

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.		
5015	Out of memory loading 6 hrs of ASF data		Harald		TBD	Is there a workaround?		
5024	L2 FGM and other CDFs do not exclude eclipse time intervals		Bob McGuire		TBD	Bob thinks we should either trim the eclipse time intervals out of affected L2 CDFs, or have quality flags in each CDF type marking those intervals.		
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								
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.		
5011	thm_part_combine produces variables with non-monotonic times		Pat		Aaron	Input data is OK (monotonic times) Maybe related to mode changes?		
5018	time derivative function should set units to whatever/sec		Eric		Aaron			
5020	Move THEMIS and GOES overview plots to plugins menu		Eric		Aaron			
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		
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		
	Ping Sasha for status of back AE station data					Pinged 7/2013, waiting for response		
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.		
	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	Found a problem with dsl->aGSM, investigating		
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		
5016	GEOPACK DLM updates – implement tplot wrappers for *_08 functions		Haje Korth		Eric			
5017	GUI cotrans changes data variable units to seconds		Eric		Eric	Seems to be coming from the time object somehow		
5019	Delete goesmag directory, move goes to projects directory		Eric		Eric			
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?		
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)		
	Jim L							
5012	Add support for new ESA modes 0x0105 and 0x0205		Jim M		JimL	Update tmttools & ESA calibration code, support flatsat tests		
5023	thm_load_scm doesn't load L2 * _btotal variables		Pat		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		
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.		
	Jim M							
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.		

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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. Removing hardcoded IDL path references wherever possible (ksh scripts, config files, etc). Might need to stop ALL cron jobs while deployment & testing in progress.		
	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	Followed Exelis example but application still runs in demo mode – waiting to hear back from tech support		
5013	Merge updated SpdfCdawebChooser and related code into the subset we're using with SPEDAS		SPDF		Nick	Also, identify any duplicated routines so we can figure out what needs to be removed or renamed.		
5022	Loading SCM data through CDAWeb, mismatched time,data counts		Nick		Nick	Our L2 CDFs look OK, but when loading via CDAWeb, the time variable has a different number of points than the data variable.		
5014	Add support for new PG4 magnetometer station to thm_load_gmag and GUI code				Nick	Cindy will handle the cron job & other server side changes		
4999	thm_load_efi trange bug fix caused a change in spacecraft potential plots – why is this happening?				Nick	Onboard and ground-generated moments seem to have different scales and/or offsets, so combining them gives a strange result. This was not noticed previously due to the bug in thm_load_efi. Might need to find out exactly what calculation is happening onboard in order to get them to match.		
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.		
5000	Merge WWW and GUI THEMIS summary plot routines				Nick	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.		
	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 go a long time without updates. Check again in mid-August 2013		
5002	Use ISTEP 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 ISTEP 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		
5021	Use /resolve_labels keyword when loading CDAWeb data		Pat		Pat	After Nick is done updating SPDF code to current release		
4929	Improve "basic" cribs		Pat		Pat	calc, trace, plotxy, plotxyz		
4973	Best way to load higher-dimensional data into GUI?				Pat	Will this require changes in tplot? How can we support high-dimension data in the GUI (to at least allow it to be loaded, and let plugins supply the visualization/rendering code?) Probably not for upcoming release, but we should at least have a credible		