| ask#         | Task Description   | Date<br>Opened          | Reported<br>By     | Pri | Assigned To      | Notes   | Estimate<br>(hrs) |
|--------------|--|-------------------------|--------------------|-----|------------------|---|-------------------|
| 4073         | To be Assigned or Discussed  Review aux0 and python use  | 6/9/2010                | David              |     |                  | Discuss at S/W Meetiing 6/14  |                   |
| 4076         |  |                         |                    |     |                  |   |                   |
| 4077         |  |                         |                    |     |                  |   |                   |
| 4078<br>4079 |  |                         |                    | -   |                  |   |                   |
| 1080         |  |                         |                    |     |                  |   |                   |
| 106          | General I noticed that the Data->Collaboration Tools->(subcategories) fall   | 7/28/2009               | Michael            | 2   | Amanda           | Pun Compatiability View in Internet Evalurer  |                   |
| 2100         | behind the ARTEMIS graphic.  | 1/20/2009               | Michael            |     | Amanua           | Run Compatiability View in Internet Explorer  |                   |
|              | Each Month - Tips dujour   | 3/22/2010               | David              | 2   | David            |   |                   |
|              | Document: Developers Guide   | 3/5/2010                | David              | 2   | Team             |   |                   |
| 4001         | Document: Administrators Guide<br>Incorporate electron calibration into data   | 3/5/2010<br>10/25/2009  | David<br>Vassilis  | 2   | Team<br>Davin    |   | -                 |
|              | Enhanced SST and MOM Instrument Web Pages  | 10/20/2000              | David              |     | Davin            |   |                   |
|              | EAC offsets  | 8/1/2009                | John               | 2   | John B           | John has taken AC coupled data -> he will get me the  |                   |
| 2228         | one outstanding issue with THM_LOAD/THM_CAL_EFI is that for some reason when I ask for the calibrated data in SPG (which should just be adjustment of gains and offsets, and conversion from ADC units to physical units, the code is trying to do some despin operations. Since this has direct impact on my ability to evaluate the EFI data quality,  | 9/3/2009                | John<br>Bonnell    | 1   | John B           | John to review Jim's fix, eta 6/30  |                   |
| 216          | Fix the sign reversal of e34.  | 8/13/2009               | Michael            | tbd | John B           | eta 6/30  |                   |
| 225          | L2 EFI cdf (quality flags)   | 8/31/2004               | Vassilis           | 1   | John B           | Jim M to create master cdf with few new variables.  | -                 |
|              |  |                         |                    |     |                  | John to look at data and describe the criteria for the quality flags. (eta 6/30)                        |                   |
|              | Harald  ASI software - running fine as of 25 May 2010, L1's and mosaics are up-to-date.  |                         |                    |     | Harald           |   |                   |
|              | Thumbnail Data:  |                         |                    |     | Harald           | Updates ready 7-10th of the next month  |                   |
|              | - cdf files done until April 30, 2010  |                         |                    |     |                  |   |                   |
|              | - overview plots done until April 30, 2010<br>- movies done until April 30, 2010   |                         |                    |     |                  |   |                   |
|              | - movies done until April 30, 2010   |                         |                    | +   |                  |   |                   |
|              | Full-resolution raw data:  |                         |                    |     | Harald           |   |                   |
|              | - complete for 2007, 2008, 2009<br>- reasonably complete until mid February 2010   |                         |                    |     |                  |   |                   |
|              | Full resolution data:  |                         |                    | -   | Harald           |   |                   |
|              | - data cdf done for all 2007 and 2008 and mid Nov-2009   |                         |                    |     | Haraiu           |   |                   |
|              | - keogram cdf done for 2007 and 2008 and until mid Nov-2009  |                         |                    |     |                  |   |                   |
|              | Web site mosaics and movies: - 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 and 2008 and until mid-November 2009   |                         |                    |     |                  |   |                   |
|              | - overview plots with thumbnails done until April 30, 2010   |                         |                    |     |                  |   |                   |
| 069d         | UCLA – mirror site set-up  |                         | Vassilis           | 1   | Harald           | UCB has 4 bricks to load for UCLA. In the coming weeks to be ready. After brick transfer UCLA will need |                   |
|              | Hannes   |                         |                    |     |                  | to supply SSH key - RSYNC Key.  |                   |
|              | Hamou  |                         |                    |     |                  |   |                   |
|              | New Calibration FGM parameters and spin axis offsets   | 3/22/2010               | Hannes             | 1   | Hannes           |   |                   |
|              | Attitude Determination changed based on spin tone removals? Ferdinand sent was an attempt on his part to automate the shadow   | 10/19/2009<br>4/14/2010 | Hannes<br>Vassilis | 1 ? | Hannes<br>Hannes | waiting for Jim L 4034a   | -                 |
|              | 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.   | 4/14/2010               | vassilis           | f   | nannes           | waiting for Jim L 4034a   |                   |
|              | New Calibration FGM parameters and spin axis offsets 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 | 5/10/2010<br>5/10/2010  | Hannes<br>Hannes   | 1 2 | Hannes<br>Hannes | in progress Hannes to finish testing his new thm_load_fgm   |                   |
|              | then save the configuration file together with the results and not worry about the things that the software might have done automatically.  Hannes to send everyone his new load FGM program.  |                         | Ve''               |     | 11               |   |                   |
|              | quality flag for FGM data  |                         | Vassilis           | 2   | Hannes           | on hold   |                   |
| 082a         | Spin modeling during shadows BugZid=43   |                         | Vassilis           | 2   | Hannes           | Jim L to write routine. Hannes send info.   |                   |
| 013          | Aaron 2-D, 3-D slices enhancements   |                         |                    |     |                  |   |                   |
|              | Other Distributions: Allow for plots using counts, phase space density, etc (including current dist. options)  |                         |                    |     |                  | crib needs to be completed  |                   |
| 013m         | Bulk Velocity: Load calibrated Ivl2 data, leave 'auto' option but rename   |                         |                    |     | ,                |   |                   |

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| 2013n | More plotting enhancements: plot sun direction  |            |                         |   |       |  |          |
|-------|---|------------|-------------------------|---|-------|--|----------|
|       | plot bulk velocity direction<br>plot zero lines   | İ          |                         |   |       |  |          |
|       | plot max-energy circle  |            |                         |   |       |  |          |
|       | change annotation format change number of ticks   |            |                         |   |       |  |          |
|       | change font/size  |            |                         |   |       |  |          |
| 20130 | New Rotation: add BX, BY, BZ options  |            |                         |   |       |  | 1-3 days |
| 2013p | *(Later) Transform between distribution types w/o re-creating slices  |            |                         |   |       | do before 3-d slices tasks?  | 1 day    |
| 2013q | Create our own version of slicer3.pro that can take user input to setup colors, orientation, etc. when it's called.   |            | Vassilis                | 1 | Aaron |  |          |
| 2013r | Integrate our own slicer3.pro gui with regular 2-D slice plots.   |            | Vassilis                | 1 | Aaron |  |          |
| 2013s | User's Guide write-up and then review with Xuzhi  |            | David                   | 1 | Aaron |  |          |
| 3042  | 33. QA: GUI panel options only updates panel titles on startup. Changes while window is open not applied until it's re-opened.  | 1/15/2010  | Aaron                   | 1 | Aaron |  |          |
| 3046  | Fix labels/change coords for on-board moment velocity plots. Data is DSL, label says GSM  | 1/25/2010  | Vassilis /<br>Miyashita | 1 | Aaron |  |          |
| 3014  | We don't have support for filled symbols. This means symbols are  | 12/11/2009 | Pat                     | 2 | Aaron |  |          |
| 3016  | only outlines.  There is no way to control the variable font size from the variable panel. There was a barrier to adding features to the variable panel when this came up before, in terms of a design that was too complex to modify reliably. When I fixed some previous bugs in this panel I simplified the code considerably. I now think that adding this feature is feasible.   | 12/11/2009 | Pat                     | 2 | Aaron |  | 1 day    |
| 3031  | GUI Overview plots sometimes have diamond shaped artifacts in the sample rate bar. Should fix.  | 1/5/2010   | 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  |
| 3001  | I'm getting a crash in the calculate window after I delete the text in the program area and then click on a data quantity from the tree. The error message is below.  | 12/7/2009  | Aaron                   | 2 | Aaron | found during EFI testing   |          |
| 3079  | 110. GUI spinner widget, inconsistencies between actual and displayed value for very small numbers  | 2/12/2010  | Pat                     | 2 | Aaron | Support exponential notation for very small values   |          |
| 3079a | Spinner Part  | 2/12/2010  | Pat                     | 2 | Aaron |  |          |
| 3079b | FormatAnnotation Part   | 2/12/2010  | Pat                     | 2 | Aaron | The format routine is incorrectly deciding the # of  | 4-5 hrs  |
| 3083  | 137. GUI spinner controls when inputing value >= 2^16/2 in grid thickness spinner, causes error message and value reset to -32768. Pat: Problem is not the spinner. Object definitions using short ints   | 2/16/2010  | Pat                     | 2 | Aaron | Probably short data type used where long required, affects many of the spinner controls                                      | 6-10 hrs |
| 3084  | when long ints should have been used.  139. GUI variable options more status bar/history window updates   | 2/16/2010  | Aaron                   | 2 | Aaron | the only message that ever printed was "1: Cannot Set  | 1-2 hrs  |
|       | needed.   |            |                         |   |       | Value variable, no variables"  |          |
| 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 | Aaron | not allow velocity to go bad   | 1 hr     |
| 1579  | 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                     | 3 | Aaron |  |          |
| 2121  | 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.  |            |                         | 3 | 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                | 3 | Aaron |  |          |
| 2029  | From Hannes   |            | Hannes                  | 3 | Aaron |  |          |
|       | Provided is the most common plot used by scientists that look at  |            | Hannes                  | 3 | 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                  | 3 | 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                  | 3 | Aaron |  |          |
| 2030  | upgrade thm_load to work with probe assignments   |            | Vassilis                | 3 | Aaron |  |          |
| 2031  | move functionality of thm_load_state2 into thm_load_state and delete  |            | Vassilis                | 3 | Aaron |  |          |
| 2032  | thm load state2   |            |                         | - |       |  | -        |
| 2002  | Multiple enhancements concerning keywords, valid_names and thm_load routines  |            | Vassilis                | 3 | Aaron |  |          |
| 2002  | Multiple enhancements concerning keywords, valid_names and  |            | Vassilis                | 3 | Aaron |  |          |

|       | Jim L  |                        |  |     |                                   |  |           |
|-------|--|------------------------|--|-----|-----------------------------------|--|-----------|
| 4030  | cross-check SST psir6 and psif data types for excess counts in psir6   | 4/8/2010               | Jim<br>McFadden                        | 1   | Jim L                             |  |           |
| 4030a | Review Onboard Scripts for possible error.   | 5/17/2010              | Jim Lewis                              | 1   | Jim<br>McFadden,<br>Davin, Robert | ESA and SST scripts reviewed. Doc for scripts received M. Ludlam. Script review in progress with possible flatsat test.  |           |
| 4030b | Correct Existing Data  | 5/17/2010              | Jim                                    | 1   | Abiad<br>Jim L                    | 4030a prerequsite  |           |
| 4030c | If scripts change - make changes to processing scripts   | 5/17/2010              | McFadden<br>Jim Lewis                  | 1   | Jim L                             | 4030a prerequsite  |           |
| 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.  | 4/14/2010              | Vassilis                               | 1   | Jim L                             | send email to Ferdinand for latest code  | 1-2 weeks |
|       | possible 2 sec error in L1 FBK timestamps<br>Figure out whether there's a problem with L1 FBK, and whether L1  | 6/10/2010<br>6/10/2010 | Vassilis<br>Vassilis                   | 1   | Jim L<br>Jim L                    |  |           |
| 4074b | FFT is also susceptible to a similar problem. If necessary, update the L0->L1 processing code, and verify that this fixes the problem  | 6/10/2010              | Vassilis                               | 1   | Jim L                             |  |           |
| 4074c | Build new release of tmtools, reprocess L1 FBK (and if necessary, L1 FFT) for the entire mission.  | 6/10/2010              | Vassilis                               | 1   | Jim L                             |  |           |
|       | Reprocess L2 FBK (and if necessary, L2 FFT)  | 6/10/2010              | Vassilis                               | 1   | Jim M                             |  |           |
| 4034b | only apply eclipse spin model to v02 state leave v01 uncorrected   | 6/20/2010              | Jim L                                  | 1   | Jim L                             |  |           |
| 4027  | In reviewing the metadata in these GOES masters, it seems the value of the global attributes TEXT has gotten cut off   | 4/5/2010               | Tami - SPDF                            | 1   | Jim L                             |  |           |
| 4070  | "Add support to thm_cotrans, ssl2gse, and ssl2dsl for /pseudo_dsl keyword. If keyword is present, look for and apply eclipse delta_phi corrections as appropriate."  | 6/1/2010               | Jim L                                  | 1   | Jim L                             | thm_load_fit and thm_load_mom, add keyword   |           |
| 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                                  | 1   | Jim L                             | 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.   |           |
| 2266  | Timing of Spin Fit data  | 10/16/2009             | Jim<br>McFadden                        | 1   | Jim L                             |  |           |
| 4065  | "detect and ignore (some) bogus SST configurations in L0->L1 processing"? Pat's existing task 3055 should cover the L1->L2 side of it.   | 6/1/2010               | Jim L                                  | 1   | Jim L                             | 128 angles   |           |
| 3048b | spinmodel_interp_t loops over each time segment individually. If we vectorize this operation, we could get serious speed increases. Would generate speedups EFI and for other calibration routines.  | 1/25/2010              | Pat                                    | 1   | Jim L                             |  |           |
|       | integrate time tag fixer-upper with TDAS load routines once in a while (maybe 10-20 occurrences per probe during the entire mission), the FGM range doesn't change on all three axes at once:  | 9/10/2009              | Jim L<br>Jim L                         | 1   | Jim L<br>Jim L                    | see 2149g and h  |           |
| 4020  | Respond to SPDF's email concenting L1 cdf's. Include words as to what is in the L1 cdf's that are not in the L2 cdf's that users may want to use.  | 3/25/2010              | David                                  | 1   | Jim L                             |  |           |
| 4008a | He requested some extra datetime formats. A. Numerical month & time (ie 2007-03-23/00:00:00). this option isn't listed.  | 3/12/2010              | Pat from a scientist (Martin           | 1   | Jim L                             |  |           |
| 4008b | He said there is an ANSI standard to separate date & time using a capital T and requested the option to put datetimes in this format. (ie '2007-03-23T00:00:00')   | 3/12/2010              | Pat from a scientist (Martin Connors?) | 1   | Jim L                             |  | 2 hrs     |
| 4016  | Our "save data as" menu doesn't remember the previous directory > that the user saved to. It could and it should.  | 3/12/2010              | Pat from a scientist (Martin Connors?) | 1   | Jim L                             |  | see above |
| 4022  | Update L1 master cdfs to support SPDF hosting  | 3/25/2010              | David                                  | 2+  | Jim L                             |  |           |
|       | Automate processing of eclipse sunpulse data from FGM team<br>Spin Model reset   | 2/22/2010<br>5/19/2010 | Jim L<br>Hannes                        | 2+  | Jim L<br>Jim L                    |  |           |
| 4040  | Spinfits - separate E&B timestamps?  | 4/15/2010              | Jim L                                  | 2   | 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 | 4/23/2010              | Pat                                    | 2   | 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.   |           |
| 2035  | Spin modeling during shadows BugZid=43 Split L1 ESA (using Thomas's routine) in master ESA data cdf  |                        | Vassilis<br>Vassilis                   | 2 2 | Hannes<br>Jim L                   | Jim L to write routine. Hannes send info.  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). | 3-4 days  |
|       | GOES 10-12 Test data: h. update labels (Howard's request - minor tweak)  |                        | Vassilis                               | 2   | Jim L                             | determine if to be reassigned  |           |
| 2038  | STATE Web Page (s) bad timing sun pulse times (early January 2009)   |                        | Vassilis<br>Vassilis                   | 2   | Jim L<br>Jim L                    | review web pages Clarification needed  | -         |
|       | L1 Data Processing History Info: SCM, EFI, STATE   |                        | Vassilis                               | 2   | Jim L                             |  |           |
| 2043  | Refactor repeated CDF library code in CDF processing tools   |                        | Vassilis                               | 2   | Jim L                             |  | -         |
|       | BugZid=50  |                        |  |     |                                   |  |           |

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| 2046          | Create a more efficient & productive prototype QA Instrument<br>Command Line Script - first template (s) functional blocks then<br>scripts for FGM, ASK, SCM, FIT, MOM, ASI, EFI, FFT, FBK, Gmag,<br>State, SST, ESA   |                              | Vassilis             | 2  | Jim L           | In progress. Several templates created, selecting the appropriate command line routines to test.  |  |
|---------------|--|------------------------------|----------------------|----|-----------------|---|--|
| 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-sL1 processing code d) change the L1-sL2 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) BugzID=45   |                              | Vassilis             | 2  | Jim L           | Discuss with SPDF whether having one variable with multiple data sources is difficult for them  |  |
| 2047a         | FGS sample times and values, showing repeated timestamps.<br>BugzID=113 (BugzID=67 must be done first)   |                              | Vassilis             | 2  | Jim L           |   |  |
| 2047b         | Repeated timestamps and gaps in spin fit data BugZid=113 (#67 may fix this one as well).   |                              | Vassilis             | 2  | Jim L           |   |  |
| 2077          | Non Monotonic timestamps. BugzID=72  |                              | Vassilis             | 2  | Jim L           |   |  |
|               | bau_sunpulse_met assumes x86 endiannes (BugzID=13)   |                              | Vassilis             | 2  | 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.  | 3/2/2010                     | Jim L                | 3+ | 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 fille definition document, at least, does not define the time-tagging conventions to this level of detail.   | 6/11/2010                    | John<br>Bonnell      | 3  | Jim L           |   |  |
| 4023          | Before EOM reprocess L1 cdf's due to master cdf changes for SPDF   | 3/25/2010                    | David                | 3  | Jim L           |   |  |
| 2080          | Phantom packets" cause non-monotonic distribution times.   |                              | Vassilis             | 3  | Jim L           |   |  |
| 2081          | BugzID=25, low priority.  Evaluate CDF compression algorithms BugZid=81  |                              | Vassilis             | 3  | Jim L           |   |  |
| 2083          | Add "last processed" time to L1 (and L2?) CDFs BugZid=115  |                              | Vassilis             | 3  | Jim L           |   |  |
|               | coordinates. ct=time_double('2008-02-16/04:50:00') dipole=[[0],[0],[1]] v=[1,2,3] store_data,'dipole_sm',data={s: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] titl=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   |                              |                      |    |                 |   |  |
| 4000          | Jim M  | 014/0040                     | Um I                 |    | No. 11          | la manage de la de 47th   |  |
| 4061          | Summary Plots Missing in May Reprocess FGM for David Fisher new calibration files  | <b>6/1/2010</b><br>5/17/2010 | Jim L<br>Pat         | 1  | Jim M<br>Jim M  | in progress - missing 15-17th<br>waiting for next fgm reprocessing  |  |
|               | SCM CAL File Processing Doc<br>L2 EFI cdf (quality flags)  | 8/31/2004                    | Vassilis<br>Vassilis | 1  | Jim M<br>Jim M  | 5/21/10 Olivier will review  Test data sent to John B for review by 7/1   |  |
|               | Sort out if TDAS software can run off SPDF cdf's   | 3/5/2010                     | David                | 1  | Jim M           | sent Tami list of Calibration files - Jim M needs to check if zeros directory online  |  |
|               | Paper on interdependentcies of FGM and STATE Reprocessing  | 4/19/2010                    | Pat                  | 1  | Jim L / Jim M   | to review as well. In progress  |  |
|               | Ken Bromund's Processing issues Revise thm_load_fit (command line and GUI) to load the additional L1 variables.  | 6/1/2010<br>3/2/2010         | Ken<br>Jim L         | 1  | Jim M<br>Jim M  | eta 6/7 - 6/11 pre-requisite 3099c test data (Jim L) and awaiting FSW patch from PRH to create test data for 3099-d   |  |
| 3099e         | Revise thm_cal_fit, and thm_cal_efi to do the right thing when EFI-Z is not present.   | 3/2/2010                     | Jim L                | 1  | Jim M           | pre-requisite 3099c test data (Jim L) and awaiting FSW patch from PRH to create test data for 3099-d -  |  |
| 3099f         | Revise the calibration code for the particle data types (ESA, perhaps  | 3/2/2010                     | Jim L                | 1  | Jim M           | pre-requisite 3099c test data (Jim L) and awaiting FSW patch from PRH to create test data for 3099-d - in   |  |
|               | also SST or MOM?) to look for spacecraft potential in L1 FIT, if the moments are decimated   |                              |                      |    |                 | progress; Jim McFadden needs to vet and make a change in one of his programs  |  |
| 3090          |  | 2/22/2010                    | Vassilis             | 1  | Jim<br>McFadden |   |  |
|               | Then one needs to correct the particle distributions to be introduced in the same orientation. I.e., should use the corrected spinphase upon being introduced (on the fly). This means the particle loading software needs to read the above difference between corrected and uncorrected spinphase, and apply a rotation to the distribution functions upon reading. This should be done with a keyword first, and routinely when we get into orbit (by which time the shadow spinphase determinations will hopefully be automated). I think McFadden is the  | 2/22/2010<br>4/12/2010       | Vassilis             | 1  | 1               | change in one of his programs  3089 is prerequisite - Vassilis 4/23: un-rotate the V's from the dphi and the onboard spinphase) and compare with the ground-processed V from the distribution functions. ESA and MOM code to use new features of spin model. In progress and being done in conjunction with 3099f. Jim McFadden needs to  |  |
| 4033b         | moments are decimated  Then one needs to correct the particle distributions to be introduced in the same orientation. I.e., should use the corrected spinphase upon being introduced (on the fly). This means the particle loading software needs to read the above difference between corrected and uncorrected spinphase, and apply a rotation to the distribution functions upon reading. This should be done with a keyword first, and routinely when we get into orbit (by which time the shadow spinphase determinations will hopefully be automated). I think McFadden is the one to do this but he can also assign it.  Add solar wind mode flag to L2 MOM, ESA and SST and then reprocess. Start - Stop Times |                              |                      |    | McFadden        | change in one of his programs  3089 is prerequisite - Vassilis 4/23: un-rotate the V's from the dphi and the onboard spinphase) and compare with the ground-processed V from the distribution functions. ESA and MOM code to use new features of spin model. In progress and being done in conjunction with 3099f. Jim McFadden needs to review.  Pre-requesite 4033a (Jim L) completed. Ask Vassilis |  |
| 4033b<br>4072 | moments are decimated  Then one needs to correct the particle distributions to be introduced in the same orientation. I.e., should use the corrected spinphase upon being introduced (on the fly). This means the particle loading software needs to read the above difference between corrected and uncorrected spinphase, and apply a rotation to the distribution functions upon reading. This should be done with a keyword first, and routinely when we get into orbit (by which time the shadow spinphase determinations will hopefully be automated). I think McFadden is the one to do this but he can also assign it.  Add solar wind mode flag to L2 MOM, ESA and SST and then reprocess. Start - Stop Times | 4/12/2010                    | Team                 | 1  | McFadden  Jim M | change in one of his programs  3089 is prerequisite - Vassilis 4/23: un-rotate the V's from the dphi and the onboard spinphase) and compare with the ground-processed V from the distribution functions. ESA and MOM code to use new features of spin model. In progress and being done in conjunction with 3099f. Jim McFadden needs to review.  Pre-requesite 4033a (Jim L) completed. Ask Vassilis |  |

|  | 47. CL specplot missing peib data for tests 25 and 26  | 1/15/2010            | Jim M   | 1  | Jim M   | Data exists, but isn't plotted for some reason.   |        |
|--|--|----------------------|---|--|---|---|--------|
| 3015   | The data processing panel doesn't allow split components. This is  | 12/11/2009           | Pat   | 1  | Jim M   | Jim M to assess only  | tbd    |
|  | fine for some operations, even required, but for some operations this  |                      |   |  |   |   |        |
|  | doesn't make sense. For example, clipping. There is a good chance  |                      |   |  |   |   |        |
|  | that some people will want to clip each component at separate  |                      |   |  |   |   |        |
|  | values.  |                      |   |  |   |   |        |
| 3085   | 138. GUI SCM cotrans inconsistent results depending on   | 2/18/2010            | Jim M   | 1  | Jim M   | Also should check if same problem exists with   | 1 week |
|  | starting/ending coordinate systems. Pass warning through to GUI  |                      |   |  | •   | command line? Will take time to look at code to get an  |        |
|  |  |                      |   |  |   | aetimata  |        |
| 4038   | A grad student brought my attention to some missing on-board   | 4/15/2010            | Pat   | 1  | Jim M   | ESA had bad packets around that time  | tbd    |
|  | moment plots for September/October 2007, THEMIS A (See   |                      |   |  |   |   |        |
|  | September 23) I ran the routine to generate the plots on my computer   |                      |   |  |   |   |        |
|  | and it worked fine so I think that the plots are missing because either #1 The data arrived late or #2 The script to generate the plots had bug  |                      |   |  |   |   |        |
|  | that was subsequently fixed. I think we may just want to reprocess   |                      |   |  |   |   |        |
|  | the space based moments for that time.   |                      |   |  |   |   |        |
|  |  |                      |   |  |   |   |        |
| 4042   | Script to run every two weeks to runs IDL TDAS and checks if a file  | 4/19/2010            | Pat   | 2+   | Jim M   |   |        |
|  | can be loaded from THEMIS SPDF file (s)  |                      |   |  |   |   |        |
| 2227   | L2 SST cdf revisions   | 8/31/2004            | Vassilis  | 2+   | Jim M   | awaiting SST calibrations   |        |
|  |  |                      |   |  |   |   |        |
| 4056   | EFI and SST Calibration Documents  | 4/30/2010            | David   | 2  | Jim M   |   |        |
| 2288   | had expected that this cotrans would occur at the very end, after all  | 11/12/2009           | Jim   | 2  | Jim M   | see 2256  |        |
| 2283   | There is another aspect to this problem. Dead-time corrections are   | 11/2/2009            | Jim   | 2  | Jim M   |   |        |
|  | severe for ion ESA SW data and there are no dead-time corrections  |                      | Mcfadden  |  |   |   |        |
| 2058   | found 3 errors in the new th*_I2_esa masters - the good news is, with  |                      | Vassilis  | 2  | Jim M   |   |        |
|  | them fixed in our masters, all plotting issues w/ the ESA files (in  |                      |   |  |   |   |        |
|  | CDAWeb) seem to have been resolved.  |                      |   |  |   |   |        |
| 2060   | L2 cdf Quality Flags: for SST  |                      | Vassilis  | 2  | Jim M   |   |        |
|  | 1  |                      |   |  |   |   |        |
| 2175   | L2 File Definitions Document   |                      | David   | 2  | Jim M   |   |        |
| 2062   | Alberta - At the moment the data files are from Dawson (daws),   |                      | Vassilis  | 2  | Jim M   |   |        |
|  | 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   |                      |   |  |   |   |        |
| 2087   | Administrator's Guide  |                      | Vassilis<br>Vassilis  | 2  | Jim M<br>Jim M  |   |        |
| 2224   | Themis Developers Guide thm_load_mom: for quantities like velocity, the coordinate system  |                      | Vassilis  | 2  | Jim M   |   |        |
| 2224   | isn't stored in the meta data, and none of the units are stored in the   |                      | v assilis   |  | JIIII IVI   |   |        |
|  | place we normally try to store them (from Pat - Vassilis concurs) Will   |                      |   |  |   |   |        |
|  | take a look.   |                      |   |  |   |   |        |
|  | take a look.   |                      |   |  |   |   |        |
|  |  |                      | i   | 1 8  |   | :   |        |
| 2090   | that streamlines the generation of gmag stackplots and a crib to   |                      | Vassilis  | 2  | Jim M   |   |        |
| 2090   | that streamlines the generation of gmag stackplots and a crib to show how to do this. (< than a day)   |                      | Vassilis  | 2  | Jim M   |   |        |
| 2090   | that streamlines the generation of gmag stackplots and a crib to show how to do this. (< than a day)   |                      | Vassilis  | 2  | Jim M   |   |        |
| 2090   |  |                      | Vassilis  | 2  | Jim M   |   |        |
|  | show how to do this. (< than a day)  |                      |   |  |   |   |        |
| 2090   |  |                      | Vassilis<br>Vassilis  | 2  | Jim M<br>Jim M  |   |        |
| 2091   | show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission   |                      |   |  |   |   |        |
| 2091   | show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess   |                      | Vassilis  | 2  | Jim M   |   |        |
| 2091   | show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an  |                      | Vassilis  | 2  | Jim M   | On Hold; awaiting Jim L to split L1 into master cdf   |        |
| 2091   | show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time.  |                      | Vassilis<br>Vassilis  | 2  | Jim M<br>Jim M  | On Hold; awaiting Jim L to split L1 into master cdf   |        |
| 2091<br>2092<br>2055   | show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time.  ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  | 3/5/2010             | Vassilis Vassilis Vassilis  | 2 2  | Jim M<br>Jim M<br>Jim M   | On Hold; awaiting Jim L to split L1 into master cdf   |        |
| 2091<br>2092<br>2055   | show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time.  ESA L2 from L1 (not packets) - create L2 and test thoroughly, then  | 3/5/2010             | Vassilis<br>Vassilis  | 2  | Jim M<br>Jim M  | On Hold; awaiting Jim L to split L1 into master cdf   |        |
| 2091<br>2092<br>2055<br>4002   | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdfs - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time.  ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing   |                      | Vassilis Vassilis Vassilis David  | 2 2 2  | Jim M Jim M Jim M Jim M   | On Hold; awaiting Jim L to split L1 into master cdf   |        |
| 2091<br>2092<br>2055<br>4002<br>4003   | show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time.  ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing  Document: ESA File and Calibation Processing  | 3/5/2010<br>3/5/2010 | Vassilis Vassilis Vassilis David  | 2 2 2 2  | Jim M Jim M Jim M Jim M Jim M   | On Hold; awaiting Jim L to split L1 into master cdf   |        |
| 2091<br>2092<br>2055<br>4002<br>4003<br>2093   | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time.  ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing  Document: ESA File and Calibation Processing  AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis:  |                      | Vassilis Vassilis Vassilis David David Vassilis   | 2 2 2 2 3  | Jim M  Jim M  Jim M  Jim M  Jim M  Jim M  |   |        |
| 2091<br>2092<br>2055<br>4002<br>4003<br>2093<br>2094   | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time.  ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing  Document: ESA File and Calibation Processing  AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes-Vassilis: Overview plot change: mode bar seems thick  |                      | Vassilis Vassilis Vassilis David David Vassilis Vassilis  | 2 2 2 3 3 3  | Jim M  | On Hold; awaiting Jim L to split L1 into master cdf  nothing we can do easily   |        |
| 2091<br>2092<br>2055<br>4002<br>4003<br>2093<br>2094<br>2095   | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time.  ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing  Document: ESA File and Calibation Processing  AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis:  |                      | Vassilis Vassilis Vassilis David David Vassilis   | 2 2 2 2 3  | Jim M  Jim M  Jim M  Jim M  Jim M  Jim M  |   |        |
| 2091<br>2092<br>2055<br>4002<br>4003<br>2093<br>2094<br>2095   | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time. ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing Document: ESA File and Calibation Processing AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: Overview plot change: mode bar seems thick Mosaic Processing - permanent script needed  |                      | Vassilis Vassilis Vassilis David David Vassilis Vassilis Vassilis   | 2<br>2<br>2<br>2<br>3<br>3<br>3  | Jim M   |   |        |
| 2091<br>2092<br>2055<br>4002<br>4003<br>2093<br>2094<br>2095<br>2100   | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time. ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing Document: ESA File and Calibation Processing AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: Overview plot change: mode bar seems thick Mosaic Processing - permanent script needed  |                      | Vassilis Vassilis Vassilis David David Vassilis Vassilis Vassilis John  | 2<br>2<br>2<br>2<br>3<br>3<br>3  | Jim M   |   |        |
| 2091<br>2092<br>2055<br>4002<br>4003<br>2093<br>2094<br>2095<br>2100   | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time. ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing Document: ESA File and Calibation Processing AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: Overview plot change: mode bar seems thick Mosaic Processing - permanent script needed EFI calibration  DC offset between 4sdo and 2sdo in boom plane   |                      | Vassilis Vassilis Vassilis David David Vassilis Vassilis Vassilis John Bonnell  | 2<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>3<br>3   | Jim M   | nothing we can do easily  Which is better? Assigned to J. B. (low priority).  |        |
| 2091<br>2092<br>2055<br>4002<br>4003<br>2093<br>2094<br>2095<br>2100<br>2100d                                  | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time.  ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing  Document: ESA File and Calibation Processing AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes-Vassilis: Overview plot change: mode bar seems thick Mosaic Processing - permanent script needed  EFI calibration  DC offset between 4sdo and 2sdo in boom plane  Try to track down frequency scaling problem in DPWRSPC (dlimit   |                      | Vassilis  Vassilis  Vassilis  David  David  Vassilis  Vassilis  Vassilis  John  Bonnell  John  Bonnell  John  | 2<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>3  | Jim M  | nothing we can do easily  |        |
| 2091<br>2092<br>2055<br>4002<br>4003<br>2093<br>2094<br>2095<br>2100<br>2100d                                  | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time.  ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing  Document: ESA File and Calibation Processing  AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: Overview plot change: mode bar seems thick  Mosaic Processing - permanent script needed  EFI calibration  DC offset between 4sdo and 2sdo in boom plane  Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?).   |                      | Vassilis Vassilis Vassilis David David Vassilis Vassilis Vassilis John Bonnell John Bonnell   | 2<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3  | Jim M  | nothing we can do easily  Which is better? Assigned to J. B. (low priority).  |        |
| 2091<br>2092<br>2055<br>4002<br>4003<br>2093<br>2094<br>2095<br>2100<br>2100d                                  | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time.  ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing  Document: ESA File and Calibation Processing AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: Overview plot change: mode bar seems thick Mosaic Processing - permanent script needed EFI calibration  DC offset between 4sdo and 2sdo in boom plane  Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?).  Modify THM_CAL_FIT to treat efs datatype - Install E12/E34  |                      | Vassilis Vassilis Vassilis David David Vassilis Vassilis Vassilis John Bonnell John Bonnell John Bonnell John   | 2<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>3<br>3   | Jim M   | nothing we can do easily  Which is better? Assigned to J. B. (low priority).  |        |
| 2091<br>2092<br>2055<br>4002<br>4003<br>2093<br>2094<br>2095<br>2100<br>2100d                                  | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time. ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing  Document: ESA File and Calibation Processing AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes-Vassilis: Overview plot change: mode bar seems thick Mosaic Processing - permanent script needed EFI calibration  DC offset between 4sdo and 2sdo in boom plane  Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). Modify THM_CAL_FIT to treat efs datatype - Install E12/E34 conditional based on th?_fit_code TPLOT variable. If E12 switched to  |                      | Vassilis Vassilis Vassilis  David  David Vassilis Vassilis Vassilis John Bonnell John Bonnell   | 2<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3  | Jim M  | nothing we can do easily  Which is better? Assigned to J. B. (low priority).  |        |
| 2091<br>2092<br>2055<br>4002<br>4003<br>2093<br>2094<br>2095<br>2100<br>2100d                                  | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time.  ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing  Document: ESA File and Calibation Processing AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: Overview plot change: mode bar seems thick Mosaic Processing - permanent script needed EFI calibration  DC offset between 4sdo and 2sdo in boom plane  Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?).  Modify THM_CAL_FIT to treat efs datatype - Install E12/E34  |                      | Vassilis Vassilis Vassilis David David Vassilis Vassilis Vassilis John Bonnell John Bonnell John Bonnell John   | 2<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3  | Jim M  | nothing we can do easily  Which is better? Assigned to J. B. (low priority).  |        |
| 2091<br>2092<br>2055<br>4002<br>4003<br>2093<br>2094<br>2095<br>2100<br>2100d                                  | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time. ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing  Document: ESA File and Calibation Processing AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes-Vassilis: Overview plot change: mode bar seems thick Mosaic Processing - permanent script needed EFI calibration  DC offset between 4sdo and 2sdo in boom plane  Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?). Modify THM_CAL_FIT to treat efs datatype - Install E12/E34 conditional based on th?_fit_code TPLOT variable. If E12 switched to  |                      | Vassilis Vassilis Vassilis David David Vassilis Vassilis Vassilis John Bonnell John Bonnell John Bonnell John   | 2<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3  | Jim M  | nothing we can do easily  Which is better? Assigned to J. B. (low priority).  |        |
| 2091<br>2092<br>2055<br>4002<br>4003<br>2093<br>2094<br>2095<br>2100<br>2100h<br>2100p                         | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdf's - entire mission thm load_mom changes - reconcile mods with Davin at an appropriate time.  ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing  Document: ESA File and Calibation Processing AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes- Vassilis: Overview plot change: mode bar seems thick Mosaic Processing - permanent script needed EFI calibration  DC offset between 4sdo and 2sdo in boom plane  Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?).  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  | 3/5/2010             | Vassilis Vassilis Vassilis David David Vassilis Vassilis Vassilis John Bonnell John Bonnell John Bonnell John Bonnell John Bonnell  | 2<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3   | Jim M  | nothing we can do easily  Which is better? Assigned to J. B. (low priority).  On Hold - low priority  |        |
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| 2091<br>2092<br>2055<br>4002<br>4003<br>2094<br>2095<br>21000<br>2100p<br>4064<br>4064<br>2069<br>2069a        | Show how to do this. (< than a day)  Once Jim McFadden completes his mods for n_3d_new_3 reprocess L2 cdfs - entire mission thm_load_mom changes - reconcile mods with Davin at an appropriate time.  ESA L2 from L1 (not packets) - create L2 and test thoroughly, then reprocess ESA  Document: SST File and Calibation Processing  Document: ESA File and Calibation Processing  AE Indexes Issue Jan 8-12, keyograms Jan 12-13, Stripes-Vassilis: Overview plot change: mode bar seems thick  Mosaic Processing - permanent script needed  EFI calibration  DC offset between 4sdo and 2sdo in boom plane  Try to track down frequency scaling problem in DPWRSPC (dlimit setting? Compare to old plots?).  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  Pat  Orbit plots missing - script updates needed to reprocess when STATE changes Prep for GEM - June 2010 Support Mirror Sites   | 3/5/2010             | Vassilis Vassilis Vassilis  David David Vassilis Vassilis Vassilis John Bonnell John Bonnell John Bonnell John Bonnell John Bonnell John Bonnell Vassilis   | 2<br>2<br>2<br>2<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3  | Jim M  Pat  Pat / Cindy  Pat                       | nothing we can do easily  Which is better? Assigned to J. B. (low priority).  On Hold - low priority  |        |
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|       |  |            |             | - |     | 10   |         |
|-------|--|------------|-------------|---|-----|--|---------|
| 20706 | Greenland - I think the following stations in our archives are essentially unusable scientifically (non calibrated-mis labeled): nrsq amk atu dmh dnb gdh kuv naq nrd sco skt stf svs thl umq upn Following up with DTU on ways to correct. ***Periodic Download - go for it ***Old data not calibrated - what to do? ***Release Greenland to SPDF? Integrate into load routines (yes)   |            | Vassilis    | 2 | Pat | On #1 Is there any way for us to calibrate the DMI data - answer is NO. Basically what he's saying is that all our old greenland data is in raw format, but none of our documentation is labeled to indicate this. Someone could easily use the greenland data by accident and think that it is actually calibrated. Replacing the old data with calibrated data would be the best option, but we may not be able do that for all dates/sites. For the remainder we should probably have very clear documentation, or maybe not distribute the data at all. Without calibrations it shouldn't be used to do science.  On #2 I think HDZ is the format we want, but we generally convert H into nT. Just to verify, the conversion is(for tangent function taking radians): D(nT) = H*tan(D/60 * pi/180) Correct? Pat must do analysis - will take a bit of time. |         |
| 3033  | GBO rsync from U Calagary is failing. Contacting Emma Spanswick to determine source of problem.  | 1/5/2010   | Pat/Jim M   | 0 | Pat | SNAP - only one still missing per Emma,  |         |
|       | U Alaska all working   | 12/7/2009  | Jim M       | 0 | Pat |  |         |
| 2265  | When new FGM Cal files come from David Fisher reprocess last 6 months.   | 10/16/2009 | Pat         | 0 | Pat | awaiting next FGM reprocessing   |         |
| 4052  | Martin informed us that he should be listed in the acknowledgments for the INUV(Inuvik), somehow his magnetometer got mixed in with the THEMIS gmags as UCalgary. As in the previous task, Martin will deliver new meta data as an amended master cdf or text file. Then we will need to reprocess the Inuvik data using the new master so that it reflects the correct attribution.   | 4/27/2010  | Vassilis    | 0 | Pat |  |         |
| 4059  | The coordinate system of the THEMIS GBO gmags. The CDF says HDZ but the crib says XYZ. I think we probably need to update the crib.  | 5/13/2010  | Pat         | 1 | Pat |  |         |
| 3025  | SST Code development   | 12/18/2009 | Davin       | 1 | Pat |  |         |
| 3025a | Determine scales and offsets for correcting on-board moments to match ground based moments during solar wind mode.   |            |             |   | Pat |  |         |
| 3025b | Determine when spacecraft is in solar wind mode, and apply corrections.  |            |             |   |     | Jim L 4033a completed - this is ready to be worked   |         |
| 3055  | Debug source code from Davin to determine source of crash  | 12/18/2009 | Davin       | 1 | Pat | bugs are fixed - few mods needed to review with<br>Davin, crib, Suites, Scripts and Doc updates  |         |
| 4068  | Lynn Wilson possible enhancements  | 6/1/2010   | Lynn Wilson | 1 | Pat | Review Lynn's software and generate list of features   |         |
| 4051a | Vassilis asked me to email you about adding a task to add 4 magnetometers(PI: Martin Connors) to our data archives so that their data can be accessed via TDAS.(CL & GUI) The files are already in the RMD format, which is the raw format of our other ground magnetometer data. The task would involve small modifications to our existing scripts to accommodate periodic rsyncs to this new location, and a one time retrieval of past archives from the new location. To accomplish this task we'll require a delivery from Martin of either master cdfs or a text file with appropriate meta-data for these sites, and that they add our a public key that we provide to their list of authorized ssh keys on their archive server. The new gmags abbreviations are: LARG, LETH, ROTH, & REDR. | 4/27/2010  | Vassilis    | 1 | Pat | In progress. The new gmags abbreviations are: LARG,LETH,ROTH, & REDR.  |         |
| 4035  | When you do a coordinate transform on data, the variable name is updated, but the y-axis label for the variable stays the same. I'm not sure if picking apart the labels to search for coordinate systems is a business that we want to get into, but as it is a common outcome is to generate data whose default labels are incorrect.  | 4/14/2010  | Pat         | 1 | Pat |  | 4-5 hrs |
| 3043  | 36. GUI interpolate error with multiple quantities selected and one is out of range bad item not skipped, following items not processed.   | 1/15/2010  | Pat         | 1 | Pat | #2 Loaded data for data 2007-03-24. Types: efi_vaw, tha_fgl_dsl,tha_fgh_dsl. Make all data active. In the order above(I believe exact order is important). Open interpolate panel, select "cadence" radio button, leave at default, select limit time, leave at default for quantity vaw(2007-03-24/22:47:06,2007-03-24:22:47:22). Select "Okay", it processes first quantity, then second quantity is out of range, produces error but does not process 3rd quantity(fgh). It should skip over #2.  |         |
| 3044  | 38. QA: GUI interpolate Interpolating state data to match efi_vaw, "data out of range" error if no state samples fall within the efi_vaw time range.   | 1/15/2010  | Pat         | 1 | Pat | #4 Date 2007-03-24, data efi_vaw, tha_state_pos. Make state active. Select "interpolate", select "match" match to quantity "efi_vaw", select "extrapolate" Select limit time range, select range for efi_vaw (2007-03- 24/22:47:06,2007-03-24:22:47:22): Says no data in range. What is happening here is that there are state points on either side of the vaw interval, but no points inside the interval. Perhaps one possibility where time is limited & matching is being done, maybe it should limit based upon the range of the match quantity and not the range of the target?   |         |
| 3048a | Profiled EFI calibration can speed up by reducing the number of calls to spinmodel_interp_t. Right now >95% of time is spent in spinmodel. It calls spinmodel_interp_t 2x for each 3d data type, could probably use a single call for multiple data types with the same cadence.   | 1/25/2010  | Pat         | 1 | Pat |  |         |
| 3052  | The last time we have GBO data is 1/12/10  | 2/2/2010   | K. Rowe     | 1 | Pat | the gap to the end of the month  |         |
|       |  |            | <u> </u>    |   |     |  |         |

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| 3058 | The size of the windows created by the widgets in IDL for the SCM  | 2/5/2010   | Lynn Wilson       | 1  | Pat |  |       |
|------|--|------------|-------------------|----|-----|--|-------|
|      | rnte size of the windows cleated by the widgets in IDL for the SCM instrument are too big (at least they were on mine). It was easily remedied by changing the size of the boxes allocated in the probe/Level-1/Level-2 lists in the program thm_ui_scmcal.pro. I simply altered the value passed to   | 21312010   | Lynn vviisuri     | 1  | ral |  |       |
|      | the YSIZ keyword in the WIDGET_LIST function call (lines 610 - 628, I think).  |            |                   |    |     |  |       |
| 3068 | 120. GUI GMAG cotrans error, says coordinate system is undefined   | 2/11/2010  | Pat               | 1  |     |  |       |
|      | make the load panel(and other panels) remember users' previous selections. Some of our panels already do this, but implementation is not consistent.   | 5/19/2010  | Martin<br>Conners | 1  | Pat |  |       |
|      | 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.  | 3/22/2010  | Pat               | 2+ | Pat | Jim M: I have no trouble with EFF data either for linux or windows.  |       |
|      | For the beta and official sites we want to add a button at the bottom to the right of the existing two buttons. Official site web page url: http://themis.ssl.berkeley.edu/summary.shtml?autoload=1 Please center the 3 buttons. The new button will have the words "Plot Descriptions" and if clicked will link to the following: ftp://apollo.ssl.berkeley.edu/pub/THEMIS/3 Ground Systems/3.2 Science Operations/Science Operations Documents/THEMIS Summary Plot Description Tables  | 4/19/2010  | Pat               | 2  | Pat |  |       |
| 3053 | 102. Tplot_gui overwrite warning when importing data, even if variable gets renamed.   | 2/3/2010   | Pat               | 2  | Pat |  |       |
|      | 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]   |            |                   | 2  | Pat |  |       |
|      | if you want to load a template, you need to pass the template path in<br>via a keyword, or select an option to open it from the THEMIS->File<br>Menu. I think we should consider adding the template path to the<br>configuration file that we save, so that it can be loaded automatically.   | 10/19/2009 | Pat               | 2  | Pat |  | 16    |
| 4013 | Plot Description Doc Button  | 3/22/2010  | David             | 2  | Pat |  | 40    |
|      | 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 1 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. | 7/20/2009  | Aaron             | 2  | 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 |       |
|      | 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.   | 8/5/2009   | Pat               | 2  | Pat |  |       |
|      | I noticed a bug in the x-axis options panel. It probably also applies to the y-axis options. If the set-all button is selected on the grid tab, then changing panels doesn't update the settings on the grid tab to the settings currently displayed for that panel.   | 7/29/2009  | Pat               | 2  | Pat | set to most recent user action for all routines  |       |
| 2041 | thm_load_state out_coord velocity calculations wrong   |            | Vassilis          | 2  | Pat |  |       |
|      | 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.  | 11/4/2009  | Christine         | 2  | Pat |  |       |
|      | add MACCS gmag data from 2007 to our data archive. We already have MACCS data for some years and a process that automatically downloads it/converts to CDF. So the task would involve finding missing files from 2007 and feeding them into our pre-existing processing framework. It should be pretty straightforward, but probably non-trivial because of learning curve/unexpected details.   | 2/19/2010  | James<br>Weygand  | 2  | 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.  | 2/22/2010  | Vassilis          | 2  | Pat |  | 8 hrs |
|      | 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.  | 2/10/2010  | Aaron             | 3  | Pat | chech draw object  | 4 hrs |
|      |  |            | · ·               |    |     |  | L     |

|      | add the following ancillary ground-based observations: MAGDAS Network, Auroral Electrojets (AE) and Ground Radars ( SuperDarn, AMISR and Sondrestorm)   | 3/8/2010   | David     | 3 | Pat |  |             |
|------|---|------------|-----------|---|-----|--|-------------|
| 3007 | EPO-GMAG msgs: modify the script and only issue this message if > 2 days  | 12/8/2009  | David     | 3 | Pat |  |             |
| 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?  | 10/23/2009 | Tim       | 3 | 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 | 3 | 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       | 3 | 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     | 3 | Pat | verify note in quick reference guide and then task will<br>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       | 3 | 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.   | 8/27/2009  | Pat       | 3 | Pat |  | 4-8 hrs     |
| 3063 | 40. CL tplot options setposition test plots all look the same   | 1/15/2010  | Pat       | 3 | Pat | Long-standing tplot bug, may not ever be fixed   | 4 hrs       |
| 4029 | One of Michael Hartinger (a grad student in atmos) is having trouble Misc   | 4/6/2010   | Michael   | 3 | Pat | Michael supplied code for thm_part_moments   |             |
| 447  | Save THEMIS document: Attempting to save to a read only file in Windows outputs the correct error message, but IDL crashes immediately afterwards.  |            |           | 1 |     | IDL Error report to ITT  | 16-24 hours |