

January 28, 2009 – NPP FM5 Reports

CERES RDR Processing

- No report.

VIIRS Radiance/Geolocation Subsets

- No report.

Toolkit Issues

- No report.

Telecon/eRoom/Meeting

- Attended the NPP SDS bi-weekly telecon Jan. 21. (Closs)
- DFWG telecon for Jan. 20 was cancelled. (Closs)
- IICDO telecon Jan. 20 was cancelled. (Closs)

System Engineering/Management Topics

- Drafted a Requirements Traceability Matrix for ERB CARS science requirements, and investigated functional test cases for verification. (Closs)
- Reviewed and edited the DS Operations Concept for ERB CARS, and distributed for internal review. (Closs)
- Versions 0.6 and 0.7 of the CERES Science Requirements Specification were finalized and provided to the author. (Ayers, Saunders)

Upcoming Meetings

- No report.

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	7
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	
<ul style="list-style-type: none"> • MRT4 	Combination of Mission Rehearsal #2 and Mission Rehearsal #3.	Launch - 4 months	
<ul style="list-style-type: none"> • MRT4A 	Dress Rehearsal	Launch - 1/2 weeks	
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.”)	11/24/2009 – 12/11/2009	5
<ul style="list-style-type: none"> • NCT4 	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.)	12/02/2009 - 12/08/2009	4 & 5

Upcoming Events

Event/Sub-events	Description	Schedule	Ref No
Operations Readiness Test (ORT)	Verify that the ground system and operations personnel are ready to support the mission.	02/25/2010 - 03/03/2010 (5 days) <i>("CERES FM5 on NPP" schedule as of 09/30/2008)</i> 3-day end-to-end test ...prior to the Mission Readiness Review (MRR) <i>(Mission Operation Management Plan.pdf)</i>	
SDS Function Tests	From the "SDS System Test Schedule" - more info/details to follow.		
<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
NPP Mission Freeze Date	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.	Launch - 2 months	

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. 		