

## MINUTES FROM THE NPP PROJECT SCIENCE MEETING

**December 1, 2003**

Present: Bob Murphy, Jeff Privette, Bruce Guenther, Pete Kealy, Forrest Hall, Chuck McClain, Wayne Esaias, Ralph Welsh, Louis Kouvaris, Ernie Hilsenrath, Forrest Hall, Jeff Lubelczyk, John Qu, Joseph Lyu, Alex Lyapustin, Hassan Ouaidrari, Seth Hoffman, Mohan Nirala, Patric Coronado, Natasha Vozza

### Action Items Carried Forward:

**92.** John Qu to send Jeff Privette information on MATLAB licensing

**Status: Closed**

**93.** The **rapporteurs** were asked to coordinate their summaries with the session chairs and submit final version by **December 1, 2003**.

**Status: Closed**

### New Action Items:

**94.** Ernie Hilsenrath to send a list with 15 concerns about OMPS Calibration program to Bob.

## MEETING DISCUSSIONS

### 1) General remarks: Bob Murphy:

- Conference Committee report specifies that SDS will be built at NASA Goddard to:
  - Process and archive L1B data.
  - Deliver it to a minimum of 5 CARS.
  - Archive L2+ data from CARS.
- The report specifies 8.5M\$ for 2004 and requires NASA to submit a plan and budget request to complete the job.
- Bob is waiting negotiation instructions from HQ on the science team budget
- Mission Confirmation Review went well.
  - Project Commitment Agreement (PCA) was signed.
  - No special issues were raised.
  - There was some discussion on orbital debris.
  - No attention was given to SDS. There was some discussion about ADS.
  - Bob and Jim Dodge from HQ are working on mission success criteria.
- MCDR RFA's have been formally delivered to the project.
- Darlene Durian resigned from Boeing. (She was the selecting official for VIIRS, CrIS & OMPS, as well as CMIS.)
- Pete is working on a List of Critical Documents. He will send it out later this week.
- NPP Xmas party is on Tuesday, December 16 in Crofton.

### 2) Science Team Meeting:

- The rapporteurs and session chairs have completed the summaries of their sessions.

### 3) Cal/Val: Bruce Guenther:

- The first of sensor specific L1 telecons was held on Dec 1. These telecons are organized by the PSG to support the Science Team's interaction with the NPP project. This session dealt with CrIS and had good participation by the Science Team
- OMPS L1 telecon is scheduled for December 2.
- VIIRS telecon is scheduled for December 8, at noon.
- ATMS telecon will be held by the end of the month.

- The first of the NGST-organized sensor specific Cal/Val meetings was held last week in Santa Barbara. Team members Tom Pagano and Robert Wolfe participated in the meeting, as did Bruce.
  - It went OK.
  - Bruce is concerned about the lack of depth of understanding by NGST as to what is required to calibrate a sensor as complex as VIIRS.
  - There was active discussion of 3 alternative versions of the calibration equation and its relationship to testing. Bruce presented the NASA version, Frank DeLuccia the Aerospace version and Ed Hess the NGST version.
  - Eric Johnston of SBRS will organize a follow-on TIM.
  - NGST looked at the Gap Analysis document. The Executive Board Committee will look at it now and see what was dropped.
- The second sensor specific Cal/Val meeting (for OMPS) was described by Ernie Hilsenrath. Bruce was also at the meeting.
  - It went reasonably well.
  - He is very concerned about the schedule. It is very ambitious.
  - There were some important tests, such as direct sky view tests, that were not in the baseline. Adding this back in requires going all the way back to the NGST top management as it would be viewed as “new work”.
  - They identified 15 specific concerns
  - Calibration plan includes the calibration schedule, but it was not available at the meeting.
  - Due to problems with the EDU, there will be no more testing until they test the FM1.
  - Test Readiness Review for OMPS is scheduled in January.

#### **4) Algorithms:** Pete Kealy

- Pete provided some additional comments on the VIIRS Cal/Val meetings last week. He is concerned that it will be very difficult to get the testing needed for the algorithms to work properly. The bar has been set very high. The method of setting priorities by STE needs to be revamped. Bruce will talk to the IPO Cal/Val lead, Karen St Germain, about this.
- CrIS Cal/Val and Test Readiness Review is next week at ITT.
- IDPS face-to-face meeting is in Landover later this week. Pete will send the agenda to Bob.
- IBR (Integrated Baseline Review) is scheduled for next week. This is where dropped work should begin to appear.
- Precipitable water, which was an EDR from Raytheon, is now regarded as an intermediate product to feed SST. He doubts if it will be of much use, and that predicted water vapour fields would probably be used instead. Alex Lyapustin and Jeff Privette concurred. He will refer this to Peter Minnett to get his opinion.
- The ACCB (Algorithm Configuration Control Board) meets on this product next week.

#### **5) CrIS:** Ralph Welsh (CrIS IM)

- CrIS is coming along pretty well at this time.
- EDU 3 is being built. Testing is scheduled for February-March

#### **6) Direct Broadcast:** Patric Coronado

- There were 2 opportunities to tell the world about NPP:
  - International Broadcast Conference. He introduced NPP to this group. There was a lot of interest, especially from the Australian group.
  - Direct Read Out User Forum – This was a closed meeting for the DoD and NOAA communities. This group expressed concern over the likely lack of insight into the source code for the algorithms.
  - Patrick’s plans include providing L1 algorithms to the broader community and some tools to help users read the data.

**7) The next PSG meeting is scheduled for December 15, 2003.**