

MINUTES FROM THE NPP PROJECT SCIENCE MEETING

March 29, 2004

Present: Bob Murphy, Jeff Privette, Bruce Guenther, Louis Kouvaris, Wayne Esaias, Jim Shiue, Bob Barnes, Ron Vogel, Robert Woodward, Jack Xiong, Jeff Lubelczyk, John Qu, Joseph Lyu, Hassan Ouaidrari, Patric Coronado, Mingji Su, Sam Gasster (via telecon), Natasha Vozza

Action Items Carried Forward:

97. **Hassan Ouaidrari** to prepare statement with links to different versions of Cal/Val documents with explanations.
STATUS: PENDING
98. **Pete Kealy** to prepare a list of general documents
STATUS: PENDING
99. **Wayne Esaias** to get together with Ocean Color and Atmospheric Correction part of the Science team and assess the impact of using the VIS/NIR ROIC “as is”.
STATUS: Closed

New Action Items

100. **John Qu** to secure agreement from NGST to use the VIIRS simulation software on NPP1.

MEETING DISCUSSIONS

1) General remarks: Bob Murphy:

- The POP reviews for the ST part of the budget is complete
- The guidelines did not include any allowance for inflation. Bob requested this as an “overguide”.
- There is no agreement yet on how to proceed with the SDS for 2004 and 2005.
- Plans for SDS remain uncertain for 2004 and 2005.
- Project is re-doing the web page. Mingji Su will port the existing science material to the new page. You can preview the new set up at <http://eos.gsfc.gov/npp/>

2) Algorithm Status: Bob Murphy (for Pete Kealy)

- Pete briefed the IPO system engineering IPT on the tasks and manpower needed to convert sensor characterization data into LUT's for the SDR algorithm. He based this on input from the PSG and ST on past NASA experience (e.g. MODIS, AIRS) as well as his at ESA (ATSR, MERIS).
- Bruce was skeptical about the impact of this briefing, but Bob believed that progress was made.
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3) Cal/Val: Bruce Guenther

- There was a series of meetings at IPO to plan for post launch Cal/Val activities for NPP sensors: OMPS – SDR & EDR, VIIRS – SDR, CrIS – SDR and ATMS - SDR.
- Bruce is working with Karen St. Germain to get the planning to be based on the Performance Verification Plans (PVP).

4) NPP1: Jeff Privette

- Ron, Bob W, Hassan, Pete and Jeff met last week to discuss the web pages being established for use by the ST (in contrast to the public web page that Bob discussed earlier).
- Most of the pages are laid out; the design will be similar to that of the project web pages. It will be released to the ST in a week or two.
- The page itself is not password protected, but it gives links to other pages that can require a password (like eRooms).
- Bob Woodward has the first level of proxy level generation software. NGST has funded John Qu to develop software to simulate VIIRS using AIRS data. With NGST's permission, this will be incorporated into the NPP1 tool kit.
- Bruce said that MODIS and VIIRS bands can differ and the community should be notified of possible inaccuracies in physics.

5) VIIRS: Bruce Guenther

- There is an agreement to rebuild a VIS/NIR ROIC. This alleviates an earlier concern that they might use the current ROICs that have cross-talk
- Sam has been asked by the IPO to assess the impact of cross-talk on NDVI and OC. He asked for background information on MODIS NDVI and Ocean Color performances. He is going to call Wayne directly and discuss it with him.

6) CrIS: Sam Gasster, Louis Kouvaris

- There was a joint ATMS/CrIS telecon to discuss ATMS resampling issue.
- The participants in the telecon were in favor of resampling, however, they do not want channels 1&2 to have resolution enhancement.
- Sam will send minutes from the meeting to the ST and draft a position paper for the ST's consideration.
- The ST wants to know about authorship and distribution of such reports. Bob said that the report should be the work of the ST, but that the PSG needs to present it to the IPO per our agreement with them. This does not prevent the ST members who are also on the SOAT from raising it there if they wish.
- Apparently the emissivity of the Internal Calibration Target (ICT) is only 0.98 to 0.985. This is much lower than that of the MODIS blackbody target (0.992). Further, there are only 2 thermistors on the ICT. This will be the topic of the next L1 telecon.

7) ATMS: Jim Shiue, Joseph Lyu

- Joseph received the antenna data. There is no data on the G-band.
- Jim and Dave Staelin have had some discussion on how to better test the ATMS antenna pattern. Sergey is willing to consider it, but only after the EDU testing is done in September. Dave was going to talk to the IPO about funding, but Bob

cautioned that the NPP agreement calls for no exchange of funds between the IPO and NASA. ATMS is a NASA responsibility.

8) OMPS: John Qu

- Installation of the limb window filter has been delayed
- The average power requirement was increased to 90 W. Peak power remains unchanged.
- Flight unit will be delivered in June of 2005
- EDU will be delivered in February 2005

9) The next PSG is scheduled for Monday, April 12.