Image: Note: Problem in the second	Task #	Task Description	Date	Reported By	Pri	Assigned To	Notes	Estimate	script; suite;
3028   Add heat flux (derived from eflux) to 12 ESA   Image for Mail and Comparison of Mark and Society (Mark and Soc						j			11/21 116///21
1000   pendeator: read map for funde development   10000   1000   1000   <	5026			Tai Phan		TBD	Will implement after Tai does some testing to determine how		
1000 1000 Incredention 1000 1000 1000 1000 1000   1000 Incredention Incredentio	5049	spedas.org: add article with full list of capabilities (not just since last		Nick					
image for which data existsimage for whic				Nick					
Image: Section of the station free and derived from. Bob M will update masterwhich stations they are derived from. Bob M will update master5058Recurring task: periodically check CDAWeb plots, legends, etc. To resure that they're consistent with what our solvavare produces.NoBob McGuireNoEspecially important when new CDF's or variables are added, or when people are proping to Senior ReviewNo5060GE consistent with what our solvavare produces.Mini-GEMNoIteoud be note to have an "About" page for each plugin.No5100About page for pluginsMini-GEMNoNoNoNoNo5101Handing of no. draw flag in call_sequence object (addPluginCallNoNoNoNoNo5102Handing of no. draw flag in call_sequence object (addPluginCallNoNoNoNoNo5103IncondIncondIncondNoNoNoNoNo5114IncondIncondIncondIncondIncondIncondNoNoNo5111IncondI	5051	Load Data tabs: each tab should get some text stating the time range for which data exists		Nick					
ensure fiat they/re consistent with what our software produes.Image: Construct the stand of the s	5054	THEMIS web page		Bob McGuire			which stations they are derived from. Bob M will update master		
or epoch, other?)or				Bob McGuire					
International would be a good place for a "ubes of the road" statement, or would be a good place for a "ubes of the road" statement, or attement, or debug redets, or preferred from of acknowledgements)5107Handling of no_draw flag in call_sequence object (addPluginCall method)Image: Statement, or debug. Better way to handle this?Image: Statement, or <br< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></br<>									
method)oro	5105	"About" page for plugins		Mini-GEM			would be a good place for a "rules of the road" statement, or		
Image: space of the space of	5107					TBD			
5111Image: space of the space of	5109								
112113114114114114114114114113114 <td< td=""><td>5110</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	5110								
5113Image: constraint of the sector of the sect	5111								
5114Image: space	5112								
Image: Constraint of the sector of the sec	5113								
Tips of the MonthTips of the MonthTips of the MonthDavidDavidJim LNext 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 datagap4661I 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. Sho6/6/2012Lydia1Jim LWait 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.Image to load routine. Will not do "load highest version" responsibility of WIND developers.4018aNew Calibration FGM parameters and spin axis offsets5/10/2010Hannes1Hannes12/06/2012: Cal files updates, all probes from mid-August 2012 on.14080Attitude Determination next few months6/21/2010Hannes1Hannes5-24-2013 Updated for 2012-12-01 - 2013-02-21, tha, thd, the14472Inter-spacecraft FGM calibration for ARTEMIS.1/4/2012Vassilis1Hannes6/4/12 from Hannes: Artemis inter spacecraft differences show good results with current calibration6/4/12 from Hannes: Artemis inter calibration	5114								
Tips of the MonthTips of the MonthTips of the MonthDavidJimJim LNext 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, specpht datagape4661I 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. Sho6/6/2012Lydia1Jim LWait 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.Image to load routine. Will not do "load highest version" responsibility of WIND developers.Image to load routine.Image to									
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4018aNew Calibration FGM parameters and spin axis offsets5/10/2010Hannes1Hannes12/06/2012: Cal files updates, all probes from mid-August4080Attitude Determination next few months6/21/2010Hannes1Hannes5-24-2013 Updated for 2012-12-01 - 2013-02-21, tha, thd, the4472Inter-spacecraft FGM calibration for ARTEMIS.1/4/2012Vassilis1Hannes6/4/12 from Hannes: Artemis inter spacecraft differences show good results with current calibration		check availability at http://sprg.ssl.berkeley.edu/data/wind/3dp/ and test different combinations. There are cdfs for 3dp pm for 2012 on	6/6/2012	Lydia	1	Jim L	version numbers, if they're all consistent then 5 minute change to load routine. Will not do "load highest version"		
Autitude Determination next few months6/21/2010Hannes1Hannes5-24-2013 Updated for 2012-12-01 – 2013-02-21, tha, thd, the4472Inter-spacecraft FGM calibration for ARTEMIS.1/4/2012Vassilis1Hannes6/21/2 from Hannes: Artemis inter spacecraft differences show good results with current calibration		Hannes							
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	4018a	New Calibration FGM parameters and spin axis offsets	5/10/2010	Hannes	1	Hannes			
Image: Second se	4080	Attitude Determination next few months	6/21/2010	Hannes	1	Hannes			
Aaron Aaron	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			3/27/2012	David	0	Aaron	Provide weekly report and spreadsheet		

Task #	Task Description	Date	Reported By	Pri	Assigned To		Estimate	SCHPT; SUITE;
5106	Add checkbox to turn on THEMIS eclipse corrections in GUI		L. Alves		Aaron	Applies to ESA, SST, FIT, FGM, EFI, SCM, MOM for loading L1 data. use_eclipse_corrections=2 when enabled, 0 when disabled.		
4730	Integrate idIneturl 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.		
4929	Improve "basic" cribs		Pat		Volunteers?	Still to do: asi efi export fbk fft fgm fit spinfit gmag scm		
QA079	line options (feature)		Aaron			Line options has a setting to copy the current trace's settings to the other traces on a panel, but none to copy symbol settings. It would be better to have a single button that propagates both settings or a new button for symbol settings. Also, the current line settings button is in a separate box with the minimum-distance-to-draw-over option, which could lead users to conclude it only applies to that setting.		
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		
	Cindy							
	maintenance of gmag stations "Exclude List"	10/11/2010	David	0	Cindy	Weekly on Mondays		
	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?		
	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		
	Develop mini-GEM tutorial with SPEDAS 1.00 updates		Vassilis		Cindy	Tutorial: incorporate examples using Van Allen probes, POES,		
5092	GIMA network changed directory structure		Cindy		Cindy	Need to update ualaska rsync jobs to reflect new layout		
5094	Add ~10 new AUTUMN-X gmag stations				Cindy			
5095	ULTIMA/MAGDAS plugin		Peter Chi		Cindy			
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 sparseis 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		
	AE Stations: I am interested in including the "standard AE ground stations" i.e. the ones that go into the computation of the AE index - there are 12 - into the THEMIS pipeline. This is because we can then include them into the computation of our own pseu	10/19/2011	Vassilis	2+	Cindy			
4409b	Dixon (DIK) (AARI, Russia)	10/19/2011	Vassilis	2+	Cindy	Downloads in progress. Data from 2011 on has been made available; they have agreed to provide data back to 2007. No 1 sec data available (minimum 1 minute sample interval). Sasha pinged 04/2013.		

Task #	Task Description	Date	Reported By	Pri	Assigned To	Notes	Estimate	SCHPT; SUITE;
4409c	Cape Chelyuskin (CCS) (AARI, Russia)	10/19/2011	Vassilis	2+	Cindy	see 4409b		
4409d	Tixie Bay (TIK) (AARI, Russia)	10/19/2011	Vassilis	2+	Cindy	see 4409b		
4409e	Cape Wellen (CWE) - closed, replaced with Pebek (?) (AARI, Russia)	10/19/2011	Vassilis	2+	Cindy	see 4409b		
	Eric							
5073	SPEDAS plugin API refactoring		Jim L		Eric	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. For VM distro, it would be nice to have the option to restore a .sav file for that plugin before attempting to initialize itfeasible?		
	Develop a compound widget to make the Data Analysis window code reusable by plugins				Eric	After 5073		
5100	MAG coordinate transform: allow choice of specific dipole & epoch		Mini-GEM		Eric	Does current implementation allow fixed or variable dipole? What does NSSDC use? Default to IGRF model, allow user to		
5104	Updated AACGM coefficients?		T. Hori		Eric	Y2000, 2005, 2010? Same idea as 5100.		
5046	User guide updates				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			
4966	SPEDAS wiki				Eric	Document GOES plugin (data source, available data sets, processing notes if any)		
	Jim L							
4983	Steps in plot of FGS-Tsyg – related to timing problems or new issue?		Vassilis		Jim L			
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.		
5033	Draft document: "general" developement guidelines				Jim L	Circulate to Davin, and then the rest of the change committe members		
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.		
4142	tplot namespaces	9/30/2010	Vassilis	0	Jim L	May have fixed problem – if packet header time corresponds to spinphase between 0 and 143 degrees, timestamps need a -1 spin period correction (integration interval is V1 to V1, not MSSS to MSSS). Reprocessing L1 FIT to QA area to test.		
2266	Timing of Spin Fit data	10/16/2009	Jim McFadden	0	Jim L	See 4142 After 4764		
4692	Repeated prompts to load STATE support data	4/12/2013	Aaron		Jim L	I'm unsure on whether or not I'm seeing the correct behavior when state support data is loaded for cotrans operations. For SSE/SEL transforms the SLP data is loaded once, kept in the gui, and the user is not prompted again. For transforms that require s		

and isist configuration history.   1/20203   int   jmt   jmt <th>Estimate Script; suite;</th> <th>Notes</th> <th>igned To</th> <th>Pri</th> <th>Reported By</th> <th>Date</th> <th></th> <th>Task #</th>	Estimate Script; suite;	Notes	igned To	Pri	Reported By	Date		Task #
4815   Operating runke underse for GUI API, placeholders for rest of LIZ/2012   Vasalis   1   Control   Contro   Contre   Contro </td <td></td> <td></td> <td></td> <td></td> <td>Nick</td> <td>1/29/2013</td> <td>Change L0-&gt;L1 code to prevent out-of-order timestamps in iesa and isst configuration history.</td> <td>4849</td>					Nick	1/29/2013	Change L0->L1 code to prevent out-of-order timestamps in iesa and isst configuration history.	4849
SPEDAS to plagin interface   1			Jim L					4831
automated processing; some processing logs not preserved   vinited processing digs not preserved   vinited processing processing processing digs not preserved   vinited processing				1	Vassilis	12/7/2012		4815
eff, scm, fit, mony   fit   form   f		reprocess a time range early in the mission, the "last processed" date will get reset to the earlier date, which could trigger an unintended reprocessing of the full mission. "last processed"		1	Jim L	7/24/2012		4709
Line Line Line Line Line Line Line Line		fgm, fit, mom, updated; efi, scm, new eclipse crib in progress.	Jim L	1	Vassilis	7/27/2012		4716
Image: An analysis   Image: An		whether floats are big-endian or little-endian, set a static flag in		3	Vassilis		bau_sunpulse_met assumes x86 endiannes (BugzID=13)	2078
Image: Constraint of the second sec								
Image: Construction of the second s		repository; some files/subdirectories not present in SVN; some		1	Jim L	8/24/2012	Socware ksh directory cleanup	4735
"snapshof" mode. So we'd be getting into some unexplored territod. So we'd be getting into some unexplored accumuwill be an				1	Vassilis	8/18/2011	L1->L2 reprocessing for eclipse spin model corrections	4326c
testingtestingtestingtestingtestingtestingtestingtesting4451ctdas mods - if accumulate mode approved discuss at SW meeting12/1/2011Vassilis1Jim Ldouble chech slices and getspec as per Aaron (next up)14451dPut one probe in accumulate mode and verify correct L0->L1 and L1->L2 processing with live data.6/12/2011Jim L1Jim LAfter QA, review CDF "software version" requirement with SPDF.74476Discuss thmsoc_dp_current deployment process, avoid unintended1/5/2012Jim L, David1Jim LAfter QA, review CDF "software version" requirement with SPDF.74465Diagnose, repair? Spikes in FGS data.12/14/2011Vassilis1Jim LNo code changes required. Document on web site (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors		availability - after SST table updates and ESA energy table updates. Probably will have to wait until NuStar launch/EOC.		1	Vassilis	12/1/2011	"snapshot" mode. So we'd be getting into some unexplored territory. The time tagging code in the L0->L1 particle distribution processing would need some slight modifications to support	4451
4451dPut one probe in accumulate mode and verify correct L0->L1 and L1->L2 processing with live data.6/12/2011Jim L1Jim LJim L4476Discuss thmsoc_dp_current deployment process, avoid unintended updates from trunk1/5/2012Jim L,David1Jim LAfter QA, review CDF "software version" requirement with SPDF.4465Diagnose, repair? Spikes in FGS data.12/14/2011Vassilis1Jim LNo code changes required. Document on web site (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when (anomalies/watch out fors) as something to be aware of when 		When MOC support available, probably after NuStar.	n L / Ops	1	Jim L	6/12/2011		4451b
L1->L2 processing with live data.Image: second		double chech slices and getspec as per Aaron (next up)	Jim L	1	Vassilis	12/1/2011	tdas mods - if accumulate mode approved discuss at S/W meeting	4451c
updates from trunkupdates from trunkSPDF.SPDF.4465Diagnose, repair? Spikes in FGS data.12/14/2011Vassilis1Jim LNo code changes required. Document on web site (anomalies/watch out fors) as something to be aware of when4034a3awaiting feedback and performing analysis11/22/2010Vassilis1Jim LTips of the Month at some point?4236Ferdinand P. suggests that we make available a diagnostic quantity diagnostic quantity (from eclipse spin modeling procedure. Add "phase" diagnostic quantity (from eclipse spin modeling process) to L1 STATE CDF, to give end users a sense of the expected angular err5/23/2011Ferdinand1Jim LJim LHard for SPDF to deal with, with their plotting tools - review2047Separate E and B timestamps for spin fits: a) make a revised V02before theVassilis1Jim LHard for SPDF to deal with, with their plotting tools - review4030psir6cross-check SST psir6 and psif data types for excess counts in psir64/8/2010Jim McFadden1Jim LJim L talked to Davin and sounds like we can shut the data off. Jim L will send email on the time saved by shutting this			Jim L	1	Jim L	6/12/2011	Put one probe in accumulate mode and verify correct L0->L1 and L1->L2 processing with live data.	4451d
AdditionAdditionAdditionAdditionAdditionAdditionAddition4034a3awaiting feedback and performing analysis11/22/2010Vassilis1Jim LTips of the Month at some point?Addition4236Ferdinand P. suggests that we make available a diagnostic quantity produced by the eclipse spin modeling procedure. Add "phase" diagnostic quantity (from eclipse spin modeling process) to L1 STATE CDF, to give end users a sense of the expected angular err5/23/2011Ferdinand1Jim LJim LImage: State Bit Interstamps for spin fits: a) make a revised V02before theVassilis1Jim LHard for SPDF to deal with, with their plotting tools - review4030cross-check SST psife and psif data types for excess counts in psife4/8/2010Jim McFadden1Jim LJim L talked to Davin and sounds like we can shut the data off. Jim L will send email on the time saved by shutting this				1	Jim L,David	1/5/2012		4476
4034a3awaiting feedback and performing analysis11/22/2010Vassilis1Jim LTips of the Month at some point?Import at some point?4236Ferdinand P. suggests that we make available a diagnostic quantity produced by the eclipse spin modeling procedure. Add "phase" diagnostic quantity (from eclipse spin modeling procedure. Add "phase" diagnostic quantity (from eclipse spin modeling process) to L1 STATE CDF, to give end users a sense of the expected angular err5/23/2011Ferdinand1Jim LJim LJim C1-3 de2047Separate E and B timestamps for spin fits: a) make a revised V02before theVassilis1Jim LHard for SPDF to deal with, with their plotting tools - review off. Jim L talked to Davin and sounds like we can shut the data off. Jim L will send email on the time saved by shutting this1		No code changes required. Document on web site (anomalies/watch out fors) as something to be aware of when	Jim L	1	Vassilis	12/14/2011	Diagnose, repair? Spikes in FGS data.	4465
produced by the eclipse spin modeling procedure. Add "phase" diagnostic quantity (from eclipse spin modeling process) to L1 STATE CDF, to give end users a sense of the expected angular errImage: State				1	Vassilis	11/22/2010	awaiting feedback and performing analysis	4034a3
4030 cross-check SST psir6 and psif data types for excess counts in 4/8/2010 Jim McFadden 1 Jim L talked to Davin and sounds like we can shut the data psir6	1-3 days		Jim L	1	Ferdinand	5/23/2011	produced by the eclipse spin modeling procedure. Add "phase" diagnostic quantity (from eclipse spin modeling process) to L1	4236
psir6 off. Jim L will send email on the time saved by shutting this		Hard for SPDF to deal with, with their plotting tools - review	Jim L	1	Vassilis	before the	Separate E and B timestamps for spin fits: a) make a revised V02	2047
				1	Jim McFadden	4/8/2010		4030
4030b   Correct Existing Data   5/17/2010   Jim McFadden   1   Jim L   4030a prerequsite		4030a prerequsite	Jim L	1	Jim McFadden	5/17/2010	Correct Existing Data	4030b
4030cIf scripts change - make changes to processing scripts5/17/2010Jim Lewis1Jim L4030a prerequsite4-5 da	4-5 days	4030a prerequsite	Jim L	1	Jim Lewis	5/17/2010	If scripts change - make changes to processing scripts	4030c

Task #	Task Description	Date	Reported By	Pri	Assigned To	Notes	Estimate	SCHPT; SUITE;
QA110	as you know we have a few folks here in our SPDF group who are using the THEMIS-B and C data for a lunar project. They have found and I've confirmed through CDAWeb, that the time stamps and associated data measurements for October, 9, 2010 THEMIS-B ESA,	2/7/2011	Tami	1	Jim L	Web Site - instruments will have a web page with "Sources of Data Anamolies". The first one being the ESA issue		
4301	"bad" themis thg I2 files - instrument files; L0->L1 processing produces incomplete/empty CDFs	8/1/2011	Tami	2	Jim L	one fixed - one priority 2 (data type VBx appeared once due to corrupted packet, produced empty CDF)		
2248	once in a while (maybe 10-20 occurrences per probe during the entire mission), the FGM range doesn't change on all three axes at once:	9/10/2009	Jim L	2	Jim L			
	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.		
5099	Reprocess SCMODE CDFs				Jim M	Reprocessing might go faster if uncalibrated L1 rather than L2 waveburst data is loaded.		
5091	Reprocess overview and ESA ground, onboard, moments plots				Jim M	L2 CDFs have had background subtraction applied, not reflected in summary plots		
5057	Apply offset correction to equalize pxxm_pot with vaf s/c potential (optional keyword)		Jim M			Not default, add a keyword & documentation		
5078	Moments code crashes, problem seems to be due to missing fgs data?		Tai Phan		Jim M	dead time corrections should be done in L1->L2 processing. Also, DTC don't seem to be working!		
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.		
QA116	refactor wavelet transform					When we're done with QA, we should really consider refactoring the wavelet transform code in the data processing panel. It's very difficult (almost impossible) to figure out what's happening in 'spd_ui_dproc_par_choose'.		
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.		
4927	Rename SPEDAS str_replace function to resolve conflict with Fanning's popular "Coyote graphics" IDL library.				Jim M			
4739	Investigate SVN-level access controls (e.g. keep SPEDAS developers out of ssl_general?)	07/01/13	Jim L		Jim M			
4690	thm_mom_cotrans_cltestsuite is obsolete, either needs a complete rewrite to conform to current thm_load_mom usage, or merge any non-redundant tests into existing test scripts.	03/04/13	Jim M		Jim M	This test script can be dropped. In fact, most of the "cotrans" CL test scripts should be folded into the instrument "load" CL tests, with the exception of tests like cotrans_all_combos.		
4779	SVN commit hooks for updating "Help->About" screen with current revision number. Possible for TDAS version string as well?	10/9/2012		1	Jim McT	It might be a good idea to add some functions like "get_tdas_revision" or "get_tdas_version_string", so that only a couple of files would be subject to version string updates, rather than having version string literals scattered around the TDAS code base		

Task #	Task Description	Date	Reported By	Pri	Assigned To	Notes	Estimate	script; suite;
4152c	change the ESA tables such that electrons and ions can be changed separately into magnetospheric and solar wind modes.	10/20/2011	Vassilis	0	Jim M			
4694	Developers guide/admin guide update: troubleshooting SSH (SVN/rsync) access	7/6/2012	Jim L	1	Jim M	When setting up SVN access for a new user (or an old user using a new computer), or if a host key has changed, might need to do an interactive SSH login to answer the host key verification prompt before SVN or rsync will work. Dev guide due to SVN+SSH is		
4003	Document: ESA File and Calibation Processing	3/5/2010	David	1	Jim M			
4312	Quality flags for efi are wrong including electric field offsets in computation. On hold until Michael Hartinger sorts out.	8/8/2011	Vassilis	1	Jim M	Other QF issues for EFI: SDT time intervals; incorrect biasing on THA due to changes in photoemission		
4208a	Enhanced MOM Instrument Web Pages	3/5/2010	David	2	Jim M	Talked to David first.		
	Nick							
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.		
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		
5096	POES overview plots on web				Nick			
5097	Gaps at UTC date boundaries in summary plots		Solene		Nick	May need padding if loading L1 data. Should also check L2 to see if padding is adequate for longer packet periods.		
5108	Test danaid3 (upgraded from Centos 5.7 to 6.6)				Nick	Any incompatibilities with existing PHP scripts, database tools, cron jobs?		
QA163	(minor) Apply to all does not propagate title size, font, and color to other panels.		Aaron					
QA152	(page options) The "apply to all" option propagates the header/footer text, but should only copy the formatting options. This could probably wait until after release.		Aaron			(on a side note: it might be a nice feature to have a tab-specify apply to all as we've done with the x/y and z axis options)		
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 January 2014		
5101	Nonstandard value for earth radius		Bob Strangeway		Pat			
4929	Improve "basic" cribs		Pat		Volunteers?	Still to do: asi efi export fbk fft fgm fit spinfit gmag scm		

Task #	Task Description	Date	Reported By	Pri	Assigned To	Notes	Estimate	Script; Suite;
5090	crib to subtract SST-FT channels from corresponding SST-O channels to remove electron contamination in SST psif data		Pat		Pat			
	This is unrelated to the test suite, but I noticed that the GUI's title bar icon is still the THEMIS logo (might only show up on windows).		Aaron					
5084	Evaluate options for producing a call graph from a corpus of IDL code		Jim L	2	Pat	Write a custom parser, or leverage existing IDL tools?		
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		
5036	Troubleshoot/enhance CL test scripts for file_http_copy, file_touch		Jim L		Pat			
4907	tplot namespaces		Pat		Pat	Add capability to create tplot variables in different namespaces (e.g. for creating tplot variables inside GUI without disturbing existing variables). Is it feasible to get this change implemented in time for the next SPEDAS release?		
2060	L2 cdf Quality Flags: for SST		Vassilis	2	Pat	Bitfields, or CDF_DOUBLE (like ESA quality flag)? Not for this reprocessing.		
	SST: We need to generate a combined spectrum product that includes the FTO(low) channel. This would be adding the FTO(low) channel to the F+FT combined spectrum that we've already created.	5/17/2012	Vassilis	2	Pat			
	Write code to remove proton and electron contamination from the electron and proton distributions using data and efficiencies from the F & O channels.	6/27/2011	Pat	2	Pat	Working on noise removal, etc.		
	SST: After #a-d are done, we need to reprocess SST L2 with sun contamination removed and new calibrations applied.	5/17/2012	Vassilis	2	Pat	need 4267c to be completed		
4603	make new SST Cal standard	3/22/2012	Vassilis	2	Pat	Revisit in July <b>** on hold **</b>		
	A limitation for tplot came up for the EMIC plots. If you want to use the var_label feature(for example, to plot spacecraft position below spacecraft data) you can only put the var labels at the very bottom of the plot. In the case of EMIC, what we actu	8/2/2012	Pat	2	Pat	You can't actually do this in tplot right now. To work around this limitation for the EMIC plots, I'm going to do some tricks making separate plots in the z-buffer and concatenating them then reposting them to the z-buffer. This will work for the overvi		
	The bug that Drew had reported yesterday turned out to be not a bug, but because the bins that the sun decontamination code selected differed depending on the date selected and this wasn't clearly reported to the end-user. I put an informational message	2/22/2012	Pat	2	Pat			
4208b	Enhanced SST Instrument Web Pages	3/5/2010	David	2	Pat	See current ESA Instrument Web Pages - Make recommendations to Vassilis to improve.		