

**CERES Requirements Log - GGEO**

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
11-1	Modify GGEO Subsystem to add a half hour correction to Meteo-5 and Meteo-7 McIDAS data	591	Dave Doelling	GGEO	Raja Raju	Email and phone calls	06/23/05	06/23/05	07/06/05	Delivered to CM
11-2	Modify GGEO Subsystem to apply multiplication factor for 10-bit McIDAS data	591	Dave Doelling	GGEO	Raja Raju	Email and phone calls	07/12/05	07/12/05	08/01/05	Delivered to CM
11-3	NON-SCIENCE: Modify GGEO script(s) to select GGEO input files based on different naming schemes for non-Mcldas GEOS-12 data	591	Raja Raju	GGEO	Raja Raju	Emails and phone calls regarding change in external input file naming convention	07/26/05	07/26/05	07/30/05	Delivered to CM
11-4	Prepare delta delivery for GGEO Final Edition2A coefficients for 3/2003 through 12/2004	611	Dave Doelling	GGEO	Raja Raju	Team mtgs	01/09/06	01/09/06		Expecting coefficients the week of 8/29. Then a week of testing.
11-5	NON-SCIENCE: Prepare badrec input text files and deliver them along with coefficients to process PGE CER11.6P1 for GGEO for 03/2003 through 12/2004.	611	Raja Raju	GGEO	Raja Raju	Emails and phone calls.	01/09/06	01/09/06		
11-6	NON-SCIENCE: Modify PGE CER11.6P1 code to accept however many GRAN files exist to include in the GGEO met file. Prepare PGE delivery to CM.	618	Raja Raju	GGEO	Raja Raju	Email and phone calls	02/08/06	02/08/06	04/20/06	Delivered to CM.
11-7	Prepare delta delivery for GGEO Beta coefficients for all of 2005.	628	Dave Doelling	GGEO	Raja Raju	Emails and phone calls	01/31/06	01/31/06	05/30/06	Delivered to CM
11-8	Prepare delta delivery for PCF script to select 00, 18 hour MCIDAS METEO-5 satellite input files for processing. Update GGEO main processor Ascii generator scripts to add date string to coefficient file names. Update PGE 11.6P1 Ascii generator script to remove Processing strategy and CCode from the input file names.	630	Dave Doelling	GGEO	Raja Raju	Emails and phone calls.	06/09/06	06/09/06		Delivered to CM.
11-9	Prepare delivery for GGEO Edition2A final coefficients for up to December 2005		Dave Doelling	GGEO	Raja Raju	Emails				Delivery for Beta9 process and expected to be GGEO Edition2A final coefficients.
11-10	Prepare to send GGEO Edition2A final weeder files for up to October 2005		Raja Raju	GGEO	Raja Raju	Emails				
11-11	Modify GGEO software to process MTSAT data. MTSAT satellite will replace GOES-9 from November 2005.	636	Dave Doelling	GGEO	Raja Raju	Emails, phone calls and meetings	05/22/06	05/22/06		
11-1.12	To handle 10-bit calibration coefficients, the nominal resolution of most GEO satellites' visible counts.		Dave Doelling	GGEO	Raja Raju	Meetings	05/22/06	05/22/06		
11-1.13	Modify GGEO software to handle different image sizes of satellite input data. Currently software supports one set of image size/satellite.		Dave Doelling	GGEO	Raja Raju	Emails	06/15/06			
11-14	Modify GGEO main processor code to apply IR coefficient adjustments to MCIDAS format IR values.	636	Dave Doelling	GGEO	Raja Raju	Meeting, Emails	08/14/06	08/14/06		
11-15	Modify GGEO main processor code to correct multiplying factor error for METEO-8 satellite data.	636	Dave Doelling	GGEO	Raja Raju	Emails	08/14/06	08/14/06		

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11-16	Modify PCF generator script to select specific GOES-9 image for each synoptic hour to make it consistent with the adjacent satellites.	636	Dave Doelling	GGEO	Raja Raju	Meeting, Emails	08/14/06	08/14/06		
11-17	Temporarily disable PGEs CER11.1P5-8 from the production to avoid reprocessing 03/00 - 03/03 months with the latest version of coefficients.	636	Dave Doelling	GGEO	Raja Raju	Emails	09/26/06	09/26/06		
11-18	Run PGEs 11.2P2, 11.4P1, 11.6P1 using new TOOLKIT 5.2.12 version without recompiling the software. Jobs ran successfully with existing executables in new TOOLKIT environment.	636, 642	Dave Doelling	GGEO	Raja Raju	Phone calls	09/26/06	09/06/06		Recompiled PGE 11.4P1.
11-19	To support Edition2A GGEO processing for 11/2005 - 12/2005.	653	Dave Doelling	GGEO	Raja Raju	E-mail	05/01/07	05/01/07		
11-20	To support Beta 10 GGEO processing for months from 11/2005 - 07/2007.	653	Dave Doelling	GGEO	Raja Raju	E-mail	05/01/07	05/01/07		
11-21	To process G-11.MET9.MET7 satellite data. G-11 replaces G-10 from 06/06, MET-9 replaces MET-8 from 04/07; MET-7 replaces MET-5 from 01/07.	653	Dave Doelling	GGEO	Raja Raju	Email	05/01/07	05/01/07		
11-22	To process IR temperature calculations. Received updated coefficients to compute IR temperatures for day and night separately.	653	Dave Doelling	GGEO	Raja Raju	Email	05/01/07	05/01/07		
11-7.0	Initial delivery of new PGE CER11.7P1 to process and create ISCCP-D2like data product based on GEO.	675	Dave Doelling	GGEO	Raja Raju	E-mail	05/15/08	05/15/08	Completed	Delivered on July 10,2008
11-7.1	PGE CER11.7P1 will deliver in the new directory structure as defined by SEC. This is the first delivery of Release 5 GGEO Subsystem.	675	Dave Doelling	GGEO	Raja Raju	E-mail	05/15/08	05/15/08	Completed	Delivered on July 10, 2008
11-23	To process ISCCP-B1U format MTSAT data for months 11/2005 - 07/2007.	653	Dave Doelling	GGEO	Raja Raju	Email and phone calls	11/12/08	11/12/08	Completed	
11-24	To modify visible count to radiance conversion method for MTSAT. Visible radiance is calculated in relation to SZA.	653	Dave Doelling	GGEO	Raja Raju	Email and phone calls	02/13/09	02/13/09	Completed	
11-25	To handle 10-bit calibration coefficients. The coefficients are now for 10-bit data, the nominal resolution of most GEO satellites' visible counts.	653	Dave Doelling	GGEO	Raja Raju	Email and phone calls	12/31/08	12/31/08	Completed	
11-26	Implement GGEO software in the new directory structure. New directory structure was mandated by SEC.	653	Raja Raju	GGEO	Raja Raju	Email and phone calls	05/15/08	05/15/08	Completed	
11-27	Modify software to run on IBM linux cluster environment. SGI systems are replaced with IBM linux cluster.	653	Raja Raju	GGEO	Raja Raju	Email and phone calls	05/15/08	05/15/08	Completed	
11-28	To process G-13 satellite	653	Dave Doelling	GGEO	Raja Raju	Emails and phone calls	07/02/09	07/02/09		No inputs available until August to test.
11-7.2	Modified software to generate ISCCP-D2like-GEO product in the same format as ISCCP-D2likeDay/Nit products.	736	Dave Doelling	GGEO	Raja Raju	Email and phone calls	10/22/09	10/22/09		
11-29	Initial delivery of PGE 11.6P1 to process on magneto P4	757	Raja Raju	GGEO	Raja Raju	N/A	05/18/10	05/18/10	Completed	Delivered on April 2010
11-30	Delta delivery to modify CER11.1P10 Ascii input generator to evaluate and include overlap images independent of number of jobs/satellite.	785	Raja Raju	GGEO	Raja Raju	N/A	05/18/10	05/18/10	Completed	Delivered on May 2010 as part of SCCR 653.

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11-31	Modifications to CER11.1P10 software to process MTS2 satellite which took over much of November 2009 due to problem with MTS1 satellite.	787	Dave Doelling	GGEO	Raja Raju	Email and phone calls	02/26/10	02/26/10	Completed	
11-32	Updates to PGE CER11.2P2 software to reduce the data gap between satellites for months where GOES-13 satellite data is processed.	787	Dave Doelling	GGEO	Raja Raju	Phone calls	04/12/10	04/12/10	Completed	
11-33	Updates to PGE CER11.1P1 PCF scripts to process MTS2 data..	787	Raja Raju	GGEO	Raja Raju	N/A	N/A	N/A	Completed	
11-7.3	Modified code to compute Optical Depth correctly in Edition2 ISCCP-D2like-GEO product.	799	Dave Doelling	GGEO	Raja Raju	Email and phone calls	07/23/10	07/23/10	Completed	Delivered to CM.
11.6-30,31	Ascii input files for PGE 11.6P1 to process from 03/2000 - 02/2010 on magneto P4	818	Raja Raju	GGEO	Raja Raju	N/A	N/A	N/A	Completed	Delivered to CM
11.6-32	Request to promote GenTisaGgeo executable. The web plot software for PGE CER11.2P2 (GenTisaGgeo) was recompiled with TK5.2.16 under SCCR 787. At this time, no software associated with SCCR 787 should be promoted to production except the web plot software executable. This is needed to run PGE 11.6P1 (SCCR 757) using the ancillary data files delivered under SCCR 818.	819	Raja Raju	GGEO	Raja Raju	N/A	N/A	N/A	Completed	
11.6-30,31	Ascii input files for PGE 11.6P1 to process from 03/2000 - 02/2010 on magneto P4	849	Raja Raju	GGEO	Raja Raju	N/A	N/A	N/A	Completed	Delivered to CM.
11.6-33	Ascii input files for PGE 11.6P1 to process 03/2010 - 12/2010 GGEO files through CER11.6 on magneto P4.	853	Dave Doelling	GGEO	Raja Raju	Meetings	06/30/11	06/30/11	Completed	Delivered to CM.
11.6-34	Ascii input files for PGE 11.6P1 to process 01/2011 - 12/2011 GGEO files through CER11.6 on magneto P4.	903	Dave Doelling	GGEO	Raja Raju	email	05/29/12	05/29/12	05/31/12	Delivered to CM
11-34	PGEs CER11.1P10, CER11.2P2 software and coefficient files delivery to store in SCF Production Code Repository on AMI (/SCF2/CERES/ceres_cm/SCF_ProductionCoderepository). This software and coefficients were used to produce 01/2011 - 12/2011 GGEO files at SCF and archived at the ASDC.	905	Dave Doelling	GGEO	Raja Raju	email	05/29/12	05/29/12	06/01/12	Delivered to CM
11-7.4	Port PGE CER11.7P1 from Magneto (p4) to AMI (p6) to continue Edition2 ISCCP-D2like-GEO process. Magneto being decommissioned.	916	Jonathan Gleason	GGEO	Raja Raju	meeting	07/12/12	07/12/12		
11-35	PGEs CER11.1P10 and CER11.2P2 software and coefficient files delivery to store in SCF Production Code Repository on AMI (/SCF2/CERES/ceres_cm/SCF_ProductionCoderepository). This software and coefficients were used to produce 01/2012 - 10/2012 GGEO files at SCF and archived at the ASDC.	968	Dave Doelling	GGEO	Raja Raju	email	04/18/13	04/18/13	04/29/13	Delivered to CM
11-7-2.1	New PGE CER11.7P2 to support Edition4 version of ISCCP process to provide GEO inputs to PGE CER9.0P7. Major changes to the code include using 5-channel 1-Hour GEO pixel data and GGEO composite 1-Hour gridded data as inputs, implementing different algorithms to handle GEO pixel data and the gridded data and creating intermediate zonal files for PGE CER9.0P7 process.	1049	Dave Doelling	GGEO	Raja Raju	email, meetings	11/25/14	11/25/14	on going	
11-7-2.2	New PCF scripts to stage all images files.	1049	Raja Raju	GGEO	Raja Raju	N/A	N/A	N/A	on going	
11-36	Edition4 data access routines to read Edition4 GGEO files.	1056	Raja Raju	GGEO	Raja Raju	N/A	N/A	N/A	complete	