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							
4754	GOES overview plots				TBD	On hold until Eric's routine to load GOES data from NOAA is ready to use. Should include e-, i+, B field, s/c position, X rays, AE index, B wave survey (like FGM wave survey)		
4756	Apply spacecraft potential to energy spectrograms		Aaron		Jim M?	Do not apply. Rather, show S/C potential as black line in ESA e-summary plots (within TDAS and also on web). Enable with new keyword to thm_part_getspec?		
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.		
4760								
4761								
4762								
	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							
4711a	Getspec rewrite, sanitize ESA	05/23/13			Aaron	Convert to physical units, standard internal representation, strip extraneous fields to save memory		
4711c	Getspec rewrite, Apply theta,energy,phi limits	05/23/13			Aaron	disables bins based on user specified limits		
4711g	Getspec rewrite, Make PA/Theta spec	05/23/13			Aaron	Tracking down last few discrepancies (e.g. fringing)		
4711h	Getspec rewrite, Make Gyro/Phi spec	05/23/13			Aaron			
4711i	Getspec rewrite, Make En spec	05/23/13			Aaron			
4740	Getspec rewrite, bells, whistles, keywords etc.	07/08/13			Aaron	~1 week work remaining		
4741	Getspec rewrite, GUI modifications to support new code	07/08/13			Aaron			
4757	Implement wrapper routine for new moment calculations		Aaron		Aaron	Similar to spectrogram wrapper		
4314d	combination of ESA and SST data could only be done in the Geometric mode. Would be great if it could be done in other modes as well.	8/11/2011	Xuzhi	4	Aaron		1 hr	
	Cindy							
4153	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Cindy	Exclude List up to date as of 9/20/2012, updates in progress (will take a while because we're so far behind)		
4358	Every 6 months check that the UCLA Mag Cal have not changed.	9/6/2011	David	0	Cindy	Next September 2013		
4751	Locate Photoshop files and update plot keys for overview plots and GUI plots	08/05/13			Cindy	"Deep plasma sphere" bit repurposed to "Very low magnetic field (> 30 Re)" for ARTEMIS probes. Photoshop file now checked into repository.		
4753	Edit CARISMA master CDFs for PI info & reprocess data CDFs	08/08/13			Cindy			
4842	GUI API – Plugin access to GUI configuration settings dialog (remote, local data dirs, etc)	1/18/2013		1	Cindy	Convert to tabbed interface, like "load data" panel.		
4759	Clean up temp(?) files on UCLA mirror site that are causing error messages in cron output				Cindy	Cron output has been going to wrong C Russell until today, but you should be seeing the messages from now on...		
4743	Clean up GMAG processing scripts		Cindy	2	Cindy	many variations of wget wrappers, will be much cleaner when code is consolidated.		
	Eric							
4731	Add support for loading netcdf files	06/25/13	GEM-SPEDAS	1	Eric	Implement netcdf2tplot as first step, then work with Janet Green to develop load routine for GOES netcdfs. Load routine now working for particle & mag data, working on some bug fixes.		

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4750	Add support for a standalone GSM->aGSM cotrans routine	08/02/13	Eric		Eric	Should accept either solar wind velocity data, or a user-provided rotation angle. Should live with other analytic transforms.		
4749	OMNI solar wind velocity missing coordinate system attribute	08/02/13	Eric		Eric			
4736	Add support for aGSM coordinates to neutral sheet model	06/27/13	Eric	2	Eric			
4724	Calendar widget should indicate valid date range	06/25/13	GEM-TDAS tutorial	2	Eric	Maybe a tooltip?		
4737	NaN vs "missing" in legend box	07/01/13	Pat	2	Eric	If cursor is outside the range of loaded data, should show "Missing" or "Out of range" instead of NaN in legend box.		
	Jim L							
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	issue with FGS processing - timestamps	9/30/2010	Vassilis	0	Jim L	not trivial. After 4764		
2266	Timing of Spin Fit data	10/16/2009	Jim McFadden	0	Jim L	See 4142 After 4764		
	Jim M							
4732	Rename TDAS to SPEDAS for next release	06/25/13	GEM-SPEDAS		Jim M	Issues with thm prefixes -> spedas or spd, repository organization. First step may be to rename things in the release build scripts without disturbing the repository, if practical. Make separate nightly zip file with SPEDAS rather than TDAS "branding".		
4152b	change the ESA tables such that the minimum magnetospheric electron energy becomes lower (about 3eV, or lower). McFadden can specify the lower energy	10/20/2011	Vassilis	0	Jim M	**Scripts appear to be running but we're still seeing the old configs. Need to work with John McD, seems like a flatsat setup issue.**		
	Nick							
4755	Heidi Fuqua help request				Jim /Nick	She can access the THEMIS website via web browser, but can't download data in TDAS (MacOS, IDL 8.2.3, TDAS 8). Might be related to firewall or VPN configuration?		
4728	Use SPDF web services to write a generic SPEDAS plugin to import arbitrary data sets	06/25/13	GEM-SPEDAS		Nick	Try using this method to access RBSP data		
4734	trange keyword doesn't clip for thm_load_state	06/25/13	GEM-TDAS tutorial		Jim L	By design (to avoid clipping spin model). Leave spin model alone, but clip other tplot variables?		
4704	Web site code & files should be checked into SVN	5/9/2013	Jim L		Nick	THEMIS done & deployed, ARTEMIS site next		
4745	tplot_ascii formatting bug	07/25/13	Andre Runov		Nick	He was trying to print spectral tplot variables with values a few values that are very small negative numbers. (e.g. -1.23456789e-14, caused by round-off error in operations that would ideally be producing a result that is zero.) What he found is that the spaces between the columns can disappear which breaks parsing when he tries to read the values back in.

#1 This should be fixed. It should detect if it needs additional space to write a number and use wider columns.
#2 There is no keyword in tplot_ascii to manually control formats. There should be.(The workaround I gave him was to edit tplot_ascii.pro, obviously no ideal) | | |
4752	Add GUI configuration option to specify command to use to spawn a web browser				Nick	No standard environment variable on Linux/Mac to reliably get user's preferred browser. (Hold until work on new configuration panel is completed?)		
4729	Investigate bug tracking/wiki support for SPEDAS developers	06/25/13	GEM-SPEDAS		Nick?	Work with Clarina to do test install of issue tracking, wiki, blog tools		
4738	User-friendly indication of availability of various THEMIS products over time (e.g. no L2 MOM until boom deployment)	06/25/13	GEM-TDAS tutorial		Nick?	THEMIS done, GOES, WIND, RBSP in progress		
	Pat							

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4771	Writeup for new SST calibration	9/28/2012		1	Pat/Drew	For senior review. After 4844. Waiting for results of Drew's analysis, may implement a few more slight improvements.		
4711b	Getspec rewrite, sanitize SST	05/23/13			Pat	Convert to physical units, standard internal representation, strip extraneous fields to save memory		
4711d	Getspec rewrite, FAC transform	05/23/13			Pat	In progress. Needed to test some of Aaron's code updates.		
4711e	Getspec rewrite, Regrid	05/23/13			Pat			
4711f	Getspec rewrite, Apply PA and gyro limits	05/23/13			Pat			
4740	Getspec rewrite, bells, whistles, keywords etc.	07/08/13			Pat	Adding support for new SST calibrations, about 1 week effort remaining		
4744	Add combined ESA/SST moments capability to new particle routine	07/24/13	Pat		Pat	I was talking to Drew about particle stuff yesterday and we got to talking about how our goal for THEMIS particles should be combined ESA/SST particle products. (Spectra and moments) Doing this for spectra should be pretty easy with the new routine. (Just pass in a concatenated structure and it should work.) Doing this for moments would be pretty tricky in the current configuration because it makes a lot of assumptions about the particular instrument that it is working with. But Aaron and I were thinking that we could probably add moments capability to the the new particle routine pretty easily and this could be done in a way that was sufficiently generic that it would not choke on a combined particle distribution struct. I don't think it would be more than a week for one of us to do this.		
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.		