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To: MODIS.DATA.TEAM  
Subj: MODIS SDST Minutes 10/09/92

MODIS Science Data Support Team (SDST) Meeting Minutes 10/09/92

ATTENDEES: Tom Bryant, Lloyd Carpenter, Jy-Tai Chang, Larry Fishtahler, Al Fleig, Tom Goff, Liam Gumley, Paul Hubanks, Ed Hurley, John Langan, J. J. Pan, Shahin Samadi, Greg Schmidt, Will Webster

NEXT MEETING:       Date       Time       Building Room  
                  Friday, October 16 10:00 am   22    G95

TOPICS:

1. MODIS AIRBORNE SIMULATOR (MAS): Liam Gumley reported on MAS software/data developments. He has completed and tested a program to compute sensor weighted solar spectral irradiances. These will be stored as global attributes in each MAS output file. Several improvements were made to the NetCDF output format.

2. MAS PROTOTYPE LEVEL-2 SHELL: Liam Gumley and J.J. Pan obtained the base map image used by EDC to register AVHRR data in the continental US. A test program was created to determine whether any given pixel was land or sea.

Liam presented a proposed transparency format on the prototype shell for the science team meeting.

3. PGS TOOLKIT STUDY: J.J. Pan discussed computer languages interface tool, which is not addressed in the current PGS Toolkit Study Report, but will be needed in the interface between the shell and the Level-2 algorithms. He is also evaluating the functions of production stream file I/O tools, memory request tools, memory management tools, and data product access tools.

4. ALGORITHM DEPENDENCY DIAGRAM: J.J. Pan pointed out some changes that must be made to bring the dependency diagram into agreement with requirements from science team members. Various tables and diagrams are needed for the science team meeting.

5. MODIS LEVEL-1 EARTH NAVIGATION SOFTWARE: Paul Hubanks received the USGS software called the AVHRR Data Acquisition and Processing System (ADAPS). It consists of 910 modules, including 310 C routines. The geometric registration part of ADAPS is based on software developed at the University of Miami.

6. PROTOTYPE ALGORITHMS: Paul Hubanks has received Yoram Kaufman's Aerosol Optical Depth code and selected Mike King algorithms which currently run on MAS data. These will be checked using QAFortran and other code checkers.

7. MODIS LEVEL-1 SOFTWARE DESIGN: Tom Goff is writing comments on the PGS toolkit specifications. He also discussed the MODIS HP 9000/730 capabilities, and the use of Microsoft Project.

ACTION ITEMS:

06/12/92 [Tom Goff, Carroll Hood] Develop separate detailed schedules using Microsoft Project for Level-1A and -1B software design and development. (Refine the use of Microsoft Project so that it becomes a useful tool rather than an action item.) STATUS: Open. Due Date: 07/10/92

07/31/92 [Tom Goff, Ed Masuoka, Al Fleig] Develop the purpose and requirements for a packet simulator. Get more information on the packet simulator being developed by SBRC. (An updated requirements specification was included in

the handout on 09/04/92. A copy, with a cover letter, should be sent to Jerry Hyde of SBRC for coordination with their requirements. Tom arrange a meeting with Ed and Al.) STATUS: Open. Due Date: 09/04/92

10/02/92 [Team] Prepare presentation materials for the MODIS Science Team Meeting. STATUS: Open. Due Date: 10/16/92