

December 17, 2008 – 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 Dec 3. (Closs)
- Attended the DFWG bi-weekly telecon Dec. 9. (Closs)
- Attended the IICDO telecon Dec. 2 and 9. (Closs)
- Attended the NPP Test data Summit Dec. 10-11. (Closs)

System Engineering/Management Topics

- Postponed the third SDS ERB CARS requirements review due to conflicts with key staff member's availability. Incorporated all comments from reviewers into version 0.4 of the document. (Closs)
- Distributed revision E of CDFCB-C volumes 1 and 6 for review, which contain previously reviewed CERES telemetry and solar pointing angles. All information was found to be accurate. (Closs)
- Reviewed ECR 736 on revision D of CDFCB-X volume VI, which is a consolidation of all ECRs against this document. Was missing ECR 844 (CERES updates)...since revised and accepted. (Closs)
- Distributed revision 4 of the MDFCB, which contains an additional Data Type field for CERES packet data tables. Confirmed correct Data Types with NPP Instrument Manager John Staren. (Closs)
- The CERES Requirements Specification V0.3 was finalized and provided to the author to distribute for a peer review. A preliminary version of V0.4 was also provided for the author to incorporate additional modifications. (Ayers, Saunders)

Upcoming Meetings

- No report.

Upcoming Events

Event/Sub-events	Description	Schedule
Early NCT3 - Ground EEO	Scheduled due to slip in NCT3 schedule	June - July 2009
Flight Thread Tests <ul style="list-style-type: none"> • FTT 8 	FTTs are used to verify functional requirements contained in the Mission Requirements Specification. This test will verify the ingest and validation of selected IDPS (NESDIS) generated RDRs and xDRS (TDRs, EDRs, and SDRs) from ADS in SDS.	Duration 1 to 2 Days (not including preparation and dry-runs) ~3rd quarter, 2009 Prior to NCT 3
Interface Confidence Tests <ul style="list-style-type: none"> • ICT 2 • ICT 4 • ICT 23 • ICT 24 	The ICTs will be discussed at the Test Data Summit, Dec 9-10 at Goddard. SDS <-> IDPS – Schweiss requests at least dial in for kick off discussion during the Test Data Summit, Dec 9-10. ADS/CLASS <-> SDS SDS <-> NSIPS SDS <-> LaRC (ASDC)	08/04/2009 08/04/2009 11/17/2009 - 12/01/2009 (11 days)
Mission Rehearsal Tests <ul style="list-style-type: none"> • MRT3 • MRT4 • MRT4A 	Sensor activation and checkout: Sensor activation, Sensor deployments, Mission data handling, & Cal/Val. Combination of Mission Rehearsal #2 and Mission Rehearsal #3. Dress Rehearsal	Launch - 7 months Launch - 4 months Launch - 1/2 weeks
NPP Compatibility Tests <ul style="list-style-type: none"> • NCT3 	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. 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.	Previous Schedule 06/10/2008 (5 days), but expected to slip – see "Early NCT3 - Ground EEO".

Upcoming Events

Event/Sub-events	Description	Schedule
<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.</p>	<p style="text-align: center;">12/02/2008 (5 days) - ? <i>("CERES FM5 on NPP" schedule as of 09/30/2008)</i> Test duration is 10 days - ? <i>(NPP_SIT_PLAN_090508.pdf)</i></p>
<p>Operations Readiness Test (ORT)</p>	<p>Verify that the ground system and operations personnel are ready to support the mission.</p>	<p style="text-align: center;">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></p>
<p>SDS Function Tests</p> <ul style="list-style-type: none"> • Land to CERES • CERES to CLASS/ADS • CERES to CasaNOSA • CERES to Science Team • CERES to C3S (WRS) 	<p>From the "SDS System Test Schedule" - more info/details to follow.</p>	<p style="text-align: center;">05/05/2009 - 05/07/2009 05/05/2009 - 05/07/2009 05/05/2009 - 05/07/2009 05/05/2009 - 05/07/2009 05/05/2009 - 05/07/2009</p>
<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>	<p style="text-align: center;">Launch - 2 months</p>
<p>References:</p>	<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 	