

**Attendance:** Vincent Chiang, Gene Eplee, Gerhard Meister, Chris Moeller, Junqiang Sun, Gary Toller, Zhengming Wan, Robert Wolfe, Aisheng Wu, Jack Xiong

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**Scheduled Agenda****Item 1: Recent L1B LUT delivery**

- Terra collection 4 forward update – V4.3.0.28 (June 08) to DAAC.
  - Terra collection 4 forward update – V4.3.0.29 (June 27) to DAAC.
  - Terra collection 5 forward update – V5.0.6.5 (June 27) to DAAC.
  - Aqua collection 5 forward update – V5.0.7.2 (June 20) to DAAC.
- RW) Aqua collection 5 forward will probably start today.

**Item 2: Instrument status**

- Terra and Aqua MODIS are in normal operations.
- Terra MODIS data loss for about 6 and half minutes, 2005179/05:37-05:44 due to failure on TDRSS ground contact.
- Aqua SRCA test for 10W lamp anomaly.  
JX) The test was done yesterday. It is confirmed that 10W lamp #3 is bad. Only two 10W lamps (#1 and #4) left for 20W operation, no 30W available. This will impact and limit the SRCA characterization on some low gain RSB bands. We will provide detailed SRCA calibration change.

**Item 3: Terra Band 2 cross-talk (xtalk) correction (detector 29 & 30 on sub-frame 1) status**

- JX) We talked to Bob and it seems that they are interested in the Ocean products. They are going to send us more data to test. We provided three correction methods and suggested the second approach to be used in L1B for future. The approach #2 is to fill the bad pixel/sub-frame.

**Around the Table**

**Participant:** Robert Wolfe – Moon in the SD view port

- RW) Have you considered the Moon moving into the SD view port in the m1?
- JS) We know exactly when the Moon will be in the SD-Sun view. We pick the orbit for the m1 calculation that excludes the case of Moon in the SD port.
- JX) Last time we reported a sudden Terra m1 change (*see 10/20/2004 minutes*) during our regular m1 trending when there was a solar eclipse. We do not need to build this consideration into the L1B/m1 since we know when this will happen. Junqiang can provide you some MODIS reference numbers about the Moon in the SD view.

**Participant:** Chris Moeller – Terra SWIR XOOB correction & Aqua B33-36 calibration

- CM) I received the email from Weiwei and I'm reluctant to use the new XOOB coefficients due to the increase in the B26 striping.
- JX) Agree.
- CM) On the Aqua CO<sub>2</sub> bands B33-36, we adjusted the radiance by a small bias into MOD06 and the results are consistent. The numbers we are using are based on AIRS and ER2 aircraft based measurements. For example, B36 is about \_ to 1K warmer on Aqua and B34 is about 0.33K. By doing so, it will put all the bands in right/better positions in the comparison. For our own products, we can do this correction on front end so L1B does not need to change.
- JX) Have you tried Terra?

CM) ER2 comparison for Terra suggests they are further off in radiometry. The result is very positive. It's a constant offset for all angular direction.

**Participant:** Zhengming Wan – on the Space View DN & de-stripping

ZW) In the L1B process, has the DN value of SV been checked for variation, like stars?

JX) L1B has the check for lunar vector to eliminate the lunar signal in the SV count. There is also a 3-sigma rejection to exclude spikes in the SV DN. But there is no star tracker built in or used the L1B.

ZW) To report for de-stripping test in the atmosphere for LST products. We found 90-95% have small difference less than 0.2K. And about 99% pixels are within 1K. I think the de-stripping is ok for us.

JX) Those numbers make sense because one of the detectors (10%) can be out of family with more striping.

Next MsWG meeting scheduled on July 13, 2005