| Task # | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | Estimate | A&E | Crib | QA Suite or Script | UG | Qref | Adm Guide |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **To be Assigned or Discussed** | | | | | | | | | | | | |
| 4447 | Widget behaviour in Unix - recenter on screen | 6/29/11 | Lydia | ? | ? | | | | | | | | |
| 4449 | Overview plots - web behaviour | 12/30/11 | Pat | 0 | ? | | | | | | | | |
| 4452 | Peter Shroder changes - discuss if okay to commit | 12/2/11 | Jim M | | Jim M | | | | | | | | |
| | **Oldies for Discussion - Du Jour** | | | | | | | | | | | | |
| 808 | IDL Format Code -currently have no way to insert a different font in the middle of a string (e.g. adding a symbol to a string in NewTimesRoman). Possibly enable formatting like we did for the z axis labels | | Oldie | | | | 1 day | | | | | | |
| 810 | Replace the Set All Panel checkbox, with an 'Apply All' button at the bottom of the window. More intuitive. Need to check all panels for consistency | | Oldie | | | | 4 hrs | | | | | | |
| 811 | Add capability for user to elect not to use all features, maybe an 'Advanced' check box. This would provide the power to the user when needed, but defaults to a simpler, faster way to plot. less | | Oldie | | | | | | | | | | |
| 923 | Scrolling issue with rubberbanding | | Jim M | | | discussion - 1 day to investigate, need original notes | | | | | | | |
| 928 | Ticks/Margin Spinners When setting the Ticks and Margin spinners to decimal values, it appears the code truncates the value entered (i.e. 5.99 becomes 5). But the spinner should be updated upon Apply to update to the truncated value.  Suggest low priorit | | Bryan | | | | | | | | | | |
| 933 | Web forms allow users to go to the next text input box with a tab.  Can we do that on our widgets?  E.g., the GUI_TPLOT Verify Data would work well that way. | | Michael | | | | | | | | | | |
| 943 | Getspec window is slightly larger than my 1024x768 screen.  Minor issue, probably a Phase 2 task. The vertical size of the Loaded Data pane in the Data Processing window is not consistent across platforms.  On my linux box, it's only about half the height | | Bryan | | | | 1 day | | | | | | |
| 949 | Page Options - Text tab: Step 6q (enter negative numbers for font sizes): Title and Footer font size spinners don't give a warning for size < 0. None of the font size spinners revert to the last valid value if a negative number is entered. Step 6r (enter | | Jim L | | | Title Footer - messages output are confusing, always says panel spacing changed. Need to buffer messages. Need to inform user negative value not accepted | | | | | | | |
| 955 | Incorporate user profiles - Have a configuration panel that lets you set default values (e.g. a user always wants annotation time style to be of a certain format, size, or fon)t. This way they don't have to change everything everytime they start a new ses | | Marissa | | | | 2.5 weeks | | | | | | |
| 959 | When removing a middle panel with locked axes on and you have more than 2 panels, the space the removed panel occupied is drawn blank, rather than moving the panels below it up. | | Cindy | | | | 2 days | | | | | | |
| | **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 | **new Arthemis offsets sent to Karl-Heinz on 11/21/11; reporcessing after AGU for the STATE** | | | | | | | |
| 4080 | Attitude Determination next few months | 6/21/10 | Hannes | 1 | Hannes | | | | | | | | |
| | **Aaron** | | | | | | | | | | | | |

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| 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 | 1 | Aaron | verify note in quick reference and users guide and then task will be closed - in progress | | | | | | | |
| 4441 | bugs in tplots handling of labels | 11/23/11 | Aaron | 1 | Aaron | | | | | | | | |
| 4441a | It looks like the LABFLAG option, which controls where y-azis labels are placed in tplot, is not applied correctly for compound variables. Specifically, the option to draw evenly spaced labels doesn't account for the labels from all the component tplot variables and end up drawing them on top of each other. | 11/23/11 | Aaron | 1 | Aaron | in progress | 2 hrs | | | | | | |
| 4441b | The option to specify the label position on a line plot only works if the LABFLAG keyword was never set. There should be a specific value it can be set to to allow the user to specify the label positions. | 11/23/11 | Aaron | 1 | Aaron | in progress | 1 hr | | | | | | |
| 4450 | the gui's prompt widget drops a number of unwanted messages, such as which button was selected, into the status bar. These should be sent to the history window instead as the users will have no use for them but they could be helpful for debugging. | 12/1/11 | Aaron | 1 | Aaron | | 1/2 hr | | | | | | |
| **Ben** | | | | | | | | | | | | | |
| 4403 | clean up SST data from 4385 (Jim L) | 10/17/11 | Jim L | 1 | Ben | | | | | | | | |
| 4403a | implement a tool to clean up particle distribution CDFs as described below | 10/17/11 | Jim L | 1 | Ben | | | | | | | | |
| 4403b | integration with process_lzp_dir (L0->L1) pipeline | 10/17/11 | Jim L | 1 | Ben | qa testing coming | | | | | | | |
| 4403d | run a few simple tests of the data analysis routines. create some tplot variables which have been manipulated to contain repeated or out-of-order time tags, import them into the GUI, and run them through the various analysis routines to see if anything breaks. | 10/17/11 | Jim L | 1 | Ben | | | | | | | | |
| 4403c | reprocess entire mission to clean up L1 ESA and SST product | 10/17/11 | Jim L | 1 | Ben | wait until after AGU (12/11) - subset into QA | | | | | | | |
| 4437 | Move Ephemeris Processing to TMTOOLS. | 11/17/11 | Jim L | 1 | Ben | in progress - starting up | | | | | | | |
| 2149g | write a routine to check time tag monotonicity and repair tplot variable if necessary ("replace with NaN" and "delete") - **Specifically checkout the esa pkt issue from Shanshan. Check other programs for similar code.** | | 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. **(repair monotonicity of time tags) has been discussed with Jim and the work will start asap, followed by the repair routine's integration with TDAS (Task 2149h).** | | | | | | | |
| 2149h | integrate time tag fixer-upper with TDAS analysis routines | | Jim L | 2 | Ben | survey of TDAS GUI routines. recommended command line spec plots - none crash, repeats replaced by nan's | | | | | | | |
| **Jim L** | | | | | | | | | | | | | |
| 4444c | understanding from the responses from Tami et al is that the logical_file_id attribute should be the filename not the mastercdf name. | 11/23/11 | Lydia | 0 | Jim L | Check L1 | | | | | | | |
| | For the cases where the logical_file_id is currently set to be the filename we should ignore the warning from SKTEditor that this is incorrect. | 11/23/11 | Lydia | 0 | Jim L | | | | | | | | |
| | Where the logical_file_id is set to the mastercdf name we should fix it. This is a minor issue (as the EPOCH problem was). I think I need to add another fix to cdf_save_vars so that it updates the logical_file_id to be the filename. | 11/23/11 | Lydia | 0 | Jim L | | | | | | | | |

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| 4369 | THEMIS Leap Second Discussion | 9/15/11 | Vassilis - Jim L | 0 | Jim L | draft document published. **Awaiting feedback from Harald** | | | | | | | |
| 4034a2 | thm_parts_moments update (spin moments mods) | 11/22/10 | Vassilis | 1 | Jim L | **initial simple way, final fix is to fix esa and sst 3D data structures** | 3-4 weeks depending on pri zero tasks | | | | | | |
| 4326b | Then for Particles and Spin Fits | 8/18/11 | Vassilis | 0 | Jim L | **in progress - dependent on 4034a2** | | | | | | | |
| | **Jim M** | | | | | | | | | | | | |
| 4419 | Reprocess overview plots with automated sun contamination removal? | 10/26/11 | Pat | 0 | Jim M | **11/28/11: Low priority 150-200mgs/day memory leak and send email to sysadmin concerning the 96mgs(?) of RAM.** | | | | | | | |
| 4444d | understanding from the responses from Tami et al is that the logical_file_id attribute should be the filename not the mastercdf name. | 11/23/11 | Lydia | 0 | Jim M | **Check L2 - discuss 12/12** | | | | | | | |
| | For the cases where the logical_file_id is currently set to be the filename we should ignore the warning from SKTEditor that this is incorrect. | 11/23/11 | Lydia | 0 | Jim M | | | | | | | | |
| | Where the logical_file_id is set to the mastercdf name we should fix it. This is a minor issue (as the EPOCH problem was). I think I need to add another fix to cdf_save_vars so that it updates the logical_file_id to be the filename. | 11/23/11 | Lydia | 0 | Jim M | | | | | | | | |
| 4446 | Analysis of what is needed to reconcile Jim McFaddens and TDAS ESA packet software | 11/28/11 | David | 0 | Jim M | **when you need a break from 4365** | | | | | | | |
| 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 M | steps: Create the Table Image, Create the CDI Commands, Create the IDPU Commands, Create the raw packets that go to the MOC for uplink  **Have code for reading maps into memory, working on outputting IDPU commands.** | | | | | | | |
| | **Lydia** | | | | | | | | | | | | |
| 4409 | AE Stations: I am interested in including the "standard AE ground stations" i.e. the ones that go into the computation of the AE index - there are 12 - into the THEMIS pipeline. This is because we can then include them into the computation of our own pseudoAE. They include: FCC: Fort Churchill, LRV: Leirvorgur, a couple in Russia and one in Scandinavia etc. They should be available somehow. The ones in Russia have been made available through APL, and THEMIS has contributed to their refurbishment. I think we have established communication with APL's Kazue Takahashi and he said a couple of years ago that routine delivery of the Russian stations was impending. So by now they should be ready…I think he should be a good source of information about the other stations as well, if you cannot find them on the web by searching or at WDC Kyoto. | 10/19/11 | Vassilis | 2+ | Lydia | Lydia: Do we want to be mirroring the data for the sites and generating CDFs as we do for the other external magnetometer sites? If so, we would need to determine where the data could be retrieved from, obtain permission to mirror it, and write download and conversion to CDF scripts. This would be a separate task for each of the data suppliers (unless there is some existing site that has the data from multiple sources). The 12 stations that are used for the calculation of the AE indices seem to be (according to Kyoto WDC): listed in tasks 4409a-4409m. | | | | | | | |
| 4409a | Abisko (ABK) (Sweden) | 10/19/11 | Vassilis | 2+ | Lydia | **The scripts to download and process the data have been written but are not yet running on the cron. I am in the process of downloading data back to 2007.** | | | | | | | |
| 4409g | College (CMO) (USGS, US) | 10/19/11 | Vassilis | 2+ | Lydia | I have confirmation from U Alaska/GIMA that CMO is the same site as CIGO. We have this data already. Nothing needs to be done. | | | | | | | |
| 4409h | Yellowknife (YKC) (CANMOS/Geological Survey of Canada) | 10/19/11 | Vassilis | 2+ | Lydia | **The scripts to download and process the data have been written but are not yet running on the cron. Waiting on response from NRCan as to who to list as PI etc (reply on Nov 29 said they would get back to me soon). Have downloaded some back data for 2011 and 2010, but I think they are still setting up the ftp site I have access to and some data has not yet been added.** | | | | | | | |
| 4409i | Fort Churchill (FCC) (CANMOS/Geological Survey of Canada) | 10/19/11 | Vassilis | 2+ | Lydia | ss 4409h | | | | | | | |
| 4409j | Poste de la Baleine (PGQ) - closed, replaced with Sanikiluaq (CANMOS/Geological Survey of Canada) | 10/19/11 | Vassilis | 2+ | Lydia | | | | | | | | |

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| 4409k | Narsarsuaq (NAQ) (DTU, Denmark) | 10/19/11 | Vassilis | 2+ | Lydia | **Greenland download and processing scripts are now running on the cron. I am currently downloading back data to 2007 where available in the better coordinate system.** | | | | | | | |
| 4409m | SNKQ | 10/19/11 | Vassilis | 2+ | Lydia | SNKQ is confirmed to be the same site as SNK. We already get this data. **There seems to be an issue with data availability at the moment, but this is a problem at their end**. Nothing needs to be done. We gat data from Alberta. | | | | | | | |
| 4409n | Greenland Scripts | 10/19/11 | Vassilis | 2+ | Lydia | **see 4409k** | | | | | | | |
| | **Pat** | | | | | | | | | | | | |
| 4439 | Astrea Testing and Migration | 11/22/11 | David | 0 | Pat | awaitiny sysadm mysql move | | | | | | | |
| 4138f | Run simulation for range of initial positions around the full sphere. | 9/17/10 | Davin | 1 | Pat | **Reeceived Data from Rob Lillis - check the mods to see if they work and if so start simulations** | | | | | | | |
| 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 - working well and will show Vassilis next week** | | | | | | | |