

February 5, 2003

MODIS sensor Working Group (MsWG) Summary

Attendance: Stuart Biggar, Vincent Chiang, Wayne Esaias, Bob Evans, Gerhard Meister, Chris Moeller, Vince Salomonson, Junqiang Sun, Gary Toller, Jack Xiong, Zhengming Wan, Joe Esposito

Scheduled Items

Item 1 Instrument Status

Terra SFE anomaly

JX) Anomaly occurred at 01:47 on February 1 (2003032.0147). Science data was not available during the times 2003032.014728 through 2003032.232643. Flight operations were able to restart science mode during the same day at 2003032.232643. The m1 two-day contiguous granule data was lost for this day (all granules for calibration data from day 2003030.1230 through 2003032.0040 was measured). The m1 calibration data obtained on days 2003030 and 2003031 will be analyzed before deciding to repeat the 2-day calibration.

WE) There are 16-17 orbits of data? (yes)

Terra DSM plan

JX) The Deep Space Maneuver has finally been reviewed and signed off on: DSM - March 26, 2003, data will be checked before planning second DSM (19 days after the first ~ April 14, 2003) with the Moon in the FOV. Simultaneous Lunar views are planned by SeaWifs. A third DSM is planned as a contingency for the first or second DSM.

Full testing plan and test schedule are available (*MCST Action: send testing plan and schedule to Wayne*).

WE) Need a person from SeaWifs to be involved in planning of second DSM.

JX) The DSM will include thermal (PC band) change of CRPA.

Aqua SRCA

JX) Lamp configuration vs. SRCA trending (current vs. time)

There are small variations in the 20W-30W lamps=> one of the three 10W lamps may not be working well.

JX and RD are looking at data. SRCA may have a lamp that is acting poorly.

SB) Is there a voltage housekeeping reading. It looks like a control issue rather than a lamp issue. Sigma for day 315 shows this. Run SRCA in constant current mode and look at the trace of the voltage. Different operational mode will perform differently. Taken together the result may imply a control problem rather than a lamp problem.

JX) RD will look at pre-launch to see what should be expected. (*MCST Action: Is there a constant current mode and voltage housekeeping readout*)

Item 2 MCST old and new issues

SD/SDSM

JX) Terra Yaw maneuvers data is now available at MCST. Yaw slew angle vs. response will be completed in a few weeks.

Moon

JX) Need to discuss with SeaWifs group (DSM)

SWIR leak

JX) CM to get best sending band for SWIR.

MODIS Science Team Meeting Input

VS) The STM schedule is: Data Products review followed by NRA response put together by Wayne Esaias, Chris Justice and Michael King.

JX) A SWMIR crosstalk package will also be provided.

Around the Table

Participant: Wayne Esaias – Ocean workshop held in New Hampshire. Striping was a key issue at the meeting.

JX) If current tables are not changed then should we add to the delivered LUTs?

WE) It is important to keep the process constant, therefore deliver Terra LUTs every two weeks.

JX) Aqua is currently done monthly. Bob Evans to send charts with new RVS (issue from last time).

Participant: Chris Moeller – Aqua Day 277 Blackbody warm up/cool down (B33-36). Have not seen any issues. Surrogate calibration working well. We (CM and VC) should look at scenes with a coastline in it. Will be in D.C. during the second half of March.

Participant: Bob Evans – The new and improved process is magnitudes better. It handles the forward process much better.

Participant: Zhengming Wan – Looked at field campaign data B22, 23, 29, 31, and 32. Results are very good for Aqua (~0.2°K) but Terra has a larger error.

CM) Do you look at other bands?

ZW) Not reliably (positive bias in B35 and negative bias in B36).

Next MsWG Meeting February 19, 2003