

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								
4929	Improve "basic" cribs		Pat		TBD	The tplot cribs under ssl_general/examples 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 dat		
4929	Improve "basic" cribs		Pat		TBD	Missing a basic "esa" crib		
4929	Improve "basic" cribs		Pat		Volunteers?	Still to do: asi cotrans dproc efi export fbk fft fgm fit spinfit gmag overplot scm		
4951	Inconsistent directory listing format from justice FTP server		Tami		Sysadmins?	Sometimes they get HTML formatted listing, sometimes plain ls output. Affects SPDF data product ingest process.		
5000	Merge WWW and GUI THEMIS summary plot routines				TBD	They got forked at some point and should be merged back – a common routine to load & process the data, then render as needed for WWW and GUI.		
5009	Reprocess V02/V03 state CDFs for 2013 on to fix ROI flags				Jim L	Dan Cosgrove will regenerate ASCII ephemeris files to correct ROI bits.		
5010								
Hannes								
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								
4970	Add Plugins menu to main menu bar, develop API routines so plugins can add their own menu items		Mini-GEM	0	Aaron	Final testing in progress. How hard to load plugin config file when the gui is started, rather than when the load data panel is opened?		
4908	Prevent unnecessary reloads of particle data		Aaron	1	Aaron	Keep track of last requested time interval in common blocks, so that gaps at beginning/end of day don't cause unnecessary reloads.		
5007	Add button to GUI velocity slices to allow retrieving values by clicking on plot				Aaron			
4730	Integrate idlneturl into file_http_copy?	06/25/13	GEM-SPEDAS		Aaron	Would have to sacrifice IDL 6.3 compatibility, but most users should have upgraded by now. OK to proceed.		
4979	Integrate SST contamination removal options with particle slices code		Aaron		Aaron	Initially I thought this would be as simple as changing a couple keywords when loading the data, but it's now being performed post-load. The new code is in the SST sanitization routine for thm_part_products so it should be simple to drop a call to that i		
4968	SPEDAS wiki			1	Aaron	Slices documentation, background info & documentation for general particle processing		
4725	Generate combined ESA/SST moments in GUI	06/25/13	GEM-TDAS tutorial	2		Very preliminary at the moment, add to GUI in 6-12 months (so probably sometime in 2014)		
4929	Improve "basic" cribs		Pat	2	Aaron	sst mom part_products		
Cindy								
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Cindy	Check again in March 2014		
4687	Check with Ian 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		

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4990	Incorrect range_epoch values in L2 GMAG cdf		Tami		Cindy	In the file: thg_l2_mag_amer_20060309_v01.cdf we noticed that the range_epoch end time value is pretty crazy - 2163/03/09 00:00:00 We also noticed that there's no data for years 2007 and 2010.		
4997	Add support for new PG4 Antarctic magnetometer station				Cindy			
4975	Quick start guide for plugin developers, including design guidelines for CDFs, better documentation for time_double, file_retrieve, and other useful tools for creating load routines and GUI plugins		Mini-GEM		Cindy			
4967	SPEDAS wiki				Cindy	SPEDAS API documentation and other notes for plugin developers		
4924	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.		
4761	Add STEP polar magnetometer network (6 sites) to our data set.	9/17/2012	Vassilis		Cindy	4/04/2013: May take a year or more for Ian Schofield to collect and process Kanji Hayashi's data. Some 1-min data available for public use at step-p.dyndns.org/~khay (Dr. Hayashi's web portal).		
	Eric							
4993	st_type not set for data loaded through CDAWeb		Eric		Eric	For THEMIS, we use this attribute to mark variables as positions, or velocities. What about generic CDAWeb imports?		
4994	Add aGSM option for GUI data processing->cotrans		Eric		Eric			
4861	Code maintenance issue – GUI coordinate systems			1	Pat	But there may be a code maintenance issue since we maintain two lists of supported coordinate systems. (One in thm_ui_req_spin.pro & one in thm_ui_cotrans_new.pro I just used a comment to future programmers, but a single list would probably be more durab		
4995	GOES overview plots failing for certain days		Nick/Eric		Eric	Seems to be due to duplicate timestamps – this will cause the plot for that day to fail. Possibly issue in tvector_rotate?		
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. Alternate approach: compare integrals, as opposed		
4956	Detect/repair missing(?) samples near FGM range changes in both waveform and spin fit data		Vassilis		Eric			
4905	Acknowledgments for GOES data from NOAA?		Eric			Got a reply, they will discuss and get back to us with acknowledgement text.		
4966	SPEDAS wiki				Eric	Document GOES plugin (data source, available data sets, processing notes if any)		
4735	tsyganenko support in GUI	06/25/13	GEM-TDAS tutorial		Eric	Does this mean we'd have to distribute the DLM/DLL/so files with TDAS instead of providing a separate download? How would this work for the VM? Done coding & testing all that's left is documentation.		
	Jim L							
4944	thm_load_fgm reloads and time clips state data if state is already loaded and less than a day is requested.		Pat		Jim L			
4983	Steps in plot of FGS-Tsyg – related to timing problems or new issue?		Vassilis		Jim L			
4960	Glitches at eclipse entry/exit that look like FGM range changes; some real range changes seem to be handled improperly		Yuri K, Eric		Jim L	May be a problem with FGM L0->L1 processing and detection of range changes.		
4969	SPEDAS wiki				Jim L	Spin model and eclipse processing, L0->L1 processing		

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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	tplot namespaces	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		
	Jim M							
5005	Reprocess SCM L2 data with small gap interpolation enabled				Jim M	In progress.		
5004	Reprocess ESA L2 data with background subtraction enabled				Jim M	OK to proceed		
4962	Reprocess THEMIS AE index & summary plots to remove spikes and gaps, fix SST energy ranges				Jim M?	In progress.		
4977	MAVEN plugin		Mini-GEM		Jim M	Start with the “boilerplate” plugin code to get a MAVEN tab implemented; “guts” of the plugin will be implemented as instrument leads develop their data products & load routines.		
4965	SPEDAS wiki				Jim M	ESA instrument info, data structures, calibration processes		
4732	Rename TDAS to SPEDAS for next release	06/25/13	GEM-SPEDAS		Jim M	Finalizing changes to scripts that build /disks/socware from the repository		
	Nick							
4996	Try building IDL VM release (using TDAS 8.0 *.sav files) with make_rt (so that IDL VM is bundled with the application and the user won't have to register with Exelis to get it.)				Nick	http://www.exelisvis.com/docs/creatingdistributionusingmake_rt.html		
4999	thm_load_efi trange bug fix caused a change in spacecraft potential plots – why is this happening?				Nick			
4964	GOES summary plots (processing scripts, cron jobs, web site menus)				Nick	Need GOES acknowledgements for summary plots & “rules of the road” page – Eric to negotiate exact wording w Pis.		
4986	WWW live demo for SPEDAS		Vassilis		Nick	IUGONET has some web pages to let people interact with a TDAS session via WWW. We should offer something similar as a TDAS tutorial/demo.		
4961	Improve error reporting for cron jobs		Jim L		Nick?	The summary plot and AE index processing are particularly prone to misleading or confusing error reports. There is probably a lot of room for improvement in our logging and error reporting process for these and other automated processing jobs.		
	Pat							
4988	Alternate date/time formats for time_double		T. Hori		Pat	time_string allows custom output, but time_double doesn't allow specifying an input format (different punctuation, DOY instead of calendar dates, etc) Also, make it vectorized for efficiency.		
5003	Add command line tests for loading AE index and SLP data using SPDF as the data source				Pat	These data sets were not previously hosted at SPDF.		
5002	Use ISTP variable attributes to generate tplot variable labels		Pat		Pat	Discuss w/ Davin. We currently hardwire variable label strings at the load routine level, rather than using the ISTP standard attribute structures from the CDF metadata. This would be particularly useful for data loaded via the CDAWeb interface. Would r		
5001	keyword for thm_part_combine that only returns SST data plus interpolated bins				Pat	Now that scientists have been using thm_part_combine we want to deprecate the code it was forked from that only returns SST data plus interpolated bins. To preserve that functionality we can add a keyword to thm_part_combine to skip the ESA concatenation		
4929	Improve “basic” cribs		Pat		Pat	calc, trace, plotxy, plotxyz		