

MODIS TECHNICAL TEAM MEETING

**Building 33, Room E125
February 3, 2000**

Vince Salomonson chaired the MODIS Technical Team Meeting. Present were Ken Anderson, Bill Barnes, Jacques Descloitres, Wayne Esaias, Bruce Guenther, Dorothy Hall, David Herring, Chris Justice, Steve Kempler, Michael King, Ed Masuoka, Harry Montgomery, Skip Reber, Dave Toll, and Eric Vermote, with Deborah Howard recording the minutes.

1.0 SCHEDULE OF EVENTS

SWAMP Meeting GSFC	March 16–17, 2000 Tentative date
EOS-IWG Tucson, AZ	April 11–13, 2000
CEOS WGISS/GOFC Meeting London, England	April 11–14, 2000
CEOS WGCV Moderate Resolution Land Products Validation Meeting Joint Research Centre, Ispra, Italy	May 22–25, 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
Aqua Launch	December 21, 2000

2.0 MINUTES OF THE MEETING

2.1 Instrument Report

Bill Barnes discussed timing options for opening the MODIS doors, considering that Terra would not reach orbit until February 24. These options are based on a successful Delta V burn sequence beginning on February 10 and ending on February 24 to place Terra in the same orbit as Landsat 7. The first option would be to open the doors next week after the next burn, start taking data, and not do the yaw maneuvers because it does not seem that we could do the yaw maneuvers while doing the burns. A second option would be to open the doors on February 13, then close the doors to do the yaw maneuvers and then open the doors again. This option would involve some risk in opening and closing the door more than usual. The third, most conservative course of action would be to open the doors after February 27. This would allow time to conduct the yaw maneuvers after Terra is on orbit. Guenther explained that the NAD should be closed to do yaw maneuvers so that solar observations are not contaminated by earthshine.

Some of the validation efforts planned during the last 2 weeks of February have been or could be delayed. Hall said that her group had changed plans and were planning on going out on February 29. She said that Anne Nolin and others were planning to delay field maneuvers for the same reason. Shusun Li's cruise goes until March 31 in the Antarctic. Hall said she would be willing to wait until a later date than originally planned and that her group could get sites further north if necessary to find appropriate snow cover. They have received permission to fly into Canada and she is willing to give up some hours to have simultaneous MAS and MODIS data. Esaias said that Dennis Clark had postponed his February cruise until March or April.

Since the validation efforts could be moved back, the group agreed it would be best to stay with the conservative course. They also agreed that it would be best to start planning press release dates when we have data. A success schedule would mean opening the doors February 29 or after. Esaias said that if the burn next week does not go well he would like to see a more aggressive schedule.

2.2 GDAAC

Kempler mentioned that Patrick Coronado, Code 935, is working on Terra Direct Readout (DRO) and that the GDAAC is providing data processing for MODIS-related DRO. He reviewed GDAAC Notes for the MODIS Technical Team Meeting dated 2/3/2000 (see Attachment 1). The DAAC is in the process of ingesting Attitude and Ephemeris Data (APID04). The DAAC plans to promote MODAPS data products to Ops mode after successful testing.

At the MODIS Working Group on L1 meeting yesterday there was some concern about not having enough processing power when a machine is down, etc. Esaias asked whether personnel would be able to keep up with a problem that is manual and labor intensive. Kempler asked the MODIS team for input on establishing an order for L1 production in such an event. One option would be to have a gap in data. Esaias asked for suggestions on how to stratify the glitches that might come along. He strongly advised that the Disciplines need to coordinate on guidelines for the DAAC's. Some possible approaches might be to

drop PGE's or drop hours. Other approaches would be to process a full orbit, a whole day, or a week or 8-day cycle. Justice said that we would want enough contiguous data to do higher level processing. He suggested taking the discussion to the MODIS Working Group on L1 integration/processing meeting. As an addendum to these minutes, Bruce Vollmer identified the nominal time to process 24 hours of MODIS data through PGE01-02-03-71 as 16 hours, assuming all data inputs were available.

2.3 MODAPS

Masuoka reviewed PGE Status dated 2/3/2000 (see Attachment 2) and said that MODAPS is moving through the level 2G data processes. He reported that MODAPS is back to 3 TB this week because of a bad cable on the 10 TB. One of 3 TB will go to the PDR server when the 10 TB is up and working. That should be in about another week.

Masuoka said that MODAPS is reviewing the agreement with the DAAC that includes ingest and processing guidelines. He said that rather than an MOU for a rolling archive, they would have a more informal agreement documented in a letter. It would indicate that we would ingest over the baseline if possible and then have a rolling archive. Esaias stated that he does not think it is reasonable to abide by the February 1996 baseline and do our science.

2.4 Land Group

Jack Descloitres showed those present a sample early image that included sample logos (see Attachment 3). Justice said that one purpose for presenting the image was to obtain feedback about the logos. He presented a reprojected, top of the radiance, RGB image in which he had taken out redundant data points. Descloitres said that they could showcase a 250 m image after the L1B data is made available. He would like to use a multiresolution image to show off MODIS capabilities and said it would be optimal to show it side-by-side with an AVHRR or SeaWiFS image.

2.5 Snow and Ice

Hall said she would be attending a Polar DAAC User Working Group (PoDAG) meeting, on February 7-9, to report on snow and ice. Herring said he is ready to work with the MODIS team to develop image ideas.

2.6 Atmosphere Group

King said that he is updating the MODIS Atmosphere Validation plan, which would go through the post-Aqua period, and looking at scheduling a validation workshop at about a year after launch. He is working on a strategy to include coherent information on the data that would be available from the Terra instruments on the agenda for the next IWG meeting. This would include MODIS data and validation plans.

2.7 Oceans Group

Esaias said that Dennis Clark is looking for a later cruise; it is too late to get clearances for a Mexican cruise in April. The Ocean group has scheduled a cruise workshop, on February 23-26 in Hawaii, to review results from the

MOCE-5 cruise on the RW Melville that took place on October 1–21, 1999. Esaias reported that he is working with David Herring on preparing fluorescence images.

2.8 Odds and Ends

Reber asked that the MODIS team update the timing for availability of MODIS products on the EOS Terra Data Products chart once the NAD is open and science data becomes available. Please give specific, realistic dates on data products for that listing (see: http://eosdatainfo.gsfc.nasa.gov/eosdata/terra/terra_dataprod.html#modis).

He has sent out a request for help on valids (imbedded in metadata) and aliases. The aliases are synonyms for the valids. He asked the MODIS team to please check the list of aliases to make sure it is complete and not redundant. Reber said that information should come from scientists so that the data would be more accessible.

Salomonson announced that all the MODIS abstracts are on the list for the IGARSS invited session (20 papers). There are at least 12 contributed MODIS papers.

3.0 ACTION ITEMS

3.1 Action Items 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. 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. 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.

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

Status: This action item remains open.

3.2 Closed Action Items

1. 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: Desclotres presented a sample early image at the February 3, Tech Team meeting today (see section 2.4, above).