

MODIS Science Data Support Team (SDST) Meeting Minutes 04/30/93

ATTENDEES: John Bauernschub, Lloyd Carpenter, Jy-Tai Chang, Ruiming Chen, Larry Fishtahler, Al Fleig, Tom Goff, Paul Hubanks, Virginia Kalb, Geir Kvaran, Ed Masuoka, John Moses, J.J. Pan, Shahin Samadi, Carl Solomon, Jim Storey, Lalit Wanchoo

NEXT MEETING:	DATE	TIME	BUILDING	ROOM
	Friday, May 14	10:00am	22	G95

NOTE: There will be no regular MODIS SDST meeting on Friday, May 7th. There will be a dry run of the Level 1A Requirements Review at the RDC offices (7855 Walker Drive, Suite 460) from 8:30 until 12:00 noon on Friday, May 7th.

TOPICS:

1. MODIS AIRBORNE SIMULATOR (MAS): Paul Hubanks completed the verification of the brightness temperature (IR) and reflectance function (VIS) values generated by the modified MAS Quick Look program. The images from the 17 June 1992 ASTEX flight were delivered to Tom Arnold.
2. MODIS EARTH LOCATION ERROR REPORT: Paul Hubanks discussed the comments from Chuck Wivell (EROS Data Center) on the MODIS Earth Location Error Report. Wivell provided alternate derivations for some of the formulas, and also considered a pitch error as an error in the time at which a point on the surface is observed, rather than an along-track displacement. This approach leads to an effect from the rotation of the Earth during the difference in time. Hubanks determined that the Earth rotation during the time corresponding to the RSS of the instrument and platform pitch spec errors is approximately 30 meters.
3. MODIS LEVEL 1A DATA RATES AND VOLUMES: Tom Goff presented an update of the description of the MODIS Level 1A data rates, volumes, structure, and processing requirements.
4. MODIS PROCESSING AND STORAGE REQUIREMENTS: Ruiming Chen gave a report on the processing and storage requirements for MODIS Level 1-4 products, including the latest available information on Level 1A, and the information provided by the team members for Level 2-4. Chen also provided a list of the output parameters included in each of the Level 2-4 products, as provided by the team members.
5. MODIS GEOLOCATION ACTIVITIES: Jim Storey reported that he has

provided an estimate of the processing requirements for the MODIS Level 1A geolocation, including location to the ellipsoid, correction for terrain displacement, and satellite and solar angle computation. The requirements were derived by analyzing the computations involved in each algorithm, and also by using prototype software.

ACTION ITEMS:

12/22/92 [LLOYD CARPENTER]. Due Date: 03/19/93. Survey the MODIS science team members to determine computer storage and processing requirements for Level 2 processing. (The initial survey has been completed and discussed at the SDST meetings. The work continues as an on-going task to provide improved results to the Team Leader as more and better information is received.) STATUS: Closed.

04/16/93 [RUIMING CHEN]. Due Date: 04/29/93. In conjunction with the estimation of computer storage and processing requirements, develop a list of all parameters which make up each of the MODIS products. (The list was included in the handout.) STATUS: Closed.