

## **April 23, 2008 – NPP FM5 Reports**

### **CERES RDR Processing**

- Began working on the Level-0, ephemeris and attitude preprocessor. Currently able to read and evaluate Level-0 data packets that are contained within the CERES NPP RDR. Still waiting to determine the exact format of the HDF5 RDR wrapper and the contents and format of the ephemeris and attitude data within the RDR. (Alford)
- Began working on the conversion of PGE CER1.1P1-6 to C++. The initial effort will be to convert the common library classes. (Alford, Cooper)
- Began working on creating a C-version of the CERESlib metadata read/write routines. This will facilitate the usage of these routines from both C++ and Ada. (Nasser)
- A Document Change Order (DCO) was issued to add CERES RDRs for NPP. This includes Science, Diagnostic, and Telemetry RDRs in HDF5 format. These RDRs are described in full in section 2.0 of the Raw Data Records HDF5 Details document. (Closs)
- A second DCO was issued to clarify the baseline for the Common RDR Format in the CDFCB-X. The common RDR structure is used to envelope Application Packets to create and RDR granule. Changes were only made to the text describing the RDR Static Header, the RDR APID List, and the RDR Packet Tracker. (Closs)
- An update has been made to the NPP Mission Requirements Specification to include CERES level 2 requirements. I distributed these during the Apr. 22 SSAI FM5 meeting. We can use these as a foundation for generating our level 3 requirements. Please review and provide feedback on how we can address this. (Closs)

### **VIIRS Radiance/Geolocation Subsets**

- Came up with Clouds proposal on VIIRS subsetting. Wrote a ppt for the proposal. Had a meeting with CERES science members to look over all details. Wrote a final agreed VIIRS subsetting channels and samplings, and sent out to the science members. (Chen, Sun-Mack)

### **VIIRS Aerosol Reader**

- No report received.

### **System Engineering/Management Topics**

- Prepared for and attended VIIRS subset meeting. (Miller)
- Updated Science Working Agreement. (Miller)
- Testing Jim Donaldson's ERBELike converted code on MANILA with Toolkit 5.2.15. (Walikainen)
- Reviewing the NPP Configuration Management Procedure and NPP Integrated Independent Review Plan once I find them on eRooms. (Ayers)