

March 3, 2004

MODIS sensor Working Group (MsWG) Summary

Attendance: Bob Barnes, Stuart Biggar, Vincent Chiang, Gene Eplee, Bob Evans, Gerhard Meister, Chris Moeller, Junqiang Sun, Jack Xiong, Zhengming Wan, Joe Esposito

Scheduled Items

Item 1 Instrument Status

- Terra SFE reset: SFE shut down for Terra platform while passing through the SAA on February 18th (2004049) at 14:31 GMT. The shutdown lasted for 25.5 hours. The SFE was re-started on February 19th (2004050) at 16:11 GMT. MODIS operated normally during the shutdown and trending results shows no changes occurred before/after the event.
- JX) Aqua: The instrument is operating nominally
Terra: The instrument is operating nominally

Item 2 L1B and LUTs related

- JX) LUTs: Bi-weekly RSB calibrations are preformed and LUTs are updated if changes are identified.
It is suggested by MCST that the Terra TEB RVS be updated with the DSM RVS
- BE) Since the SD door (SDD) has been open the MS difference seems to be increasing
- JX) The MS difference should be captured by the calibration coefficients (m_1s). Are you using the recent RVS?
- BE) Using the 4.3 LUTs sent to Miami there is still a MS difference.
- JX) MCST will look at the RSB RVS LUT to determine if capturing the effect at the SD AOI does not compensate for AOI (*Action: Junqiang to look at time dependent RVS to see if an update is needed*)
- JX) Terra OOB SWIR correction uses B28 (Aqua uses B25). The Terra coefficients are fitted linearly with a non-zero offset (C_0). However, L1B and m_1 only use the linear term, C_1 . In order to be consistent with Aqua and L1B, for Terra MCST will fit the linear term with the offset term set to zero (fit of slope only).
Page 4 (charts) of handout shows that for Aqua B26 detector 7 (product order) the fitted linear coefficient was near zero for mission days between 250 through 300 and near day 375. Chris may need to adjust B26 de-stripping parameters to take care of this effect for the reprocess in the future
- CM) Best if I go look at some data sets.
- JX) C_0 will be zero for all forward processing to be consistent with Aqua and L1B. We will send LUTs with both non-zero C_0 and zero C_0 to Wisconsin for comparison.

Around the Table

Participant: Chris Moeller – I have been looking at the granule interface region for the TEB de-stripping. For a fairly uniform scene the granule are more discontinuous than expected after the

de-stripping: 11[m ~ 0.01K, B36 ~ 0.5K, B23 ~ 0.1K. This is a preliminary result.
What was done previously so that we are consistent across granules.

- JX) MCST will look at data granules provided by Chris. (*Action: Vincent to look at this effect*).

Next MsWG meeting March 17, 2004