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4901 COES overview protes 4902 Coeff from two Chawbbweb services, how to handle dependency on CDAWlb routines? 4903 Add data via CDAWsbweb services, how to handle dependency on CDAWlb routines? 4904 Altitude Determination next few months 4907 Aurona Auron 4908 Prevent unnocessary reloads of particle data 4908 Compare magnetometer data between oid & new GOES routines 4909 Compare magnetometer data between oid & new GOES routines 4909 Compare magnetometer data between oid & new GOES routines 4900 Compare magnetometer data between oid & new GOES routines 4900 Compare magnetometer data between oid & new GOES routines 4901 Lout routine of OCES optimisers data from SCWeb 4911 Lout routine of OCES optimisers data from SCWeb 4912 Spewn WWW data availability tool from THEMS load panel 4913 March Compare from the from the following panel of the following pa	Task#	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	UG; DevG;
## Fresh vision position x rays. ## According to the provision of the prov		To be Assigned or Discussed							
4902 Load data via COAWbit requires pre-complatinn, also has very generation on CoAWbit nequires pre-complatinn, also has very generation of the complete of t	4901	GOES overview plots				TBD	ready to use. Should include e-, i+, B field, s/c position, X rays,		
Prevent unnecessary reloants of particle data Aaron Respiratory ariables is relassible to get this charge implemented in dire for the next SPEDAS release?	4902			Nick			CDAWlib requires pre-compilation, also has very generic/conflicting routine names, making it hard to integrate with TDAS. Can the web services be used without having a dependency on CDAWlib code?		
compare magnetometer data between old & new GOES routines Compare magnetometer data between old & new GOES routines Jim L Enc check data from NOAA probably used different cotrans code, check data from Borkeley Compare magnetometer data between old & new GOES routines Jim L Enc check data from NOAA probably used different cotrans code, check data from Borkeley Compare magnetometer data between old & new GOES routines Teric Enc Add to WIND and other load panels when those data sets are added to the data availability database Add to WIND and other load panels when those data sets are added to the data availability database Hannes Hannes Hannes Wew Calibration FSM parameters and spin axis offsets 5/10/2010 Hannes 1 Hannes 21/26/2012: Cal files updates, all probes from mid-August 2012 on. 4018 Auton Auton Auton Auton Auton Auton Auton Auton Auton Cestpec rewrite, sanitize ESA 05/23/13 Auton Auton Auton Auton Fowled weekly report and spreadsheet Tracking down last few discrepancies (e.g. finging) Auton Auton Auton Auton Fine Center Eric Eric Eric Add to WIND and other load panels when those data sets are added to the data availability database Auton Hannes 1 Hannes 1/20/2012: Cal files updates, all probes from mid-August 2012 on. 4012 (a. files updates, all probes from mid-August 2012 on. 4026/21/2010 Hannes 5/24-2013 Updated for 2012-12-01 – 2013-02-21, tha, thd, the Auton Auton	4907	tplot namespaces		Pat			(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?		
check for consistency with CDF data from Berkeley 4910 Corn job for updating geomagnetic indices at UCLA 4911 Load routine for GDES ephemeris data from SSCWeb 4912 Spawn WWW data availability tool from THEMIS load panel 4913 Hannes 4913 Hannes 4018 Hannes 4018 Hannes 5710/2010 Hannes 1 Hannes 4018 Autitude Determination next few months 6721/2010 Hannes 1 Hannes 5720/2012 Call files updates, all probes from mid-August 2012 on. 4080 Autitude Determination next few months 6721/2010 Hannes 1 Hannes 5720/2013 Updated for 2012-12-01 - 2013-02-21, that, thd, the 4472 Inter-spacecraft FGM calibration for ARTEMIS. 1/4/2012 Vassills 1 Hannes 664/12 from Hannes: Artemis inter spacecraft differences show good results with current calibration Aaron 4080 Ongoing - Review all commits by Davin, Peter, etc for impact to TDAS. 4711a Getspec rewrite, Apply theta-energy,phi limits 6723/13 4711a Getspec rewrite, Apply theta-energy,phi limits 6723/13 4711a Getspec rewrite, Make Gyro/Phi spec 6723/13 4711b Getspec rewrite, Make Gyro/Phi spec 6723/13 4710 Getspec rewrite, Make Gyro/Phi spec 6723/13 4711 Getspec rewrite, Make Gyro/Phi spec 6723/13 4720 Aaron 6729/13 4730 Aaron 6729/13 4731 Getspec rewrite, Make Gyro/Phi spec 6729/13 4731 Hannes 6730 Aaron	4908	Prevent unnecessary reloads of particle data		Aaron			that gaps at beginning/end of day don't cause unnecessary		
4912 Spann WWW data availability tool from THEMIS load panel 4913 4914 Hannes 4018a New Calibration FGM parameters and spin axis offsets 4018b New Calibration FGM parameters and spin axis offsets 4018b New Calibration FGM parameters and spin axis offsets 4018b New Calibration FGM parameters and spin axis offsets 4018b New Calibration FGM parameters and spin axis offsets 4018b New Calibration FGM parameters and spin axis offsets 4018b New Calibration FGM parameters and spin axis offsets 4019b Attitude Determination next few months 4019b Attitude Determination next few months 4019b Attitude Determination rext few months 4010b Attitude Determinat		, ,		Jim L		Eric	netcdf data from NOAA probably used different cotrans code, check for consistency with CDF data from Berkeley		
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4711c Getspec rewrite, Apply theta,energy,phi limits 4711g Getspec rewrite, Make PA/Theta spec 4711d Getspec rewrite, Make Gyro/Phi spec 4711h Getspec rewrite, Make Gyro/Phi spec 4711i Getspec rewrite, Make En spec 4711i Getspec rewrite, Make En spec 4710 Getspec rewrite, Make En spec 4740 Getspec rewrite, bells, whistles, keywords etc. 4741 Getspec rewrite, GUI modifications to support new code 4742 Getspec rewrite, GUI modifications to support new code 4757 Implement wrapper routine for new moment calculations 4764 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	4711a	Getspec rewrite, sanitize ESA	05/23/13			Aaron			
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4740 Getspec rewrite, bells, whistles, keywords etc. 4741 Getspec rewrite, GUI modifications to support new code 4741 Implement wrapper routine for new moment calculations 4757 Implement wrapper routine for new moment calculations 4764 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 4775 Geometric mode. Would be great if it could be done in other modes	4711h	Getspec rewrite, Make Gyro/Phi spec	05/23/13			Aaron			
4741 Getspec rewrite, GUI modifications to support new code 4757 Implement wrapper routine for new moment calculations 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 4767 Geometric mode. Wrapping up "replay THEMIS document" changes, should be the last item for this task. 577 Similar to spectrogram wrapper 4870 Aaron 4870 Aaron 578 Aaron 4870 Aaron 579 Aaron 1 hr						Aaron			
Institute Inst						Aaron			
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 8/11/2011 Xuzhi 4 Aaron 1 1 hr			07/08/13			Aaron	last item for this task.		
Geometric mode. Would be great if it could be done in other modes				Aaron		Aaron	Similar to spectrogram wrapper		
	4314d	Geometric mode. Would be great if it could be done in other modes	8/11/2011	Xuzhi	4	Aaron		1 hr	

Task#	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E crib; script; suite; UG; DevG; Qref; AdmG
4689	need to keep clicking "yes to all" when replaying document that overwrites data. Also need to track deletions of data.	03/27/13	Pat	2	Aaron	Looking into this one, I found that quite a few operations don't have overwrite queries tracked: Interpolate pwrspc calc nudge getspec Some seem to default to overwriting, some default to repeated queries to user. Original report: I loaded data for probes b and c and then went to plot the data and realised I should have loaded a and b for the tests. I returned to the load data panel and loaded the probe a data before deleting the probe c data. After saving as a themis document and reopening, the c data was loaded but not deleted. The data that was loaded and deleted using delete all data following the testscript does not appear when you reopen the document (as you'd expect).		
4150	Cindy	10/11/2010	Dovid	0	Cindu	Modely on Mondayo		
	maintenance of gmag stations "Exclude List" Every 6 months check that the UCLA Mag Cal have not changed.	10/11/2010 9/6/2011	David David	0	Cindy Cindy	Weekly on Mondays Next September 2013		
	GMAG station status: troubleshoot stations with no data reported	9/0/2011	Daviu	0	Cindy	Next September 2013		
4701	Ping Sasha for status of back AE station data				Ciriuy	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	September 2013		
4903	Not receiving current data from Russian GMAG sites, seems like server has been moved or renamed?		Cindy			No responses from Oleg or Alexander, who is appropriate point of contact?		
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. Still need to regenerate key.png and install to THEMIS and ARTEMIS production directories.		
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. Need to fix bug in handling hw vs. sw rendering setting (corrupts draw object)		
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					database sorromae for the various compter.		
4905	Acknowledgments for GOES data from NOAA?		Eric			Contact Howard Singer to find out who should approve acknowledgements		
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.		
	OMNI solar wind velocity missing coordinate system attribute	08/02/13	Eric		Eric			
	Add support for aGSM coordinates to neutral sheet model	06/27/13	Eric	2	Eric			
	Calendar widget should indicate valid date range	06/25/13	GEM-TDAS tutorial	2	Eric	Maybe a tooltip?		
	NaN vs "missing" in legend box Set up cron jobs for mirroring NOAA data at UCB and UCLA	07/01/13	Pat Eric	2	Eric Eric	If cursor is outside the range of loaded data, should show "Missing" or "Out of range" instead of NaN in legend box. May not be needed any more, can load directly from netCDF		
4/14	Jim L	03/24/13	LIIC		LIIC	files		
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.		
	issue with FGS processing - timestamps	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		
	Jim M							

Tools#	Tools Depositation	Doto	Departed Dir	D.::	Assistant To	Nata		
Task#	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E crib; script; suite; UG; DevG; Qref; AdmG
4732	Rename TDAS to SPEDAS for next release	06/25/13	GEM-SPEDAS		Jim M	Have scripts to rename files & function/procedure calls and definitions, testing snapshot scripts, will destroy branch and recreate from trunk when things seem to be working smoothly.		
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? Do we need another label on spectrogram plots? A plot key entry?		
4906	Add 2-hour orbit plots for THEMIS A,D,E (without RBSP)							
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.		
	Investigate SVN-level access controls (e.g. keep SPEDAS developers out of ssl_general?)	07/01/13	Jim L		Jim M			
	thm_mom_cotrans_citestsuite 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.		
4820	Need IDL-only FITS reader code suitable for inclusion in SPEDAS	12/11/2012	Mini-GEM		Jim M	Checked into SVN, needs to be documented in developers guide.		
	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.		
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 that would all have to be updated. Will try making an ASCII file in bleeding_edge and release builds, see how that works before implementing SVN hooks.		
	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.		
	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			
	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 issue, Admin guide due to rsync over SSH issue. Additional note: people using putty/pageant on 64-bit machines should make sure they're using the latest version of putty, otherwise will have hard-to-diagnose access problems. 10/10/2012: Recent versions of MacOS ship with a different version of OpenSSH which causes problems for svn+ssh URLs. Resolution: edit .subversion/config [tunnels] section, add new 'tdas' protocol with "tdas = ssh -T -p 36867", then use "svn+tdas" instead of "svn+ssh" URLs.		
	Document: ESA File and Calibation Processing	3/5/2010	David	1	Jim M			
	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	discuss with Vassilis		
4208a	Enhanced MOM Instrument Web Pages	3/5/2010	David	2	Jim M	Talked to David first.		

Task#	Task Description	Date Opened	Reported By	Pri	Assigned To	Notes	Estimate	A&E crib; script; suite; UG; DevG; Qref; AdmG
	Nick							
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		
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.g1.23456789e-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, GOES done, WIND, RBSP in progress		
	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		
4771	Writeup for new SST calibration	9/28/2012		1	Pat/Drew	For senior review. After 4844. Working on a bug report from Drew		
4711b	Getspec rewrite, sanitize SST	05/23/13			Pat	Convert to physical units, standard internal representation, strip extraneous fields to save memory		
	Getspec rewrite, FAC transform	05/23/13			Pat	In progress. Needed to test some of Aaron's code updates.		
	Getspec rewrite, Regrid	05/23/13			Pat			
	Getspec rewrite, Apply PA and gyro limits Getspec rewrite, bells, whistles, keywords etc.	05/23/13 07/08/13			Pat	Should be ready to "flip the switch" and start using new code on		
4740	Getspec rewrite, bells, whisties, keywords etc.	07706/13			Pat	Monday.		
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		
4718	Add new variables to SST L2 master CDF	06/06/13	SPDF		Pat	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. New SST calibrations working well enough to start making new		