

## MODIS TECHNICAL TEAM MEETING

**Building 33, Room E125  
January 13, 2000**

Vince Salomonson chaired the MODIS Technical Team Meeting. Present were Ken Anderson, Bill Barnes, Francesco Bordi, Barbara Conboy, Wayne Esaias, Bruce Guenther, Dorothy Hall, David Herring, Michael Hohner, Chris Justice, Steve Kempler, Ed Masuoka, Harry Montgomery, Bob Murphy, Mike Roberto, Dan Tarpley (NOAA), and Eric Vermote, with Deborah Howard recording the minutes.

### **1.0 SCHEDULE OF EVENTS**

SWAMP Meeting GSFC	March 2–3, 2000
EOS-IWG Tucson, AZ	April 11–13, 2000
AGU 2000 Spring Meeting Washington, DC	May 30–June 3, 2000
COSPAR 2000 Warsaw, Poland	July 16–23, 2000
COSPAR/IRS Joint Symposium Warsaw, Poland and St. Petersburg, Russia	July 21 and July 24, 2000
IGARSS 2000 Honolulu, HI	July 24–28, 2000
IRS-2000 St. Petersburg, Russia.	July 24–29, 2000
VENICE-2000 (Oceans from Space) Venice, Italy	October 9–13, 2000
EOS-PM Launch	December 21, 2000

### **2.0 MINUTES OF THE MEETING**

#### **2.1 Instrument Report**

Mike Roberto reported that MODIS is continuing in outgassing mode this week. Bruce Guenther reported that we are expecting to transition to science mode on Monday, January 17, 2000. Although the full MODIS data rate will be coming down, not all components will have useful science or engineering information. However, this will give us a chance to test the science data system. The nadir

aperture door (NAD) is scheduled to be opened on February 1, plus or minus 1 to 2 days. Salomonson asked whether this meant that we would begin to receive SRCA, SDSM, and solar diffuser data. Guenther replied that those systems would be capable of being turned on, but would not necessarily be turned on yet. During the first week after the NAD is opened, the focus will be to look at data in the onboard calibrator sectors. MCST will be able to work with Level 1B, version 2.2.0 (the current version) until about January 20 and then would need the functionality from L1B, v.2.3.2 (the new version). Level 1B (PGE02), v.2.3.2 is in test mode at the DAAC. There will be no data in the earth view sector until after January 20.

Bob Murphy said the MODIS team is considering when and how to freeze the code to make it easier for algorithm users. He would like input on this issue, which will be discussed at the next MODIS Working Group on L1 Integration meeting.

## **2.2 GDAAC**

Steve Kempler reviewed GDAAC Notes for the MODIS Technical Team Meeting dated 1/13/2000 (see Attachment 1). He said that the DAAC is receiving Application Process Identifier (APID) data regularly and sending data to MODAPS for analysis. The DAAC does not have earth verification for DPREP yet and there is still a split-scan issue that relates to image striping.

Kempler showed the group sample browse data images that are produced at the GDAAC. The browse images do not contain science data, however, a quick look with RGB can be used to select data to order from the DAAC. Kempler said that these browse images are different from first/early images. The browse data and images are needed to optimize how data are pulled out of the system.

## **2.3 MODAPS**

Ed Masuoka said that Andy Germain and Jeff Smith gave a network presentation at the PI Processing meeting. They explained that the DAAC's have guaranteed bandwidth out of GSFC and MODAPS does not have guaranteed bandwidth to the SCF's.

Masuoka reviewed PGE Status dated 1/13/00 (see Attachment 2). He said that more products are inserting into the archive and more are able to be ordered out of the archive. Wolfe is contacting EDC on those products that are not inserting. MODAPS is working through metadata and receiving a lot of metadata updates. For example, the polar grid through NSIDC has a lot of metadata updates. Science code changes are holding up testing.

## **2.4 Oceans**

Wayne Esaias reported that the Oceans group is working to get the Oceans metadata fixes up and tested and into the archive. He said that the new versions of the PI Processing and L1 meetings are very useful.

Esaias said that the Oceans group would like the ability to order Oceans data products effectively when the DAAC portals are open and it seems that the ECS

Drop 5A.04 may not include that feature. It looks like the user would not be able to order the files individually, the files would be too large. Masuoka said that a parameter level order would be possible, however the DAAC would not be able to ship individual parameters with Drop 5A.04. Esaias said that Greg Leptoukh is preparing a workaround for this at the DAAC and the Ocean group is focusing on using that. He said that he would like some suitable test files with “real” data to send to the SeaWiFS Data Analysis System (SeaDAS) in a test.

### **2.5 PI Processing/Land**

Chris Justice said that the reformatted L1 and PI Processing meetings are working well. The Land group 250m is moving along, they are putting MODAPS software into that. One Land group issue is early images and what the next level of maturity of a first image would look like. He said a member of the Land group would bring a sample image to the next Technical Team meeting.

### **2.6 Snow and Ice**

Dorothy Hall said that her group is planning for a field experiment that would be done by March 18 or 20. Murphy said that deep space maneuvers would take place sometime between March 9 and 13. It is not likely that we would avoid deep space maneuvers for the whole period from February 15 through March 13 as discussed at the Tech Team last week.

### **2.7 Early Images**

David Herring presented an overview of Terra project ideas and considerations for the first release of images. There is a strong focus on a first press conference for Terra that would emphasize the mission’s synergistic, multi-instrument approach. Considerations include the time needed to produce attractive and meaningful images as well as the Public Affairs Office’s (PAO’s) focus on waiting until all instruments are ready to present a coordinated, multi-instrument press conference before any images are released. Esaias suggested including individual MODIS Discipline images in conjunction with synergistic MODIS and Terra images. Salomonson commented that the Terra Press Conference should include some time for each instrument to describe what their instrument does.

Herring presented tentative dates for the Terra press release that include some early April dates. He also presented a list of some suggested scenarios for images and visualizations. Suggestions included ways to show off new MODIS capabilities and themes with science tied in. Murphy suggested that the Disciplines respond about which scenarios they would like most.

Salomonson said he would like to wait for good images and/or results before releasing MODIS images. He strongly advised the MODIS team to agree to the timelines for coordinated Terra release of images and to not release images before the joint Terra release. Murphy added that direct broadcast should not be released earlier than the joint release either. Salomonson said that if MODIS Science Team members have reservations about this approach they should let him and Bob Murphy know as soon as possible.

Justice commented that a key issue for MODIS is developing a stable time series. Kempler suggested that the DAAC and MODIS-related Web sites post an explanation of the process necessary for image release before releasing images. Masuoka suggested that using sample data and test data to shake out the system may help people learn how to work with it.

## **2.8 MAST**

Barbara Conboy reported that she would be sending out updates on Terra Status to the science team members. Hohner has been updating the MODIS Web site news page. The Latest News link on the MODIS home page leads to current MODIS news sections. The MODIS PFM Instrument link includes Terra Mission Status, Key Events Timeline, MODIS Instrument Reports, and Schedules. Suggestions for other MODIS-specific news are welcomed and encouraged. Murphy proposes that Hohner do a walk through of the MODIS Web site at another Tech Team meeting.

Conboy presented the MST action items and Technical Team action items for the group to review (see Attachment 3). The status of the MODIS Science Team and Technical Team actions are include under Action Items (see section 3.0, below).

## **3.0 ACTION ITEMS**

### **3.1 MODIS Science Team Actions Carried Forward**

1. Hohner: Reassess the use of the password protection on MODARCH and examine using password protection only for the proprietary documents.

Status: This action remains open. Ken Anderson said that one consideration is concern about international access. Esaias questioned whether MODIS should include the Science Team members' quarterly and semi-annual technical reports on the Web site. Hohner asked MODIS team members to please review the MODIS site and send him suggestions about it.

2. Fleig/Discipline Leads: Develop a standard for labeling of MODIS images including MODIS and/or EOS logos, credits, and references. Credits could include the names of Science Team members, the product developer, the Discipline group, and references to the developers/scientists of predecessor products.

Status: Justice said he had worked with Fleig on this issue and would bring a sample draft for early images to present at the next Tech Team meeting.

3. Discipline Leads: Decide on how to identify and review images.

Status: Combine this action with #2, above.

4. Masuoka: Send via e-mail a list of network contacts categorized according to Level 2, Level 3, etc. to MODIS team members.

Status: Sol Broder sent an e-mail to the MODIS team members. Masuoka will ask him to send it out again.

### **3.2 Closed MODIS Science Team Actions**

1. Salomonson: Update the Science Team on the Terra launch date status.

Status: Closed.

### **3.3 MODIS Technical Team Action Items Carried Forward**

1. Hohner, Fleig, and Masuoka: Include a space for MODIS early images on the MODIS home Web site. After launch, it would include downloadable early images on the MODIS site and a link to the DAAC's for obtaining products and data. The TRMM and SeaWiFS Web pages and how they process and present images can be used as good examples.

Status: This item remains open.

2. Masuoka: Submit an EOS-PM Data Product Update to ESDIS.

Status: This action item remains open.

### **3.4 Closed Technical Team Action Items**

1. Kempler and Masuoka: Present to the Technical Team an agreed upon volume for MODIS Q/A data distribution.

Status: This item is closed.

2. Legg: Find out when and how NASA MODIS representatives will be integrated into the NOAA review process and report on status to the MODIS Technical Team. NOAA has agreed to have MODIS representatives serve on the NESDIS data product review boards (Product Oversight Panel). However, MODIS representatives have not yet been invited to participate in an advisory panel.

Status: Closed. Eric Vermote represents the Land Group, Wayne Esaias represents the Oceans group, and Bill Ridgway represents the Atmosphere group.