

CERES Requirements Log - Inversion

Reqm'ts No.	Requirement	SCCR	Provider	Responsible Subsystem	Responsible Person	How was it conveyed?	When was it received?	When was it accepted?	When was it completed?	Current Status
4.5-1	Prepare Subsystem for Aqua Edition2 processing	596	Bruce Wielicki	Inversion	Victor Sothcott, Sandy Nolan	Telephone call from Erika Geier	38552	38552	38663	
4.5-1.1	Modify SW Model B surface flux module to switch source of aerosol optical depth from GFDL to MATCH	596	Shashi Gupta	Inversion	Sandy Nolan, Victor Sothcott	email, Team meeting	38558	38558	38663	Code delivered to CM with Aqua Edition2 Inversion software
4.5-1.2	Modify SW Model A surface flux module to use aerosol optical depth at 550 nm	596	Anne Wilber	Inversion	Sandy Nolan, Victor Sothcott	email, Team meeting	38558	38558	38663	Code delivered to CM with Aqua Edition2 Inversion software
4.5-1.3	Update Aqua PGEs CER4.5-6.3P3 and CER4.5-6.6P3 to incorporate the Edition2 Aqua ADMS	596	Norman Loeb	Inversion	Victor Sothcott, Sandy Nolan	email	8/22/2005, 08/26/05	38590	38663	PGEs delivered to CERES CM on 11-07-05
4.5-1.4	Update Aqua PGE CER4.5-6.1P3 to incorporate the Edition2 Aqua ADMS	596	Norman Loeb	Inversion	Victor Sothcott, Sandy Nolan	email	8/22/2005, 08/26/05	38590	38663	PGE delivered to CERES CM on 11-07-05
4.5-1.5	Update LW Model B surface flux module to correct cloud based pressure	596	Shashi Gupta	Inversion	Victor Sothcott	email	38624	38624	38663	Code delivered to CM with Aqua Edition2 Inversion software
4.5-2	Convert subsystem production software to execute in Open Source environment		Mike Little	Inversion	Sandy Nolan	DMTM			39835	
4.5-1.2	Review code for conformance to ANSI standards			Inversion	Sandy Nolan		38462		39835	
4.5-2.2	Prepare subsystem conversion plan			Inversion	Sandy Nolan		38462		39835	
4.5-2.3	Port and test code on cluster when it becomes available			Inversion	Sandy Nolan		38462		39835	
4.5-3	Deliver updated SW and LW Surface flux modules to CERESlib after Aqua Edition2 software has been promoted at the ASDC		Erika Geier	Inversion	Victor Sothcott, Sandy Nolan	Telephone call from Erika Geier		38630		
4.5-4	Correct typographical error causing archiving of support files to fail.	614		Inversion	Victor Sothcott	email	38743	38743	38747	
4.5-5	Update CER4.5-6.2P2 PCF generator and Run script to support the -NoSW Production Strategy.	625		Inversion	Victor Sothcott	email	38834	38838	38839	
4.5-6	Modify SW Model B surface flux module to switch source of aerosol optical depth from MATCH back to GFDL.	638	Dave Kratz	Inversion	Victor Sothcott	email	38968	38973	39043	
4.5-7	Updated all PGEs to use Toolkit Version 5.2.12.	638	Erika Geier	Inversion	Victor Sothcott	email	38980	38980	39043	
4.5-8	Recompile of PGE's to support MOA MERRA	659	Erika Geier	Inversion	Victor Sothcott	email	39239	39248	39266	
4.5-9	Change subsetter so that the SCOOOL subsets use unnested grids.	659	Lin Chambers	Inversion	Victor Sothcott	Meeting	39245	39248	39267	
4.5-10	Add 'Exit Code:' to scripts to indicate the exit code for processing.	659	Lisa Link	Inversion	Victor Sothcott	Meeting	39261	39266	39268	

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4.5-11	Change the name and location of the SCOOOLRegions input file.	659	Lin Chambers	Inversion	Victor Sothcott	Meeting	39262	39266	39269	
4.5-12	Implement new algorithm Estimated Inversion Strength.	666, 704	Norman Loeb	Inversion	Victor Sothcott	email	39385	39385	40116	Delivered under SCCR 666 but retracted due to testing issues. To be redelivered under SCCR 704.
4.5-13	Implement the Constrained Surface Temperature algorithm.	666, 704	Shashi Gupta	SOFA	Victor Sothcott	meeting	39307	39307	40116	Delivered under SCCR 666 but retracted due to testing issues. To be redelivered under SCCR 704.
4.5-14	Implement the new LW Model C algorithm.	666, 704	Anne Wilber	SOFA	Victor Sothcott	meeting	38972	38972	40116	Delivered under SCCR 666 but retracted due to testing issues. To be redelivered under SCCR 704.
4.5-15	Update the LW Model A and LW Model B algorithms using the Constrained Surface Temperature.	666, 704	Shashi Gupta	SOFA	Victor Sothcott	meeting	39307	39307	40116	Delivered under SCCR 666 but retracted due to testing issues. To be redelivered under SCCR 704.
4.5-16	Update SW Model B algorithm to use monthly averaged cosine solar zenith angle and the new clear sky surface albedo.	666, 704	Shashi Gupta	SOFA	Victor Sothcott	meeting	39307	39307	40116	Delivered under SCCR 666 but retracted due to testing issues. To be redelivered under SCCR 704.
4.5-17	Update ADM's for Terra ANN SW ADM's, Fresh snow, Permanent snow and Sea Ice.	666, 704	Costy Loukachine	Inversion	Victor Sothcott	email	39092	39092	40116	Delivered under SCCR 666 but retracted due to testing issues. To be redelivered under SCCR 704.
4.5-18	Implement the new Delivery Directory Structure	666, 690	Jeff Walters	Inversion	Victor Sothcott	meeting	39470	39470	39835	
4.5-19	Deliver all Inversion Edition2 PGE's to run the on the Linux cluster at ASDC.	690, 782	Erika Geier	Inversion	Victor Sothcott	meeting			1/22/2009, 5/13/2010	Aqua delivered under 690 and Terra delivered under 782
4.5-20	Output to the SSF the following parameters: SW TOA flux - downwards, SW Model B downward surface flux - clearsky and LW Model B downward surface flux - clearsky	704	Dave Kratz	Inversion	Victor Sothcott	Meeting	39862	39862	40116	
4.5-21	Implement the new format for the SSF for Edition3.	704	Erika Geier	Inversion	Victor Sothcott	DMTM	39862	39862	40116	
4.5-22	Implement two new PGE's to create an Edition3 SSF product by combining an existing SSF product with an Edition3 IES.	722	Erika Geier	Inversion	Victor Sothcott	email	39939	39939	40310	
4.5-23	Implement Radiance Scaling factor ancillary file and code changes.	704	Norman Loeb	Inversion	Victor Sothcott	email	40108	40108	40116	
4.5-24	Update Sample Read Package to support Terra Edition2G and Aqua Edition2D/Ed2D-NoSW	769	Lindsay Parker	Inversion	Victor Sothcott	meeting	40240	40240	40262	
4.5-25	Implement two new PGE's to create and Edition2 SSF product by combining an existing Edition2 SSF product with an Edition3 IES.	786	Jonathan Gleason	Inversion	Victor Sothcott	email	40317	40317	40333	
4.5-26	Update CER4.5-6.2P2 subsetter to fix MODIS land and ocean aerosol parameters.	791	Norman Loeb	Inversion	Victor Sothcott	email	40336	40337	40448	
4.5-27	Update CER4.5-6.2P2 to add additional parameters to the subset.	791	Norman Loeb	Inversion	Victor Sothcott	email	40336	40337	40448	

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4.5-28	Update CER4.5-6.5P4 to allow for mismatched numbers of IES FOVs between Edition2 and Edition3 for Terra.	811	Norman Loeb	Inversion	Victor Sothcott	email	40462	40463	40464	
4.5-29	Update CER4.5-6.5P4 to allow for mismatched numbers of IES FOVs between Edition2 and Edition3 for Aqua.	812	Norman Loeb	Inversion	Victor Sothcott	email	40462	40463	40465	
4.5-30	Port Edition3-Beta2 software from magneto system to AMI system as Edition4-Beta1	814	Norman Loeb	Inversion	Victor Sothcott		40483	40483	41053	
4.5-31	Convert the input and output data structure to match the DPO data structure. Install production environment variables.	814	Victor Sothcott	Inversion	Victor Sothcott		40483	40483	41053	
4.5-32	Combine the Main and Alternate Processors into one PGE each for Terra and Aqua.	814	Victor Sothcott	Inversion	Victor Sothcott		40483	40483	41053	
4.5-33	Delete use of the CERESlib Radiometric Scale Factors file.	814	Dale Walikainen	Inversion	Victor Sothcott		40483	40483	41053	
4.5-34	Deliver surface algorithms to CERESlib	823	Victor Sothcott	SOFA	Victor Sothcott		40561	40561	40571	
4.5-35	Update Sample Read Package to support Terra and Aqua Edition3A.	824	Lindsay Parker	Inversion	Victor Sothcott	meeting	40561	40561	40564	
4.5-36	Add 'DefaultSCC' to pcfgenerator for Terra	828	Jonathan Gleason	Inversion	Victor Sothcott	meeting	40568	40568	40569	
4.5-37	Add 'DefaultSCC' to pcfgenerator for Aqua	829	Jonathan Gleason	Inversion	Victor Sothcott	meeting	40568	40568	40569	
4.5-38	Install LASP SORCE TSI data for Solar Constant into code through ancillary file	814	Dave Kratz	Inversion	Victor Sothcott	meeting	40605	40605	41053	
4.5-39	Implement updated SWB model with ancillary files	814	Shashi Gupta	SOFA	Victor Sothcott	meeting	40730	40730	41053	
4.5-40	Update CER4.5-6.5P4 to fix the 645 imager channel bug.	870	Jonathan Gleason	Inversion	Victor Sothcott	email	40817	40817	40822	
4.5-41	Update CER4.5-6.5P5 to fix the 645 imager channel bug.	871	Jonathan Gleason	Inversion	Victor Sothcott	email	40817	40817	40822	
4.5-42	Install updated SW Model B algorithm that uses MODIS Aerosols where they are available.	814	Dave Kratz	SOFA	Victor Sothcott	meeting	40870	40870	41053	
4.6-1	Update SW model B code to fix bug that allowed for negative surface albedo.	901	Shashi gupta	SOFA	Victor Sothcott	meeting	41038	41038	41053	
4.5-43	Update ceres_valregions file	901	Anne Wilber	SOFA	Victor Sothcott	email	41058	41058	41058	
4.5-44	Port PGEs CER4.5-6.2P4, CER4.5-6.4P1, CER4.5-6.5P4 and CER4.5-6.5P5 from the magneto system to the AMI/AMI-P systems.	912	Jonathan Gleason	Inversion	Victor Sothcott	meeting	41102	41102	41218	
4.5-45	Port PGEs CER4.5-6.1P2, CER4.5-6.1P3 and CER4.5-6.2P2 from the magneto system to the AMI/AMI-P systems.	913	Jonathan Gleason	Inversion	Victor Sothcott	Meeting	41102	41102	41263	
4.5-46	Update CER4.5-6.5P4 and CER4.5-6.5P5 to fix bug with SSFA file when there are mismatched numbers of IES FOVs between Edition2 and Edition3.	939	Victor Sothcott	Inversion	Victor Sothcott	email	41239	41239	41247	

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4.5-47	Update SGE job submission scripts for PGEs CER4.5-6.1P4, CER4.5-6.1P5, CER4.5-6.2P3 and CER4.5-6.4P2 to add the -platform option.	948	Vertley Hopson	Inversion	Victor Sothcott	meeting	41297	41297	41324	
4.5-48	Initial delivery of NPP FM-5 software	959	Jonathan Gleason	Inversion	Victor Sothcott	Meeting	41339	41339	41768	
4.5-49	Update of the Edition4-Beta software to combine the separate Terra and Aqua PGEs into one PGE for both.	973	Wenyng Su	Inversion	Victor Sothcott	Meeting	41470	41470	41695	
4.5-50	Update the initial delivery of the NPP FM-5 software.	974	Norman Loeb	Inversion	Victor Sothcott	Meeting	41401	41401	41695	This SCCR was disapproved.
4.5-51	Update the Edition3 software to fix an issue with the time change in IES files due to the software change from ADA to C++.	984	Norman Loeb	Inversion	Victor Sothcott	email	41529	41529	41536	
4.5-52	Update CERESlib for Edition4 delivery	994	Victor Sothcott	Inversion	Victor Sothcott		41652	41652	41695	
4.6-2	Update the MATCH daily file from Edition2 to Edition4 netCDF.	973	Dave Kratz	SOFA	Victor Sothcott	meeting			41695	
4.6-3	Update SORCE TSI data to combined SORCE-RMIB data.	973	Shashi Gupta	SOFA	Victor Sothcott	email	41646	41646	41695	
4.5-53	Update the ADM software and ancillary files from the Edition2/3 versions to Edition4.	973	Wenyng Su	Inversion	Victor Sothcott	meeting	41470	41470	41695	
4.5-54	Deliver to the AML-x86 system	973	Jonathan Gleason	Inversion	Victor Sothcott	meeting	41470	41470	41685	
4.5-55	Create preprocessor to generate Sea Ice Brightness Index for the Edition4 ADMs. This will be new PGE CER4.5-6.0P6	1001	Joe Corbett	Inversion	Victor Sothcott	meeting	41600	41600	41726	
4.5-56	Remove the SCOOOL output files	1009	Tina Rogerson	Inversion	Victor Sothcott	email	41541	41738	41753	
4.5-57	Updated productions scripts for PGEs 4.5-6.1P6 and CER4.5-6.1P7 to use the MATCH-daily and SORCE files from the ASDC archive.	1015	Victor Sothcott	Inversion	Victor Sothcott	meeting	41771	41771	41771	This SCCR was disapproved.
4.5-58	Change the memory requirement for running the jobs from 9GB to 7GB to allow for two jobs to run per processor.	1034	Walt Miller	Inversion	Victor Sothcott	email	41855	41856	41857	
4.5-59	Update the Sample Read Package to support Terra/Aqua Edition4A and NPP Edition1A	1039	Walt Miller	Inversion	Victor Sothcott	meeting	41897	41897	41906	
4.5-60	Update scripts to prevent PGE CER4.5-6.0P6 from running without input data present	1062	Vertley Hopson	Inversion	Victor Sothcott	meeting	42016	42037	42059	
4.5-61	Update NPP software to fix a bug that did not have the correct value for the colat and long at the surface in the SSFA output file.	1064	Walt Miller	Inversion	Victor Sothcott	meeting	42082	42086	42093	
4.5-62	Update NPP software to skip and fill any missing IES footprints when using the IES as input.	1064	Jonathan Gleason	Inversion	Victor Sothcott	meeting	41977	42086	42093	

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4.5-63	Change the memory requirement for running the jobs from 9GB to 7GB to allow for two jobs to run per processor for the NPP software.	1064	Victor Sothcott	Inversion	Victor Sothcott		42086	42086	42093	
4.5-64	Update SORCE TSI data to extend past 1/7/2011 for Beta2-Ed4 processing	1070	Vertley Hopson	Inversion	Victor Sothcott	telephone call	42107	42107	42108	