

Task #	Task Description	Date	Reported By	Pri	Assigned To	Notes	Estimate	Script, Suite, UIC, DevC
	To be Assigned or Discussed							
4929	Improve "basic" cribs		Pat		TBD	The tplot cribs under ssl_general/examples are good examples		
4929	Improve "basic" cribs		Pat		Volunteers?	Still to do: asi efi export fbk fft fgm fit spinfitt gmag_scm		
5026	Add heat flux (derived from eflux) to L2 ESA		Tai Phan		TBD	Will implement after Tai does some testing to determine how		
5045	Develop mini-GEM tutorial with SPEDAS 1.00 updates		Vassilis			Tutorial: incorporate examples using Van Allen probes, POES,		
5049	spedas.org: add article with full list of capabilities (not just since last		Nick					
5050	spedas.org: road map for future development		Nick					
5051	Load Data tabs: each tab should get some text stating the time range for which data exists		Nick					
5054	THEMIS web page		Bob McGuire			Add page to THEMIS site describing pseudo-AE index products, which stations they are derived from. Bob M will update master CDFs at CDAWeb to link to this page.		
5055	Recurring task: periodically check CDAWeb plots, legends, etc. To ensure that they're consistent with what our software produces.		Bob McGuire			Especially important when new CDFs or variables are added, or when people are prepping for Senior Review		
5073	SPEDAS plugin API refactoring		Jim L			Move away from 1 config file per "hook", to 1 config file per plugin just to define the entry point for that plugin's initialization code, do everything else via API calls rather than config files.		
5077	THEMIS web page not rendered correctly in Chrome or Safari		Emmanuel			Some of the overlays collapse and overlap. On Safari, zooming the text slightly larger can fix the problem. Could be a CSS issue?		
5078	Moments code crashes, problem seems to be due to missing fgs data?		Tai Phan					
5082	How to compute Poynting flux of Pc5 wave?		Wenya Li			I have a pc5 case observed by THEMIS-D, and am trying to calculate the Poynting flux of this wave. I don't obtain much help from "thm_crib_poynting_flux.pro". I am still puzzled on how to calculate it.		
5083								
5084								
5085								
	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							
4468	Ongoing - Review all commits by Davin, Peter, etc for impact to TDAS.	3/27/2012	David	0	Aaron	Provide weekly report and spreadsheet		
5070	Exercise and troubleshoot simulation software				Aaron			

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QA030	Enhancement: 2d slices during eclipses?		Aaron			One of the researchers down here came by wondering if there was an option to apply the eclipse corrections when producing 2D slice plots. At the moment we can't use the corrections because the slices code assumes that energy and angle bins are static within a mode (this was primarily done to boost performance) and the binning is based on the position of the spacecraft.		
4929	Improve "basic" cribs		Pat		TBD	Missing a basic "esa" crib		
	Cindy							
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Cindy	Weekly on Mondays		
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Cindy	Check again in February 2015		
4781	GMAG station status: troubleshoot stations with no data reported				Cindy			
	Ping Sasha for status of back AE station data					Maybe Vassilis can ping? Or try contacting Oleg?		
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		
5038	New GIMA ground station (Toolik Lake)		Cindy		Cindy	There's a new station, Toolik Lake .		
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		
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). 2014-10-01 Some data is there on the server, but it looks sparse...is there anything missing?		
4481	New data product, AE index from THEMIS+std sites	1/9/2012	Vassilis	1	Cindy	awaiting Russian data 7/2/2012: Still need data from 2007-2010. 7/27/2012: Getting current data again, still waiting for older data. 12/17/2012: Older data in different formats, Sasha is getting some other people involved and expects to deliver by Sprin		
	Eric							
5039	New Load Data tab for POES mission		Vassilis		Eric	Need to figure out what level of cleanup has been done in the CDF version of the data set – e.g. Is the 2 second data already contamination-removed? Also, some of the metadata seems incorrect (labels, units, etc). Will probably need some back-and-forth between us, SPDF, and NOAA to figure out exactly what we're getting.		
5068	Develop a compound widget to make the Data Analysis window code reusable by plugins				Eric			
5074	POES overview plots		Eric			Wen Li had some suggestions. These will be a little more complicated than the THEMIS and GOES overview plots, with data from multiple spacecraft.		
5075	CDF library version check needed for "Load Data from CDAWeb"		David Sibeck		Eric	The CDF library that shipped with older IDL installations (6.4.1) is incompatible with the "Load Data from CDAWeb" code, causing a crash. We should do a version check and pop up a warning, with patching instructions, if the CDF library is too old.		
5076	Magnetic Field Models, if GEOPACK not installed		David Sibeck		Eric	If the Magnetic Field Models panel is opened, but GEOPACK is not installed, the user is warned, but we should also include instructions about how to obtain and install it.		
5080	POES fill values in data (-1) don't match FILLVAL metadata (-1e-31)		Eric		Eric	Should be reported to Bob McGuire, they will probably need to update their master CDF.		
5081	GUI deflag panel in Analyze Data omits crucial information about how it operates		Eric		Eric	Add additional text to panel to explain how the FILLVAL is used		

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5046	User guide updates				Eric			
Jim L								
2074c	quality flag for FGM data. (see also 5024, 4921)		Vassilis	2	Jim L	quality flags for FGM data: Hannes talked to Ferdinand and suggests some flags in the state CDF: times when eclipse spin model adjustments were performed; times when spin fit & FGL data used to refine the eclipse spin model; times when V03 attitude corrections not available, times when FGM data is noisy post-eclipse		
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		
5024	L2 FGM and other CDFs do not exclude eclipse time intervals		Bob McGuire		TBD	Remove eclipse intervals from FGM L2, also add quality flags at 1 minute cadence. Then implement similar strategy for other instruments.		
5024	L2 FGM and other CDFs do not exclude eclipse time intervals		Bob McGuire		TBD	Remove eclipse intervals from FGM L2, also add quality flags at 1 minute cadence. Then implement similar strategy for other instruments.		
5033	Draft document: "general" development guidelines				Jim L	Circulate to Davin, and then the rest of the change committee members		
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								
5056	FGM b_total data shows up as sometimes scalar, sometimes 1-element array		Bob McGuire		Jim M	Master CDFs corrected, issue was limited to FGM. Hold reprocessing until 5024 and related tasks (FGM quality flags) are implemented.		
5057	Apply offset correction to equalize pxxm_pot with vaf s/c potential (optional keyword)		Jim M					
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.		
5065	Autodetect SDT intervals from science or housekeeping data?		Jim M		Jim M?	See 4921. We can get a list from the MOC but it would be a very manual process. If we can reliably autodetect SDTs from science or housekeeping data, that would be better.		
4821	Use improved IDLDOC procedure to generate TDAS HTML documentation?	12/11/2012	Mini-GEM		Jim M	better format, more web-friendly? IDL 8.0+ versions OK since it won't be distributed with TDAS, only the HTML output.		
4965	SPEDAS wiki				Jim M	ESA instrument info, data structures, calibration processes		
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								

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5047	CDAWlib compatibility issues		Nick		Nick	Compile a report of issues we had (mixed case filenames, execute() calls, namespace issues, required subset to support "Load Data from CDAWeb") and forward to Tami to see which changes can be easily made at their end.		
QA053	config settings		Aaron			There doesn't appear to be a way to control where files for the geomagnetic/solar indices are stored. This may be more of a feature request than a bug.		
5072	Add documentation search (php + database) to web page		Nick		Nick			
5071	Host SPEDAS downloads on spedas.org rather than at SSL.		Vassilis		Nick			
5077	THEMIS web page not rendered correctly in Chrome or Safari		Emmanuel			Some of the overlays collapse and overlap. On Safari, zooming the text slightly larger can fix the problem. Could be a CSS issue?		
5067	Create a plugin based on the code we received from BARREL				Nick			
4743	Clean up GMAG processing scripts		Cindy	2	Nick	many variations of wget wrappers, will be much cleaner when code is consolidated. Should also look into consolidating database schemas for the various scripts.		
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							
	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		
QA151	(themis load) I ran into a case where selecting "no to all" for variable overwrite keeps new variables from being simultaneously loaded. (Deferred)		Aaron			a) load: probes=b,c l1=peef l2=peif_en_eflux,peif_t3 b) load: probes=b,c l1=peef l2=peeb_en_eflux On the second load if "no to all" is chosen for overwriting the peef variables then no peeb variable is be loaded. If l1 peef is de-selected or "yes" is chosen then the new variable is loaded.		
5079	nan keyword to interpol only valid in IDL 8+		Eric		Pat			
4929	Improve "basic" cribs		Pat		Volunteers?	Still to do: cotrans dproc overplot		
QA171	I've noticed that a number of our error handling blocks pop up the help request window before the actual error message. We should swap the order of those at some point.		Aaron					