: SCM, EFI, STATE | | Vassilis | 3 | Jim L | Lydia??? | l | ļ | ļ | ļ | | ļ | ļ | |
| | Refactor repeated CDF library code in CDF processing tools BugZid=50 | | Vassilis | 3 | Jim L | | | | | | | | | |
| 2077 1 | Non Monotonic timestamps. BugzID=72 | | Vassilis | 3 | Jim L | | | † | | | | | | |

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| 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 | | | <u> </u> | | | | | | |
| 2083 | Add "last processed" time to L1 (and L2?) CDFs BugZid=115 | | Vassilis | 4 | Jim L | | | | | | | | | |
| 4097 | cdfs 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 | | ļ | | ļ | | ļ | | |
| | : Jim M | | | | } | | } | | | <u> </u> | | | | |
| 4334b 2283b | Python Migration - testing and Migration L1-L2 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. **Send old code to Pat ** | 8/22/11 11/2/09 | David Jim Mcfadden | 0 1 | Jim M 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. I'll check this out. eta 9/6 then Jim Mc Fadden approval | | | | | | | | |
| 4312 | Quality flags for efi are wrong including electric field offsets in computation. On hold until Michael Hartinger sorts out. | 8/8/11 | Vassilis | 1 | Jim M | discuss with Vassilis | | | | | | | | |
| 4233 | Angular Correction for particle data - use Jim McFadden's code if available | 1/9/11 | Vassilis | 2 | Jim M | | | | | <u> </u> | | · | | |
| 4302 | "bad" themis thg I2 files - mag files | 8/1/11 | Tami | 2 | Jim M | multiple versions of idl_make_cdf Jim M to look at | | | | <u> </u> | | | | |
| | | | | | | | | | | | | | | |

| Define and I have tested the variables, there are have that don't seem. Define and I have tested the variables, there are have that don't seem. Define and I have tested the variables, and the ordinates seem to include the mission, and their collectics seem to include the mission and their collectics. Define the factor ETS_Q_PIN and collectics. Define the | Task# | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | } | | | | | | _ | _ |
|--|-------|--|-------------|---------------|-----|-------------|--|----------|--------------|------|---|----|------|---|--------------|
| by here date for the messels, and their cathesis seem to indicate that they work, as core with The section of the state a plant to use that they work, as core with The section of the sec | | | • | | | | | Estimate | A&E | Crib | | UG | Qref | | Dev Guide |
| injust, to include transformation of spinase attitude, need to determine keyword switch, implement the rotation of the spinase consolivation (consolivates) | 4241 | 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 | 6/6/11 | Tami Kovalick | 2 | Jim M | 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 | | | | | | | | |
| is six Stord in the neise date, and none of the units are stored in the place we normally try to store them (from Pat - Vassilis concurs) Will take a look. 2035 Spill LI ESA (using Thomas's routine) in master ESA date od 2045 Spill LI ESA (using Thomas's routine) in master ESA date od 2056 Spill LI ESA (using Thomas's routine) in master ESA date od 2057 Spill LI ESA (using Thomas's routine) in master ESA date od 2058 Spill LI ESA (using Thomas's routine) in master ESA date od 2058 Spill LI ESA (using Thomas's routine) in master ESA date od 2058 Spill LI ESA (using Thomas's routine) in master ESA date od 2059 Spill LI ESA (using Thomas's routine) in master ESA date od 2050 Spill LI ESA (using Thomas's routine) in master ESA date od 2051 Spill LI ESA (using Thomas's routine) in master ESA date od 2051 Spill LI ESA (using Thomas's routine) in master ESA date od 2051 Spill LI ESA (using Thomas's routine) in master ESA date od 2051 Spill LI ESA (using Thomas's routine) in master ESA date od 2051 Spill LI ESA (using Thomas's routine) in master ESA date od 2051 Spill LI ESA (using Thomas's routine) in master ESA date od 2058 Spill LI ESA (using Thomas's routine) in master ESA date od 2059 Spill LI ESA (using Thomas's routine) in master ESA date od 2050 Spill LI ESA (using Thomas's routine) in master ESA date od 2051 Spill LI ESA (using Thomas's routine) in master ESA date od 2051 Spill LI ESA (using Thomas's routine) in master ESA date od 2051 Spill LI ESA (using Thomas's routine) in master ESA date od 2051 Spill LI ESA (using Thomas's routine) in master ESA date od 2052 Spill LI ESA (using Thomas's routine) in master ESA date od 2053 Spill LI ESA (using Thomas's routine) in master ESA date od 2054 Spill LI ESA (using Thomas's routine) in master ESA date od 2054 Spill LI ESA (using Thomas's routine) in master ESA date od 2054 Spill LI ESA (using Thomas's routine) in master ESA date od 2054 Spill LI ESA (using Thomas's routine) in master ESA date od 2054 Spill LI ESA (using Thomas's routine | 2027e | 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 | 2 | Jim M | not allow velocity to go bad | | | | | | | | |
| ### Pages ### Pa | 2224 | 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 | | Vassilis | 2 | Jim M | | | | | | | | | |
| A003 Document: ESA File and Calibation Processing 3/6/10 David 3 Jim M | 2035 | Split L1 ESA (using Thomas's routine) in master ESA data cdf | | Vassilis | 2 | Jim M | 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 | | | | | | | | |
| A003 Document: ESA File and Calibation Processing 3/6/10 David 3 Jim M | | | | | | | | | | | | | | | |
| 2091 Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdfs - entire mission 2055 ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA 2093 AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassillis minor nuisance 2094 Overview plot change: mode bar seems thick 2095 Mosaic Processing - permanent script needed 2096 Vassillis 4 Jim M Nothing we can do easily 2097 Mosaic Processing - permanent script needed 2098 John Bonnell 4 Jim M Which is better? Assigned to J. B. (low priority) 2100h Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). 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 | | | | | | | Talked to David first. | | ļ | | | | | | <u> </u> |
| reprocess ESA AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes-Vassilis: minor nuisance Overview plot change: mode bar seems thick Vassilis Mosaic Processing - permanent script needed Oversiew plot change: mode bar seems thick Vassilis John Bonnell Oversiew plot change: mode bar seems thick Vassilis John Bonnell John B | | Once Jim McFadden completes his mods for n_3d_new_3 reprocess | 0,0,10 | | | | | | | | | | | | |
| minor nuisance 2094 Overview plot change: mode bar seems thick 2095 Mosaic Processing - permanent script needed 2096 Vassilis 2097 Vassilis 2097 Vassilis 2098 Mosaic Processing - permanent script needed 2098 Mosaic Processing - permanent script needed 2098 Vassilis 2099 Vassilis 2 | 2055 | | | Vassilis | 3 | Jim M | | | | | | | | | |
| 2095 Mosaic Processing - permanent script needed 2100d DC offset between 4sdo and 2sdo in boom plane 2100d DC offset between 4sdo and 2sdo in boom plane 2100h Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). 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 Lydia | | minor nuisance | | | 4 | Jim M | | | | | | | | | |
| 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 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 Lydia | | | | | | | nothing we can do easily | | | | | | | | |
| 2100h Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). 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 | | | | | | | | | | | | | | | |
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| conditional based on th? fit_code TPLOT variable. If E12 switched to E34 software needs to be revised to handle Lydia | 2100h | | | John Bonnell | 4 | Jim M | On Hold - low priority | | | | | | | | |
| | 2100p | conditional based on th?_fit_code TPLOT variable. If E12 switched to | | John Bonnell | 4 | Jim M | | | | | | | | | |
| | | Lydia | : | | | | <u> </u> | } | | | | | | | |
| | 4358 | | 9/6/11 | David | 0 | Lydia | Next March 2012 | | <u> </u> | | † | | | ļ | , |

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| | | | | | | | Estimate | A&E | Crib | QA Suite or Script | UG | Qref | Adm Guide | Dev Guide |
| | I got a question from a grad student(Shan shan) that made me think of a missing feature. The routine tinterpol_mxn should have a 'repeat/nearest neighbor' option when interpolating. That is, instead of picking a value between the two adjacent points when interpolating, it should repeat the value of the nearest point. This came up when Shan Shan was trying to interpolate a bit-packed variable(the ROI data), if you use normal interpolation on this type of variable, the result will be garbage. It looks like this routine gets a lot of usage so I think it would be a fairly visible improvement. | 8/23/11 | Pat | 1 | Lydia | in progress | | | | | | | | |
| | I was loading some FFT data in the GUI and just wanted to check that the behaviour was correct. If I attempt to load fff_32_adc it brings up a message: THM_UI_LOADED_DATA::ADDDATA-> Problem loading: tha_fff_32. GUI data model does not currently support data with dimensions greater than 2. (and also messages for tha_ffp_32 and tha_ffw_32) But it does show fffip/w_adc, src, hed as having loaded. I don't actually know what any of these quantities are so I'm not sure if this is what it should be doing. (This doesn't seem to happen in v.6) | 8/26/11 | Lydia | 1 | Lydia | tplot and gui | | | | | | | | |
| | Astraea GMAG script migration plan I noticed that some of the scripts that are running are not on the SVN. I'd like to move the scripts over to SVN and make sure everything is running correctly before the migration. Existing problems, such as with the EPO processing warnings, will just make the migration more difficult to test. | 8/30/11 | Lydia | 1 | Lydia | in progress | | | | | | | | |
| 4256b | Astrea Test and Migration to VM | 8/30/11 | David | 1 | Lydia | | | | | | | | | |
| | Bay Mills was installed backwards, where sensor north is facing south. Apart from sending someone to rotate the sensor 180 degrees, there is nothing that we can fix. What we can do is add a matrix transformation and reprocess the data. | 8/22/11 | Shanshan | 1 | Lydia | in progress - Shanshan to verify for Bay mills; PINE and HOTS analysis ongoing | | | | | | | | |
| | Bob Clauer mentioned that he was interested in importing his Antarctic gmags into TDAS. | 6/30/11 | Bob Clauer | 2 | Lydia | Bob email us and said he would provide necessary data. | | | | | | | | |
| | 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. Augsburg investigating | 2/19/10 | James Weygand | 2 | Lydia | Email requesting other 2007 sites to be put on ftp site. From Erik at Augsburg: We are indeed moving information from an older computer to a newer one, with both currently in service and with the general designator space.augsburg.edu now pointing at the newer computer leaving the old 'space' computer as yspace, as you noticed. We are indeed moving information from an older computer to a newer one, with both currently in service and with the general designator space.augsburg.edu now pointing at the newer computer leaving the old 'space' computer as yspace, as you noticed. | | | | | | | | |
| 2175 | L2 File Definitions Document | 3/1/11 | David | 2 | Lydia | 25% time - in progress | | | | | | } | | ; - |
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| | | | | | | | Estimate | A&E | Crib | or Script | UG | Qref | Guide | Guide |
| 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 lan 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 | | | | | | | | | |
| 4360 | GMAG updates to Administrators Guide | 9/6/11 | David | 2 | Lydia | | } | | | | | | | |
| 4006 | add the following ancillary ground-based observations: MAGDAS Network, Auroral Electrojets (AE) and Ground Radars (SuperDarn, AMISR and Sondrestorm) | 3/8/10 | David | 2 | Lydia | discuss at software meeting of 9/27 | | (| | | | | | |
| 4298 | the slices code should probably have a keyword to use the new SST calibrations. | 7/27/11 | Pat | 2 | Lydia | On hold till the SST calibrations have found wider use. | | | Y | | Y | | | |
| 4313 | While on the telecon with Alberta, I was looking at the IDL documentation for their built in http download object. It actually makes it look like the http authentication, with username and password would not be too difficult. Since this keeps coming up, we might want to consider dedicating a few hours of programming time to see how hard it actually is to do authenticated downloads. If it turns out not to be too hard, it would probably give us the capability to extend our system to a lot more types of data. | 8/11/11 | Pat | 2 | Lydia | when the need arises - on hold | | | | | | | | |
| 2088 | Themis Developers Guide | | David | 3 | Lydia | 25% time after 2175 completed | 1 | | | - | | | | |
| 2036 | GOES 10-12 Test data: h. update labels (Howard's request - minor tweak) | | Vassilis | 3 | Lydia | see Jim L | | | | | | | | |
| 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 | Lydia | see Pat | | | | | | | | |
| 2090 | that streamlines the generation of gmag stackplots and a crib to show how to do this. (< than a day) | | Vassilis | 3 | Lydia | see Jim M | | | | | | | | |
| 4210 | Modeling SST fluxes | 3/12/11 | Vassilis | 3 | Lydia | on hold | - | | | | | | | |
| 3007 | EPO-GMAG msgs: modify the script and only issue this message if > 2 days | 12/8/09 | David | 4 | Lydia | see Pat | | | | | | | | |
| 44206 | Pat | 0/47/40 | Davis | | D-4 | O francisco de la complessa de la decida de la complessa de la | | | | | | | | <u></u> |
| 41301 | Run simulation for range of initial positions around the full sphere. | 9/17/10 | Davin | 1 | Pat | Software to be purchased and build the geometry by hand. (working with Rob Lewis) in progress; anothet two weeks before testing | | | | | | | | |
| 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. | 10/8/10 | 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. Davin will talk to Peter next week. 7/26/11 David reminded Davin;8/22/11 Vassilis says another week | | | | | | | | |
| 4267c | Write code to remove proton and electron contamination from the electron and proton distributions using data and efficiencies from the F & O channels. | 6/27/11 | Pat | 1 | Pat | in progress - updating code to new method | | | | | | | | |
| 4355 | IDL-VM checkout | 8/30/11 | Yoshimasa - | 1 | Pat | | | <u> </u> | | | | | | |
| 4306 | Overview web page navigation | 8/1/11 | lugonet Vassilis | 1 | Pat | Emmanuel not able to do | | | ļ | | | | | J |
| 4068 | Lynn Wilson possible enhancements | 6/1/10 | Lynn Wilson | 1 | Pat | Review Lynn's software and generate list of features | | | | | | | | |

| Task# | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | Estimate | A&E | Crib | QA Suite or Script | UG | Qref | Adm Guide | Dev Guide |
|-------|---|-------------|-------------|-----|-------------|---|----------|----------|------|-----------------------|----|------|--------------|--------------|
| 4287 | Switching SST Load routines to thm_sst_load2 for SST calibrated data | 7/15/11 | Pat | 1 | Pat | | | <u> </u> | | | | ļ | | |
| 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 | 2 | David - Pat | IDL Error report to ITT - Bjorn at ITT 6/22: what I see it has been fixed in IDL 8.1 which is available for download from our website. Let us know how things work out after you install IDL 8.1 and test this out. | | | | | | | | |
| 2060 | L2 cdf Quality Flags: for SST | | Vassilis | 2 | Pat | | | | | | | | | |
| 4002 | Document: SST File and Calibation Processing | 3/5/10 | David | 2 | Pat | | | | | | | | | |
| 4208b | Enhanced SST Instrument Web Pages | 3/5/10 | David | 2 | Pat | Talked to David first. | | | | | | | | |
| 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 | check draw object | | | | | | | | |
| 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 | | | | | | | | | |

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| 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 | | | | | | | |