

Task #	Task Description	Date	Reported By	Pri	Assigned To	Notes	Estimate	Script, Suite, UIC, DevC
	<b>To be Assigned or Discussed</b>							
4929	Improve "basic" cribs		Pat		TBD	The tplot cribs under ssl_general/examples are good examples		
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		
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.		
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, GOES Developers: quick start guide to writing SPEDAS plugins.		
5049	spedas.org: add article with full list of capabilities (not just since last release)		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		
5056	FGM b_total data shows up as sometimes scalar, sometimes 1-element array		Bob McGuire		Jim M	Master CDFs have 1-element arrays, data variables are scalar (if present), or 1-element arrays (if no data).		
5059	ucla_rmd2all occasionally reports missing calibration file (MATH.txt)		Jim L			Include more diagnostic details in error message?		
5061								
5062								
5063								
5064								
	<b>Hannes</b>							
4018a	New Calibration FGM parameters and spin axis offsets	5/10/2010	Hannes	1	Hannes	<b>12/06/2012: Cal files updates, all probes from mid-August 2012 on.</b>		
4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes	<b>5-24-2013 Updated for 2012-12-01 – 2013-02-21, tha, thd, the</b>		
4472	Inter-spacecraft FGM calibration for ARTEMIS.	1/4/2012	Vassilis	1	Hannes	<b>6/4/12 from Hannes: Artemis inter spacecraft differences show good results with current calibration</b>		
	<b>Aaron</b>							
4468	Ongoing - Review all commits by Davin, Peter, etc for impact to TDAS.	3/27/2012	David	0	Aaron	Provide weekly report and spreadsheet		
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		

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QA076	Layout options (feature)		Aaron			(feature) I think it would be best to move the manual panel placement widgets from the panel options window to layout options (perhaps a new tab). That way all panel placement options would be in a single window, which seems more intuitive and should lessen potential conflicts.		
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. <b>OK to proceed.</b>		
4968	SPEDAS wiki			1	Aaron	Slices (done), spectrograms (done), moments (in progress), background info & documentation for general particle		
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		
	<b>Cindy</b>							
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					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		
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.		
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		
4924	Add revived Arctic Village 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 <a href="http://step-p.dyndns.org/~khay">step-p.dyndns.org/~khay</a> (Dr. Hayashi's web portal).		
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		
	<b>Eric</b>							
5039	New Load Data tab for POES mission		Vassilis		Eric	Instrumentation and data availability should be similar to GOES. CDASWeb now has several GOES, POES data sets online in CDF format and may have better processing and cleanup algorithms applied.		
5043	Develop workaround for loading POES data in IDL 6/7		Eric		Eric	Data files follow the netCDF 4 standard which is only supported in IDL 8+. The DLM and shared library from IDL 8 seem to work OK in IDL 6/7 but Exelis is reluctant to let us redistribute the DLM.		

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QA161	Unnecessary(?) "draw" operations in various option windows (x,y,z, panel)		Aaron			I noticed while testing #1 and similar bugs that many of our options windows (x/y, z, panel) are calling draws, or at least draw object updates, when they're opened. I'm wondering if there is a particular reason we've done that in some cases, or if it was just sloppiness. Since draw operations can be expensive and can lead to cases like #1 where an invalid setting cannot be fixed (hopefully we catch it beforehand) it seems like it would be better practice to not draw until we need to. For x/y axis and panel options I think there are general update methods called to populate/update the widgets that include draw calls. Separating the draws from those helper functions, or at the very least allowing a keyword to disable them in some situations, should work in those cases.		
5046	User guide updates				Eric			
4956	Detect/repair missing(?) samples near FGM range changes in both waveform and spin fit data		Vassilis		Eric			
4966	SPEDAS wiki				Eric	Document GOES plugin (data source, available data sets, processing notes if any)		
	<b>Jim L</b>							
5042	FLATSAT testing to support new ultra-fast survey mode		Vassilis		Jim L			
5053	AUTUMN GMAG network changed their server, need to re-establish SSH/rsync access		Cindy		Jim L	Updated script to supply SSH credentials, rsync now works but there still seems to be a data gap.		
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.		
	<b>Jim M</b>							
5030	Document onboard vs. Ground S/C potential issues				Jim M	Similar to "Sources of Non Ideal Performance" for other instruments. Problem with using pxxm_pot data to fill gaps in VAF data? May need to reprocess ESA once fix is implemented <i>Already done correctly in current release</i>		
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.		
5058	S/C potential incorrect in slow survey		Tohban		Jim M	Jim McT checked in a bug fix, is it working? How much do we need to reprocess? Should we do a patch release of TDAS?		
5060	HTML docs for SPEDAS routines no longer available from website, spedas zip file		Harald		Jim M			
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		
	<b>Nick</b>							
5040	Youtube Tutorial		Vassilis			First of a series. We should perhaps start with SPEDAS installation and setup.		

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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.		
5048	SPEDAS wikipedia page		Nick		Nick	add link to THEMIS wikipedia page, SPEDAS page should have links to <del>spedas.org</del> download page, etc.		
5041	GMAG processing crashes with latest CDAWlib		Jim L			Worked around by reverting to the previous CDAWlib installation; latest SVN version quits with a syntax error when compiling the SPDF code, which stalled GMAG production		
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. <b>Check again in mid-August 2013</b>		
4929	Improve "basic" cribs		Pat		Pat	calc, trace, plotxy, plotxyz		
5036	Troubleshoot/enhance CL test scripts for file_http_copy, file_touch		Jim L		Pat			
5044	noise level in FGM increases after eclipse		Xiaoyan		Pat	Recheck noise level after THC cal file update. FGS data might be a viable workaround. <b>Not much that can be done unless we implement dynamic corrections for each eclipse interval; probably best to just indicate these times in the quality flags (tasks 5024, 2074c)</b>		
QA142	Save/restore SPEDAS document: does not distinguish between scalar and 1-element arrays		Pat		Pat	We have some kluges in place but it would be nice to handle this more cleanly. (Deferred)		
QA140	Mission-specific logic in spd_ui_loaded_data object		Jim L			Should be abstracted somehow so that general purpose SPEDAS code does not have dependencies on mission-specific variable naming conventions (possibly via new plugin API features)		
QA141	Mission-specific logic in call_sequence object		Jim L			Calls THEMIS-specific spd_ui_load_data2obj routine – should be abstracted somehow to avoid mission-specific dependencies in general-purpose SPEDAS code (perhaps via new plugin API features)		
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		