

February 25, 2009 – NPP FM5 Reports

CERES RDR Processing

- The NPP FM-5 preprocessor (PGE-CER1.0P2) was delivered to Configuration Management (CM) on schedule, Feb. 20, 2009. The code was also tested against newly arrived CERES-RDRs for Jan. 25, 2003 (courtesy of Jim Closs) with no issues. Any problems found by CM or ASDC will be resolved this week. Work begins on converting PGE CER1.3P1, a BDS sub-setter, from ADA to C++. (Alford)

VIIRS Radiance/Geolocation Subsets

- Completed VIIRS Subsample Processor Package. Delivered the processor to SDS Land PEATE. (Chen, Ayers, Sun-Mack)
- Finalized the NPP VIIRS Sub-Sampled Processor Test Plan. (Sun-Mack, Yan, Ayers, Miller, Robbins, and Saunders)

Toolkit Issues

- No report received.

Telecon/eRoom/Meeting

- Attended the bi-weekly SDS telecon February 11. Reported on ERB CARS requirements status, SDS Ops. Concept status, Land PEATE ICD, VIIRS sub-sampler code delivery, and FM-6 start-up. ICTs and EEOs moving to right due to launch slip. (Closs)
- Attended the biweekly DFWG telecon February 17. Highlights include CDFCB-X and MDFCB status, an overview of NPP sizing estimates based on simulated throughput, and updates to ATBDs and algorithm ECRs. (Closs)
- Attended a Mini-IDPS build status telecon February 12. Learned that CERES RDRs are now available on the Mini (requested and received). (Closs)
- IICDO telecon February 17 was cancelled. Planned to attend the weekly IICDO telecon February 24. (Closs)

System Engineering/Management Topics

- Made substantial changes to the ERB CARS sections of the SDS Operations Concept document. Currently under internal review. (Closs)
- Organizing an interactive review of the ERB CARS section of the SDS Design Document. (Closs)
- Incorporated comments from ASDC review of the ERB CARS Science Requirements document. Working on rationale for all ERB CARS level 4 requirements. (Closs)
- Drafted an update to The CERES Science and Data Products Working Agreement to obtain RDRs though SD3E FTP for Quicklook. (Miller)

- The VIIRS Sub-sample Processor and Test Plan were delivered to GSFC. (Ayers, Saunders)
- Several figures were modified and provided to Jim Closs for inclusion in the SDS Operations Concept document. (Ayers, Saunders)
- Testing the Instrument delivery (SCCR 698) on *magneto-P4*. (Ayers)
- Updated the Instrument Test Plan and Operator's Manual for SCCR 698. Provided the Test Plan to CM for testing. Plan to provide the Operator's Manual to the ASDC and post it on the Web on Tuesday. (Saunders)

Upcoming Meetings

- No report received.

Upcoming Events

Event/Sub-events	Description	Schedule	Ref No
Early NCT3 - Ground EEO	Scheduled due to slip in NCT3 schedule	09/16/2009 – 10/05/2009	8
Flight Thread Tests	FTTs are used to verify functional requirements contained in the Mission Requirements Specification.		
<ul style="list-style-type: none"> • FTT 8 	This test will verify the ingest and validation of selected IDPS (NESDIS) generated RDRs and xDRS (TDRs, EDRs, and SDRs) from ADS in SDS.	07/30/2009 - 08/05/2009	5
Interface Confidence Tests	The ICTs will be discussed at the Test Data Summit, Dec 9-10 at Goddard.		
<ul style="list-style-type: none"> • ICT 2 	SDS <-> IDPS – Schweiss requests at least dial in for kick off discussion during the Test Data Summit, Dec 9-10.	06/30/2009 - 07/14/2009	5
<ul style="list-style-type: none"> • ICT 4 	ADS/CLASS <-> SDS	06/16/2009 - 06/29/2009	5
<ul style="list-style-type: none"> • ICT 23 	SDS <-> NSIPS	05/05/2009 - 05/18/2009	5
<ul style="list-style-type: none"> • ICT 24 	SDS <-> LaRC (ASDC)	05/26/2009 - 06/08/2009	5
Mission Rehearsal Tests			
<ul style="list-style-type: none"> • MRT3 	Sensor activation and checkout: Sensor activation, Sensor deployments, Mission data handling, & Cal/Val.	Launch - 7 months (06/16/2010 – 06/22/2010)	8
<ul style="list-style-type: none"> • MRT4 	Combination of Mission Rehearsal #2 and Mission Rehearsal #3.	Launch - 4 months (09/16/2010 – 09/22/2010)	8
<ul style="list-style-type: none"> • MRT4A 	Dress Rehearsal	Launch - 1/2 weeks (01/04/2011 – 01/10/2011)	8
NPP Compatibility Tests	The NCTs exercise flight and ground interaction. Each NCT is comprised of functional thread and interface tests that provide a continuing higher degree of confidence leading up to operational readiness.		
<ul style="list-style-type: none"> • NCT3 	This test exercises the flow of data from the satellite through C3S, IDPS, SDS, and to the ADS with the appropriate products being generated at each stage. (This test was previously scheduled to begin on 06/10/2008 and to last for 5 days. The slippage of that schedule led to the “Early NCT3-Ground EEO.”)	02/01/2010 – 02/08/2010	8

Upcoming Events

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<ul style="list-style-type: none"> • NCT4 	<p>This test exercises mission configuration, 3 days in the mission life with all elements of ground segment. This is the final test opportunity with the satellite before shipment to launch facility. (Ref. #1 shows the test duration as 10 days which is apparently an error.)</p>	07/23/2010 – 07/30/2010	8
<p>Operations Readiness Test (ORT)</p>	<p>Verify that the ground system and operations personnel are ready to support the mission.</p>	10/18/2010 – 10/22/2010	8
<p>SDS Function Tests</p>	<p>From the "SDS System Test Schedule" - more info/details to follow.</p>		
<ul style="list-style-type: none"> • Land to CERES 		05/05/2009 - 05/07/2009	6
<ul style="list-style-type: none"> • CERES to CLASS/ADS 		05/05/2009 - 05/07/2009	6
<ul style="list-style-type: none"> • CERES to CasaNOSA 		05/05/2009 - 05/07/2009	6
<ul style="list-style-type: none"> • CERES to Science Team 		05/05/2009 - 05/07/2009	6
<ul style="list-style-type: none"> • CERES to C3S (WRS) 		05/05/2009 - 05/07/2009	6
<p>NPP Mission Freeze Date</p>	<p>The purpose of this date is to lock-down the mission configuration before launch. The mission freeze date generally applies to major hardware/software items within the ground system and mission operations area such as ground software and hardware. A comprehensive list of items that apply to the launch freeze will be generated by the MOWG.</p>	Launch - 2 months	
<ul style="list-style-type: none"> • NPP Launch 		01/16/2011	8

Upcoming Events

Event/Sub-events	Description	Schedule	Ref No
References:	<ol style="list-style-type: none"> 1. SI&T Plan (GSFC 429-03-02-07) 2. NPP Mission Operations Management Plan (GSFC 429-04-02-29) 3. Mission Rehearsal Test Plan (GSFC 429-04-02-31) 4. CERES FM5 on NPP schedule as of 09/30/2008 5. NPP_SDS_Schedule_Dec_18_2008.mpp.pdf ... from Mary Hunter's "Thu 12/18/2008 1:40 PM" email (RE: NPP SDS Schedule). 6. SDS Functional 2-schedule 12.12.08.xls ... from Vic Buczkowski's "Fri 12/19/2008 10:42 AM" email ([NPP-SDS] SDS Progress-Score Card & Test Schedule). 7. C3S Cartoon - Replan Jan – Sept 09. The filename in eRooms is "C3S Cartoon Schedule Replan FY09 r3.ppt" which may be found at https://collab2.st.northropgrumman.com/eRoom/npoess/CommandControlCommunication/0_29b25d. 8. NPP Schedule – Mission Drivers (NPP Schedule to Launch_012209.mpp via NPP Mission Drivers Schedule_012209_4pg-r1-1.pdf) 		