

MODIS TECHNICAL TEAM MEETING
June 6, 1996

The MODIS Technical Team Meeting was chaired by Robert Murphy. Present were Dick Weber, Bruce Guenther, David Toll, Steve Ungar, Chris Justice, Dorothy Hall, and Edward Masuoka.

1.0 SCHEDULE OF EVENTS

June 11 - 13	Primary Productivity Workshop at GSFC
July 17 - 18	Atmosphere Discipline Group Meeting in Chincoteague, VA
Oct. 2 - 4	MODIS Science Team Meeting (tentative)
Aug. 16	Revised ATBDs due to the EOS Project Science Office

2.0 MINUTES OF THE MEETING

2.1 MODIS Instrument Update

Weber prepared a draft statement for e-mail distribution that describes a deviation in the pointing testing by SBRS but does not change the technical specifications from the specified total of 90 arc sec to 300 arc sec for MODIS and to approximately 1200 m (3 sigma MODIS plus Spacecraft) knowledge at beginning of on-orbit measurements (see 31 May Minutes). Justice voiced the concerns of the land group and stated that relying on ground processing to reach spec must be matched by a detailed plan for implementation and the associated resources.

Weber reported that the SDSM is built and is ready for testing with flight electronics. The SRCA collimator is back from Tinsley, and the solar diffuser was installed. SBRS believes they have identified the problem with the flight electronics and they are implementing a fix. One flight door again exploded during testing, apparently because the vendor failed to allow for venting needed during pump-down. Weber reported the test of infrared band potential gain and saturation will occur about August, at instrument-level. Murphy wants to ensure that the MODIS Technical Team has sufficient time to respond to any last minute problems.

2.2 MCST Reports

Guenther is attempting to schedule MODIS calibration meetings this summer to prepare for calibration model audits. An infrared calibration meeting will be held at the University of Wisconsin. The reflective solar calibration meeting will likely be held at GSFC, but Guenther is open to suggestions where they will obtain a good turn out from the science team members. Justice said that in the past the calibration representatives for the land group have been Jan-Peter Muller and Alfredo Huete for the reflective solar calibration meeting and Wan for the thermal infrared. Eric Vermote will now be added to the group concerned with Solar Calibration. Guenther reported that MCST will work with SBRS to provide one set of software code for the ground support system software and TAC. Guenther thinks the joint effort will reduce the overall error and save costs and scheduling. Guenther said they are also researching possible times for on-board calibration periods to reduce adverse effects from proton showers. Guenther reported that MCST is doing a good job developing models using analytical solutions for testing the calibration data when available.

2.3 SDST Reports

Masuoka reported that IRIX 6.1 is the operating system for the Silicon Graphics computers at the GSFC DAAC in Release A. However, MODIS must deliver its software to the DAAC under IRIX 6.2. SDST must use IRIX 6.2 in order to perform realistic benchmarks of Version 1 software performance on hardware comparable to what will be available at launch. Therefore, SDST proposes to deliver the Science software under IRIX 6.2 and let the DAAC integrate portions of the overall delivery into the DAAC Release A system running IRIX 6.1. SDST personnel will be available to answer questions posed by DAAC personnel during the porting process. Justice cautioned that SDST should make sure that the DAAC and ECS step up to the testing they need to do to ensure that the MODIS processing runs smoothly at launch.

He voiced concern that SDST should not become overextended by taking on ECS and DAAC testing responsibilities.

Masuoka reported SDST is developing possible MODIS browse. SDST will work with the Science Team to develop browse products.

2.4 Land Reports

Justice said members of the MODIS science team met with NOAA personnel at NOAA NESDIS. He reported NOAA was primarily concerned about the timeliness of delivery of the MODIS products. The guaranteed four to six days is too long for many activities such as weather forecasting. Justice said the MODIS revised ATBDs are due this August and the Validation Plan is due this September. The Validation Meeting, coordinated by Dave Starr, may be moved from August to September.

Hall reported there is an ad hoc snow and ice group meeting of six people scheduled for this September. The group consists of a mixture of algorithm developers and application users.

Ungar reported that AVIRIS will not fly this summer in the BOREAS campaign due to cost constraints. However, BOREAS will have MAS on the ER-2 for one week. Hall reported that they still have not received their MAS data from April 1995 due to calibration problems.

3.0 ACTION ITEMS

3.1 New Action Items

1. E. Masuoka. Place constraints on the MODIS science team so they do not extend their software beyond IRIX 6.2, causing system incompatibility problems.