

January 14, 2009 – NPP FM5 Reports

CERES RDR Processing

- The current NPP RDR preprocessor was tested against packaged proxy data which arrived on Dec. 22, 2008 and was sent by Gary Route from IDPS. It was found that an index provided in the RDR and used for accessing the fill percentage of each AP was not set according to the RDR documentation. However, a suitable work around has been implemented for this issue. More description will be forthcoming. (Alford)

VIIRS Radiance/Geolocation Subsets

- No report.

Toolkit Issues

- No report.

Telecon/eRoom/Meeting

- Attended the NPP SDS bi-weekly telecon Jan. 7. (Closs)
- Attended the DFWG bi-weekly telecon Jan. 6. (Closs)
- Attended IPO/NPP CCB telecon Jan. 12. (Closs)

System Engineering/Management Topics

- Refined the SDS ERB CARS requirements document, and distributed to the ASDC in preparation for a review the week of January 19. (Closs)
- The CERES Science Requirements Specification V0.5 was finalized and provided to the author to distribute for a peer review. (Ayers, Saunders)

Upcoming Meetings

- No report.

Upcoming Events

Event/Sub-events	Description	Schedule
Early NCT3 - Ground EEO	Scheduled due to slip in NCT3 schedule	07/30/2009 - 08/05/2009
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
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
<ul style="list-style-type: none"> • ICT 4 	ADS/CLASS <-> SDS	06/16/2009 - 06/29/2009
<ul style="list-style-type: none"> • ICT 23 	SDS <-> NSIPS	05/05/2009 - 05/18/2009
<ul style="list-style-type: none"> • ICT 24 	SDS <-> LaRC (ASDC)	05/26/2009 - 06/08/2009
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.")	09/30/2009 - 10/06/2009
<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

Upcoming Events

Event/Sub-events	Description	Schedule
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) ("CERES FM5 on NPP" schedule as of 09/30/2008) 3-day end-to-end test ...prior to the Mission Readiness Review (MRR) (Mission Operation Management Plan.pdf)
SDS Function Tests	From the "SDS System Test Schedule" - more info/details to follow.	
• Land to CERES		05/05/2009 - 05/07/2009
• CERES to CLASS/ADS		05/05/2009 - 05/07/2009
• CERES to CasaNOSA		05/05/2009 - 05/07/2009
• CERES to Science Team		05/05/2009 - 05/07/2009
• CERES to C3S (WRS)		05/05/2009 - 05/07/2009
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
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). 	