

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.		
4972	Unnecessary downloads when loading IUGONET data		Mini-GEM		Pat/Aaron	Test case provided by IUGONET team-- File downloaded even when it's freshly created on local filesystem. Seems related to behavior of "touch" utility, which can vary between platforms. Bug may have been introduced when trying to fix behavior under OS X "Leopard". May not have ever worked properly on Windows.		
4988	Alternate date/time formats for time_double		T. Hori		TBD	Wind string allows custom output, but time_double doesn't allow specifying an input format (different punctuation, DOY instead of calendar dates, etc)		
4989	GUI Y-axis options "apply to all panels" bug		Pat		Nick	Reproduction instructions: #1 Plotted some mag data, each component(x,y,z) on a separate panel. #2 Go to y-axis, select "title" tab #3 Replace title with empty entry. #4 Select "apply to all panels" #5 Error: "Align annotations at: Invalid entry, value cannot be greater than range"		
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.		
4991	file_http_copy issue with redirection		Yoshimasa Tanaka		Pat	encode_url definition needs be placed before compare_url, but after fixing this it is still failing on certain redirections (uppercase path component incorrectly lowcased on redirection)		
4992	Discrepancy between L2 esa electron moments and results of thm_part_products		Aaron			ion moments look OK		
4993	st_type not set for data loaded through CDAWeb		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			
4995	GOES overview plots failing for certain days		Nick/Eric			Seems to be due to duplicate timestamps - this will cause the plot for that day to fail.		
4996								
4997								
	General							
	Tips of the Month		David		Jim L	Next Candidates: Lynn Wilson Routines; Eclipse auto processing; FGM Reprocessing, CDF library 3.4.1 released (fixes memory issue for Linux users), Simplified eclipse spin model corrections, new SST calibrations, specplot datagap		
4664	Laptop locks UCB and UCLA	6/6/2012	David	0	Team			
4661	I tried to load 3dp datatype pm for 2012 - the testscript says to check availability at http://sprg.ssl.berkeley.edu/data/wind/3dp/ and test different combinations. There are cdfs for 3dp pm for 2012 on that site, but the have are _v05 and don't load. Sho	6/6/2012	Lydia	1	Jim L	Wait till after WIND reprocessing and see what happens to version numbers, if they're all consistent then 5 minute change to load routine. Will not do "load highest version" -- responsibility of WIND developers.		

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4464	All plug-ins for v7.10 - add a section to User's Guide for Plug-ins	3/22/2012	David	1	Jim L	Discuss at the appropriate time what the content would be. Also add a link for VM on the Software Web Page or Developers web page?		
	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.		
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.		
4952	Obtain beta for upcoming IDL 8.3 release & evaluate for SPEDAS compatibility issues		Tami		Aaron	So far, so good. Speed comparable to 8.2.3. Evaluates expressions at command line rather than having to do "print, (some+expression)" Linux versions equivalent to Centos 5 or earlier not supported in IDL 8.3.		
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							
	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		
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							
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			
4981	Generate GOES summary plots from GUI		Jim L		Eric			
4905	Acknowledgments for GOES data from NOAA?		Eric			Contact Howard Singer to find out who should approve acknowledgements		
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?		
	Jim L							

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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							
4947	Evaluate despikes algorithm from GSFC code				Jim M			
4962	Reprocess THEMIS AE index & summary plots to remove spikes and gaps, fix SST energy ranges				Jim M?	After SST L2 reprocessing finishes (mid-January)		
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	Get some feedback from SVN users before committing to the repository reorg MAVEN and RBSP developers warned of impending doom 1-10-2014		
	Nick							
4964	Populate SPEDAS wiki with content from user's guide				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.		
4982	Can't return to GOES 24-hour plots from 2 hour plots, needs link to data availability tool		Vassilis		Nick	Need to click on "Display". Beta version updates immediately on any change, is that better? Might work better as a php page rather than the current javascript (for example, you could link directly to a particular plot).		
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.		
4987	php summary plot generator		Nick		Nick	Estimate effort required to switch to using php to generate summary plots (this will let us do things like link directly to a specific plot)		
4984	Problem rubber-banding data that is constant – new plot Y-range of [0,1] does not necessarily include original data		Jim L		Nick			
4948	SPEDAS global configuration panel?		Jim L		Nick	Might be useful for non-plugin-specific configuration: tplot verbose level, command to launch browser, temp directory. Another tab in file configuration panel, or separate menu item for global vs. plugin config?		
4971	Crash when loading RBSP "ECT" particle data via CDAWeb		Mini-GEM		Nick	Related to 2-d array per sample? Can't reproduce.		
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		
4718	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. Promoting to production 01-03-2014, will reprocess SST L2 for entire mission.		

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4945	Bad formatting in tplot variable labels		Pat	2	Pat	#2 This one has been around for a while but...the formatting codes for tplot var labels have very limited fixed widths. If I print something wider, I get a bunch of '****'s. An easy way to get this is if you try to do a var_label with position in km ins		
4978	FAST plugin		Bob Strangeway		Pat	Implement FAST plugin & gui tab; may duplicate some functionality from the CDAWeb interface but that's OK – it gives us a way to cleanly integrate any FAST-specific analysis and plotting tools, summary plots, etc.		
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		