

MODIS Science Data Support Team (SDST) Meeting Minutes 05/28/93

ATTENDEES: Robert Bealle, Francesco Bordi, Dave Case, Ruiming Chen, Larry Fishtahler, Al Fleig, Tom Goff, Paul Hubanks, Geir Kvaran, Ed Masuoka, J.J. Pan, Shahin Samadi, Greg Schmidt, Carl Solomon, Robert Stewart, Jim Storey, Lalit Wanchoo

NEXT MEETING:	DATE	TIME	BUILDING	ROOM
	Friday, June 4	10:00am	22	G95

TOPICS:

1. MODIS AIRBORNE SIMULATOR (MAS): Paul Hubanks presented the results of a timing and storage requirements study for MAS processing. For the 16 FIRE and 12 ASTEX tapes he estimated that it will take roughly 42 working days (doing two tapes simultaneously) to complete the processing. The 17 TOGA/COARE and 12 CEPEX tapes will take an additional 44 working days plus any time required to correct for navigation failures and possible clock offsets. Comments included looking into the performance of stop/start versus streaming I/O devices, and further examination of the long duration part of the process to see what can be optimized or parallelized in the future. Identify possible improvements, such as bigger disk drives or more computers, to allow for shorter wall clock times. Look for any feed-back loops in the processing chain that could generate risk items.

2. MODIS LAND PROTOTYPE: Ruiming Chen discussed the steps she has taken to get the land prototype task started. She mentioned that Alan Straler will be sending prototype code later, but he is currently using PCI for land cover classification and scene registration. The source of TM and MSS data is currently unknown, but AVHRR will be coming from EDC.

3. MODIS OPERATIONS CONCEPT: A proposed outline of the MODIS Operations Concept Document was included in the handout. A section will be added on the operational environment, identifying where (TLCF vs PGS) quality control will be exercised. A discussion of configuration management (CM) will also be included.

Larry Fishtahler recommended adding sections on test scenarios with each build in the document.

4. MISCELLANEOUS: Shahin Samadi mentioned that the LTP Indigoes will be updated with R4000 processors shortly. This should help the MAS processing.

The status of the T1 link from GSFC to RDC to support SDST software development will be supplied by the NASA Science Internet (NSI) project. Until the network link is in place, SDST is exploring using SLIP to

connect programmers at RDC with the MODIS TLCF.

ACTION ITEMS:

1. 05/14/93 [PAUL HUBANKS]. Due Date: 05/28/93. Select a sample MAS input tape and document all of the steps involved in processing the data, determining the time required for each step and identifying any limiting factors which affect the processing. (A report was included in the handout.) STATUS: Closed.
2. 05/14/93 [J.J. PAN]. Due Date: 06/04/93. Make a list of desired features of the PGS toolkit. STATUS: Open.
3. 05/21/93 [Jim Storey]. Due Date: 05/28/93. Get the latest information on the platform position and attitude update interval from GE and/or TONS. (Interim results are included in the handout.) STATUS: Open.
4. 05/21/93 [Ed Masuoka]. Due Date: 05/28/93. Arrange a meeting with the SeaWiFS group and SDST programmers to discuss SeaWiFS browse software. (An E-mail message was sent to the SeaWiFS software person.) STATUS: Open.
5. 05/21/93 [Ruiming Chen]. Due Date: 05/24/93. Provide the latest storage requirements and qualifiers to Al Fleig for presentation to the Technical Team. STATUS: Closed
6. 05/21/93 [Lloyd Carpenter]. Due Date: 05/28/93. Post the SDST responses to all currently received RIDs back to the original writers. (The RIDs are still being reviewed.) STATUS: Open.
7. 05/21/93 [Lloyd Carpenter]. Due Date: June 14 (draft), June 21 (final). Create a generic document template for the interchange of information between MODIS and other instruments. STATUS: Open.
8. 05/21/93 [Lloyd Carpenter]. Due Date: 06/18/93. Complete the first draft of the MODIS Operations Concept document. Provide a plan for this document by 05/28/93. (An outline was included in the handout.) STATUS: Open.
9. 05/28/93 [Jim Storey]. Due Date: 06/30/93. Complete an Algorithm Theoretical Basis Document (ATBD) for MODIS Level 1A Geolocation. STATUS: New.
10. 05/28/93 [Shahin Samadi]. Due Date: 06/30/93. Get a copy of the Global Land Information System (GLIS) (from EDC) onto the SUN. STATUS: New.
11. 05/28/93 [Geir Kvaran]. Due Date: 06/11/93. Get a copy of the latest MCST calibration algorithm discussion and diagram for SDST use. STATUS: New.

12. 05/28/93 [Francesco Bordi]. Due Date: 06/04/93. Characterize the S/C position and attitude as to accuracy, timeliness, jitter, Kalman filtering, etc. STATUS: New.
13. 05/28/93 [Jim Storey]. Due Date: 07/30/93. Develop a plan and schedule for MODIS geolocation prototyping and testing. STATUS: Open.
14. 05/28/93 [Larry Fishtahler]. Due Date: 06/04/93. Obtain a current copy of the PGS Toolkit Study Report for the SDST. STATUS: New.