

## MODIS Science Data Support Team (SDST) Meeting Minutes 9/20/91

ATTENDEES:	Phil Ardanuy	RDC	982-3714
	Lloyd Carpenter	RDC	982-3708
	Al Fleig	900	286-7747
	Harold Geller	RDC	982-3740
	Tom Goff	RDC	982-3704
	Liam Gumley	RDC	982-3748
	Lou Kouvaris	Hughes	464.7365
	Ravi Kumar	STX	513-1630
	Jim Ormsby	974	286-6811

NEXT MEETING:	Date	Time	Building	Room
	Friday, October 4	10:00 am	16	242

### TOPICS:

1. MODIS TEAM LEADER COMPUTING FACILITY (TLCF): Lloyd Carpenter presented a strawman outline for the functions and size of the TLCF. In the discussion, the TLCF was characterized as a scaled version of the EOSDIS Core System (ECS) which can support pre and post launch algorithm development, integration, testing, validation, modification and evolution. It should also provide computing resources for the MODIS Team Leader and Goddard Team Members, and it should provide support for quality control and test of the MODIS products. To meet these requirements, it was suggested that the TLCF should be capable of processing MODIS data at twice the full rate, and it should have total storage adequate to hold the data from one orbit per week for a ten year period (of the order of 2 Terabytes). The requirements for communications, displays, I/O, etc. should be based on a more complete definition of the TLCF operating environment.

2. MODIS IMAGE REGISTRATION: Jim Ormsby and Lloyd Carpenter presented notes from a meeting with Bill Clark (CSC) and telephone conversations with R.J. Thompson, Lynn Olson and John Boyd of EDC, and David Diner and Ken Jones of JPL on various aspects of previous experience and future plans for image registration. Efforts to build an automatic image registration system for MODIS should take into account the lessons learned in the extensive work that has already been done with images from Landsat, AVHRR, and other systems. The consensus is that it will be

a challenging task to develop a reliable automatic system which will consistently do image registration at the 0.2 pixel level of accuracy for all seasons of the year, atmospheric conditions, etc.

2. MODIS AIRBORNE SIMULATOR (MAS): Liam Gumley presented a progress report on MAS Level-1B processing system development, documentation of the assumptions and methodology, and an updated milestone chart for the task. All work is on schedule, and the system is expected to be ready for the FIRE data. (The FIRE field phase is scheduled to run from November 13 to December 7, 1991.)

3. NETCDF FORMAT FOR MAS: Tom Goff presented comments on the proposed use of the NetCDF format for MAS data distribution, along with a proposed data set structure. Some questions remain as to the details of the implementation.

#### ACTION ITEMS:

05/03/91 [Lloyd Carpenter and Tom Goff]: Prepare a Level-1 processing assumptions, questions and issues list, to be distributed to the Science Team Members and the MCST for comment. (A revised version of the overview was included in the handout.) STATUS: Open. Due date 06/07/91.

06/07/91 [Liam Gumley]: Speak to Alan Strahler, when he returns, regarding his MAS requirements. (A message was left on Strahler's recorder.) STATUS: Open. Due date 07/05/91

05/31/91 [Al McKay and Phil Ardanuy]: Examine the effects of MODIS data product granule size on Level-1 processing, reprocessing, archival, distribution, etc. (A summary was included in the handout.) STATUS: Closed. Due date 06/21/91

06/28/91 [Lloyd Carpenter and Tom Goff]: Prepare a detailed list of scheduler assumptions in relation to Level-1 MODIS processing scenarios. (Lists were provided on July 26 and August 16, 1991.) STATUS: Open. Due date 07/26/91.

08/30/91 [Team]: Determine what the SDST should present at the Science Team Meeting, and who should make the presentations. (A list of suggested topics was included in the September 6 handout.) STATUS: Open. Due date 09/06/91.

08/30/91 [Lloyd Carpenter]: Draft a schedule of work for the next 12 months. Include primary events and milestones, documents to be produced, software development, MAS support, etc. STATUS: Open. Due date 09/27/91.

08/30/91 [Lloyd Carpenter]: Contact Sol Broder regarding the MODIS interface with the scheduler. (Haven't yet succeeded.) STATUS: Open. Due date 09/13/91.