

# MODIS TECHNICAL TEAM MEETING

**July 21, 1995**

The MODIS Technical Team Meeting was chaired by Vince Salomonson. Present were Bruce Guenther, David Herring, Bill Barnes, Mike Roberto, Dorothy Hall, Dick Weber, Locke Stuart, Chris Justice, Yoram Kaufman, Ed Masuoka, Wayne Esaias, Gene Waluschka, Steve Ungar, and Harry Montgomery.

## **1.0 SCHEDULE OF EVENTS**

- Aug. 1 - 2           MCST Software Test Readiness Review
- Aug. 3            Adobe Acrobat demonstration by David Herring to the  
                    Technical Team
- Aug. 8            MODIS Transient Response Presentation, at GSFC Bldg. 16,  
                    room 236 (\*Science Team and other invited Team members  
                    only.)
- Aug. 31           Data Quality Assurance Presentation by Bob Lutz to the  
                    Technical Team
- Sept. 6           MODIS Calibration Peer Review at SBRC
- Sept. 14          "MODIS-light" Follow-up Presentation by Paul Westmeyer  
                    and Steve Neeck to the Technical Team
- Nov. 13 - 17      MODIS Science Team Meeting at GSFC

## **2.0 MINUTES OF THE MEETING**

### **2.1 MCST Reports**

Guenther reported that MCST is conducting analyses of near-field scatter data from the MODIS Engineering Model (EM). These studies will help MCST characterize the EM and better understand the fixes proposed by SBRC to be incorporated into the MODIS Protoflight Model (PFM).

Guenther reported that SBRC agreed to release all source code for their TAC (Test Analysis Controller) software. This code will provide MCST the opportunity to add value to SBRC's test data, which MCST can apply to its version 1 and version 2 code.

### **2.2 MAST Reports**

The MODIS Science Team Meeting has tentatively been rescheduled to Nov. 13 - 17, 1995. Due to a conflicting engagement, the previous dates of Oct. 16 - 20 were impossible for the MODIS team leader to attend due to other imposed commitments.

Herring announced that the minutes from the last Science Team Meeting are now available for review by the team. The minutes were rendered in HTML

(hypertext Markup Language), by Tim Dorman of MAST, and made available on the WWW on MODIS' Document Preview/Test Page. The Attachments are available in MODARCH.

Additionally, on that same WWW page there is a link to the "MODARCH <-> WWW Interface Test Page" created by Mike Heney, of MAST. The purpose of this page is to make it possible for the Team to browse titles of documents available in MODARCH via the WWW, and to set the stage for a later, more robust interface down to the individual page level. Please note, the ability to view the documents themselves is not currently offered; however, that is a goal of MAST's.

### **2.3 MODIS-related Papers Accepted for Publication**

Ungar reported that he had three papers accepted for presentation at a symposium in Australia. The subjects of the papers are the MODIS Airborne Simulator, data simulation, and the MODIS bowtie effect.

### **2.4 SDST Reports**

Masuoka reported that Catherine Harnden is now the deputy SDST leader.

### **2.5 MODIS Calibration Specifications**

Kaufman stated that he would like to discuss further the difference between MODIS' absolute calibration specs. He said there is a question as to whether the absolute calibration spec should be 5 percent or 2 percent relative to the sun. He pointed out that most algorithms can do a better job with 2 percent than 5 percent.

Guenther responded that he talks in terms of 2 percent relative to the sun, using a reflectance calibration method. MODIS' solar diffuser will measure the incident sun content and then the backscatter will be measured without the diffuser. Then MCST can compute the top-of-atmosphere reflectance--a quantity he is trying to get SBRC to test against. In short, Guenther stated, 2 percent reflectance is eminently doable for MODIS, a strategy discussed in MCST's Calibration ATBD.

## **3.0 ACTION ITEMS**

### **3.1 Action Items Carried Forward**

1. *Herring*: Prepare a response to Mougini-Mark's request to provide a short (one page) statement on how each MODIS Science Team member's investigation(s) contribute to the educational objectives of MTPE and EOS.
2. *Herring*: Collect specific questions from MODIS Team members to forward to Steve Neeck and Paul Westmeyer, so that they may incorporate responses into their next presentations, tentatively scheduled for Aug. 17.
3. *Masuoka*: Cost out bringing up a MODIS test string in January 1996 at EDC and forward the information to Steve Kempler.

4. *Discipline Group Leaders*: Identify contacts with appropriate IDS investigators, and encourage regular interaction.
5. *MCST*: Consider Yoram Kaufman's concerns and prepare an explanation or brief presentation for the Technical Team as to which unit is best suited for MODIS' Level 1 data--radiance or reflectance.
6. *MAST*: Begin preparing the Agenda for the next MODIS Science Team Meeting--begin planning topics for 2-hour to half a day roundtable discussions and team members to moderate them. Also, allow time for a 1- to 1.5-hour Discipline Group Splinter Session on the first day.
7. *Dave Diner & Ed Masuoka*: MODIS and MISR need to settle on a protocol(s) to deal with Level 1 and Level 2 data sets to be passed between the two teams to produce joint products. Report at the next SWAMP Meeting.
8. *Guenther*: Report the modeled results of the 1,000K source for SBRC's integration and alignment collimator to the Technical Team. [These data are forthcoming.]
9. *Fleig and Ungar*: Interact with the group leaders to develop a MODIS data simulation plan for review at the next Science Team Meeting. [Work on this item is still in progress. Simulated data are now available via FTP, and a white paper is forthcoming from Fleig.]

### **3.2 Closed Action Items**

1. *Heney/Herring*: Place a copy of the *EOSDIS Data Products Reference Guide* in MODARCH and announce that it is available for review to the MODIS Team. Also, solicit comments/criticisms from the Team and forward this input to Monica Myers, ESDIS Project. [This document was placed on MODARCH and a letter was sent to the Science Team on July 24 asking them to review it.]