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|--------------|--|----------------|----------------------|-----|----------------|--|----------|--|
| Task# | Task Description | Date Opened | Reported By | Pri | Assigned To | Notes | Estimate | A&E crib; script; suite; UG; DevG; Qref; AdmG |
| | To be Assigned or Discussed | | | | | | | |
| 4901 | GOES overview plots | | | | TBD | On hold until Eric's routine to load GOES data from NOAA is ready to use. Should include e-, i+, B field, s/c position, X rays, AE index, B wave survey (like FGM wave survey) 10/04/2013: On hold until NOAA site is back online | | |
| 4929 | Improve "basic" cribs | | Pat | | TBD | The tplot cribs under ssl_general are good examples to follow for style. Cribs should be directly executable (not wrapped in a function call), with explanatory banners and comments. They should demonstrate loading raw L1 data, calibrated L1 data, and L2 data, including usage of the most common keyword parameters (probe, datatype, type, coord). They should also demonstrate how to calibrate already-loaded raw L1 data, and perhaps some examples of plotting or manipulating the data. Eclipse corrections and other more advanced analysis examples should be moved into one of the "advanced" cribs, or removed completely. | | |
| 4929 | Improve "basic" cribs | | Pat | | TBD | Missing a basic "esa" crib | | |
| 4929 | Improve "basic" cribs | | Pat | | TBD | asi cotrans dproc efi export fbk fft fgm fit spinfit gmag overplot scm | | |
| | Feature requests for particle code? | | Aaron | | | | | |
| | Crash when trying to load ACE, CLUSTER, THEMIS mag data for default date via CDAWeb | | Alexander Freed | | | Reported by V's students. This seems to be working for us, though, so may be a local issue? | | |
| 4940 | | | | | | | | |
| | Hannes | | | | | | | |
| 40100 | | F/10/2010 | Hannaa | 1 | Honnes | 12/00/2012, Cal files undetes, all probes from mid August | | |
| 4018a | New Calibration FGM parameters and spin axis offsets | 5/10/2010 | Hannes | 1 | Hannes | 12/06/2012: Cal files updates, all probes from mid-August 2012 on. | | |
| 4080 | Attitude Determination next few months | 6/21/2010 | Hannes | 1 | Hannes | 5-24-2013 Updated for 2012-12-01 – 2013-02-21, tha, thd, the | | |
| 4472 | Inter-spacecraft FGM calibration for ARTEMIS. | 1/4/2012 | Vassilis | 1 | Hannes | 6/4/12 from Hannes: Artemis inter spacecraft differences show good results with current calibration | | |
| | Aaron | | | | | | | |
| | combination of ESA and SST data could only be done in the Geometric mode. Would be great if it could be done in other modes as well. | 8/11/2011 | Xuzhi | 1 | Aaron | In progress, maybe ready to demo in 1 week | 1 hr | |
| 4744 | Add combined ESA/SST moments capability to new particle routine | 07/24/13 | Pat | 1 | Aaron | I was talking to Drew about particle stuff yesterday and we got to talking about how our goal for THEMIS particles should be combined ESA/SST particle products. (Spectra and moments) Doing this for spectra should be pretty easy with the new routine. (Just pass in a concatenated structure and it should work.) Doing this for moments would be pretty tricky in the current configuration because it makes a lot of assumptions about the particular instrument that it is working with. But Aaron and I were thinking that we could probably add moments capability to the the new particle routine pretty easily and this could be done in a way that was sufficiently generic that it would not choke on a combined particle distribution struct. I don't think it would be more than a week for one of us to do this. | | |
| | Generate combined ESA/SST moments in GUI | 06/25/13 | GEM-TDAS tutorial | | A | Very preliminary at the moment, add to GUI in 6-12 months (so probably sometime in 2014) | | |
| 4929 4908 | Improve "basic" cribs Prevent unnecessary reloads of particle data | | Pat | 1 | Aaron Aaron | sst mom part_products Keep track of last requested time interval in common blocks, so | | |
| 4900 | Frevent unnecessary reloads of particle data | | Aaron | | Adion | that gaps at beginning/end of day don't cause unnecessary reloads. | | |
| | Cindy | | | | | | | |
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| 4153 | maintenance of gmag stations "Exclude List" | 10/11/2010 | David | 0 | Cindy | Weekly on Mondays | | Qiei, Adiilo |
| 4100 | Ping Sasha for status of back AE station data | 10/11/2010 | Bavia | ا | Ciriay | Pinged 7/2013, waiting for response | | |
| 4687 | Check with lan Schofield about status of Dr. Hayashi's 1-sec STEP data set. | 41369 | Cindy | | Cindy | 2013/10/17: Data being converted now, should be available in a couple of weeks | | |
| 4903 | Not receiving current data from Russian GMAG sites, seems like server has been moved or renamed? | | Cindy | | | 10/18/2013 Communication established! | | |
| 4842 | GUI API – Plugin access to GUI configuration settings dialog (remote, local data dirs, etc) | 1/18/2013 | | 1 | Cindy | Convert to tabbed interface, like "load data" panel. Need to fix bug in handling hw vs. sw rendering setting (corrupts draw object). Most load panels converted, "yyy" still to do | | |
| 4937 | Wrong lat/long for Fredericksburg GMAG station | | | | Cindy | Fix master CDF and reprocess | | |
| | Reprocess old Kiana GMAG data | | | | Cindy | Cap filling for extended network disconnection, Harald recently recovered data from hard drive. | | |
| 4932 | Add TDAS tutorial presentation to themis/examples directory | | | | Cindy | | | |
| | Add new Alaska station and revived Arctic station to GIMA processing scripts, master CDFs, etc | | Cindy | | Cindy | | | |
| 4743 | Clean up GMAG processing scripts | | Cindy | 2 | Cindy | many variations of wget wrappers, will be much cleaner when code is consolidated. Should also look into consolidating database schemas for the various scripts. | | |
| | Eric | | | | | | | |
| 4909 | Compare magnetometer data between old & new GOES routines | | Jim L | | Eric | Ready for science team to check out (maybe Adam Kellerman?) | | |
| 4935 | Use FGS-FGL correlation, FGS-FGE correlation, and presence of spikes in dB/dt to detect timing issues in FGS data. | | | | Eric | FGS-FGL and FGS-FGE comparisons should be performed and reported packet-by-packet. See if spikes are detectable in very low fields (e.g. ARTEMIS). Output format should be amenable to further processing. | | |
| 4933 | Improper overwriting of data when replaying data processing operations | | | | Eric | First the user loads some data, does a basic data processing operation on the data (such as smoothing). Then the user loads the same type of data for a different date and tries the same data processing operation, it will prompt the user to overwrite the variables created during the first data processing operation. If the user says 'no' or 'notoall' and then saves the document, closes IDL and reopens/replays the document it will default to overwriting the already smoothed data, regardless if the user selected 'no' or 'notoall' to overwriting. | | |
| 4689 | need to keep clicking "yes to all" when replaying document that overwrites data. Also need to track deletions of data. | 03/27/13 | Pat | 2 | Eric | Looking into this one, I found that quite a few operations don't have overwrite queries tracked: Interpolate pwrspc calc nudge getspec Some seem to default to overwriting, some default to repeated queries to user. Original report: I loaded data for probes b and c and then went to plot the data and realised I should have loaded a and b for the tests. I returned to the load data panel and loaded the probe a data before deleting the probe c data. After saving as a themis document and reopening, the c data was loaded but not deleted. The data that was loaded and deleted using delete all data following the testscript does not appear when you reopen the document (as you'd expect). | | |
| 4931 | We should have a routine to do NaN cleanup for tplot variables | | Pat | | Eric | Add a keyword argument /nan_cleanup to tdeflag, to perform the NaN removal but none of the other interpolation operations. | | |
| 4905 | Acknowledgments for GOES data from NOAA? | | Eric | | | Contact Howard Singer to find out who should approve acknowledgements | | |
| | Add support for a standalone GSM->aGSM cotrans routine | 08/02/13 | Eric | | Eric | Should accept either solar wind velocity data, or a user-provided rotation angle. Should live with other analytic transforms. | | |
| 4736 | Add support for aGSM coordinates to neutral sheet model | 06/27/13 | Eric | 2 | Eric | | | |
| | Jim L | | | | | | | |

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| 4748 | Jumps in FGS and FGL around times of FGM range changes | 07/29/13 | | | Jim L | May be a dropped sample at the time of the range change? Problem goes away with the start of the next L0 packet. | | |
| 4142 | issue with FGS processing - timestamps | 9/30/2010 | Vassilis | 0 | Jim L | May have fixed problem – if packet header time corresponds to spinphase between 0 and 143 degrees, timestamps need a -1 spin period correction (integration interval is V1 to V1, not MSSS to MSSS). Reprocessing L1 FIT to QA area to test. | | |
| 2266 | Timing of Spin Fit data | 10/16/2009 | Jim McFadden | 0 | Jim L | See 4142 After 4764 | | |
| 4921 | Add data quality flags (1 minute cadence) to state CDF, similar to ROI/maneuver flags. | | | | | For example: SDT time intervals, spin rate out of bounds, boom deployments, shadows, misconfigured EEPROM tables | | |
| 4692 | Repeated prompts to load STATE support data | 4/12/2013 | Aaron | | Jim L | I'm unsure on whether or not I'm seeing the correct behavior when state support data is loaded for cotrans operations. For SSE/SEL transforms the SLP data is loaded once, kept in the gui, and the user is not prompted again. For transforms that require state the user is prompted every time, unless all the required state data has been loaded manually. Might be related to thm_ui_check4spin, which never checks the spin model common block? | | |
| 4849 | Change L0->L1 code to prevent out-of-order timestamps in iesa and isst configuration history. | 1/29/2013 | Nick | | Jim L | Include configs from previous and next day, then clip to the desired day before writing into L1 CDFs. | | |
| | Jim M | | | | | g man and and and and and and and and and a | | |
| 4732 | Rename TDAS to SPEDAS for next release | 06/25/13 | GEM-SPEDAS | | Jim M | Get some feedback from SVN users before committing to the repository reorg On hold until we're sure what the final name will be. | | |
| | Look at FLATSAT spectrograms and onboard vs. ground moments | | | | Jim M | Energy ranges correct for new eESA full, burst, reduced modes with stim pulser data? | | |
| 4906 | Add 2-hour orbit plots for THEMIS A,D,E (without RBSP) | | | | | New plots are there for Oct 17, reprocessing back data. | | |
| 4758 | Clean up s/c potential (onboard and ground), FBK and EFS data for time intervals when SDTs are running | | | | Jim M? | Cleanup to be done in L1->L2 processing, using time intervals when SDTs were being run. Eliminate this contaminated data from summary plots and L2 data files. Time intervals to be provided by MOC and/or John Bonnell. After Jim L's task 4921. | | |
| | Nick | | | | | | | |
| 4934 | Reprocess eclipse-corrected L2 FGM data to QA area | | | | Nick | | | |
| | Top label cut off on summary plot PNGs since Sep 16 | | | | Nick | Seems to affect most recent couple of days, then fixes itself. Some processing step is messing with the margins but haven't found which step yet. | | |
| | Evaluate alternate CDAWeb->tplot code (without temp CDFs) from Aaron R. and Scott B. | | | | Nick | CDAWeb panel working fine as is, no further action required. | | |
| 4752 | Add GUI configuration option to specify command to use to spawn a web browser | | | | Nick | No standard environment variable on Linux/Mac to reliably get user's preferred browser. (Hold until work on new configuration panel is completed?) | | |
| | Investigate bug tracking/wiki support for SPEDAS developers | 06/25/13 | GEM-SPEDAS | | Nick? | Rehost tools on non-UCB domain? | | |
| 4738 | User-friendly indication of availability of various THEMIS products over time (e.g. no L2 MOM until boom deployment) | 06/25/13 | GEM-TDAS tutorial | | Nick? | THEMIS, GOES, WIND, RBSP done. Allow user to expand/collapse the tables for each mission to save space. | | |
| | Pat | | | | | | | |
| | Updated FGM calibrations for solar array currents vs. spin phase? | 5/30/2012 | Vassilis | 0 | Pat | Last Recieved – Jan 2013. May need to remind FGM team if we | | |
| | Opuated Polivicalibrations for solar array currents vs. spiri priase: | 3/30/2012 | vassilis | U | Fai | go a long time without updates. Check again in mid-August 2013 | | |
| | Add new variables to SST L2 master CDF | 06/06/13 | SPDF | | Pat | New SST calibrations working well enough to start making new L2 CDFs. After 4744. | | |
| | Improve "basic" cribs | | Pat | | Pat | calc, trace, plotxy, plotxyz | | |
| 4907 | tplot namespaces | | Pat | | Pat | Add capability to create tplot variables in different namespaces (e.g. for creating tplot variables inside GUI without disturbing existing variables). Is it feasible to get this change implemented in time for the next SPEDAS release? | | |