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m: L Carpenter

MODIS.DATA.TEAM

oj: MODIS SDST Minutes 05/29/92

MODIS Science Data Support Team (SDST) Meeting Minutes 05/29/92

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XT MEETING: Date Time Building Room
Friday, June 5 10:00 am 22 G95

PICS:

MODIS AIRBORNE SIMULATOR (MAS): Liam Gumley described ground tests of the MAS done at Ames on 5/22 viewing ice water through the IR channels and a darkened black target to check the visible/near IR channels. The Field Data System (FDS) was used to read the tape, revealing a problem with control of the on-board Exabyte recorder. Each time the recorder was turned off and then back on, it started recording at the beginning of the tape. It was recommended that the recorder remain powered on during flight to avoid loss of data.

Additional data from channels 8 and 11 were found to be considerably noisier than any of the other channels. Plots of the counts were included in the report.

ER-2 leaves for the Azores on 5/29 via Wallops Island. Plans are to acquire data on both legs of the flight.

FDS was shipped to Terceira on 5/27, and should arrive on 6/01. Liam leaves for the Azores on 5/29, returning on 6/12.

MODIS LEVEL-2 PROCESSING SHELL DESIGN AND DEVELOPMENT: J.J. Pan presented a draft list of tasks and a schedule for the MODIS Level-2 Processing Shell design and development. The start date should be moved up from 10/92 to the present. The shell must be ready, robust, highly flexible, and unbreakable. The interdependencies among the algorithms must be thoroughly understood and taken into account, especially in providing for exceptional cases.

Risk analysis is needed to identify potential problems and their impacts. Example risks are:

- o Delivery of the Level-2 Processing Shell will be delayed if the PC Toolkit is not available when needed.
- o Delivery of the Level-2 Processing Shell will be delayed if the PC Toolkit does not function properly.
- o Major revisions of the Level-2 Processing Shell may be required

fundamental changes are made to algorithm concepts.

- Revisions of the Level-2 Processing Shell will be required. Ancillary data requirements are changed.
- The Level-2 Processing Shell will not function properly if fallback procedures for missing or bad ancillary data are not specified by the Team Member.
- The Shell design will be less than optimal if the PGS configuration is not available and understood.

Level-2 Processing Shell development will require extensive iteration with the Science Team. Interface control documents are needed especially for the interface between the shell and the algorithms. A very early requirements review is needed. All SDST requirements in connection with the Shell development must be made known to the Project and the Science Team.

TRIP TO MIAMI: Al Fleig reported on his trip to Miami to review activities of the MODIS Ocean Team (MOT) and the interfaces with SDST. Al took copies of the latest draft versions of the MODIS Software and Data Management Plan and the MODIS Team Leadership Computing Facility Plan. These were well received and appreciated. There were good constructive comments. The MOT would like the SDST to generate a set of guidelines to TMs on what they should do.

ACTION ITEMS:

24/92 [Lloyd Carpenter] Prepare the Team Leader's Software and Data Management Plan for review. (The latest draft version was distributed at the meeting on May 8, 1992 and provided to the Miami TMs on 5/20.) STATUS: Open. Due Date: May 10, 1992.

4/24/92 [Lloyd Carpenter] Prepare the Team Leader's Science Computing Facility Plan for review. (The latest draft version was distributed with the handout at the May 1st meeting and provided to the Miami TMs on 5/20.) STATUS: Open. Due Date: May 10, 1992.

24/92 [Tom Goff] Develop a detailed schedule through to the delivery of Version 1 to the DAAC for Level-1A and -1B software design and development, identification of risk areas in Level-1A and -1B design, and prototyping of risks. (A task list was included in the handout.) STATUS: Open. Due Date: 05/22/92

24/92 [J. J. Pan] Develop a detailed schedule for the Level-2 Processing Shell design and development, identification of risk areas in the Level-2 Processing Shell design and development, and prototyping of risks, through to the delivery of Version 1 to the DAAC. (A preliminary outline and schedule were included in the handout and discussed at the meeting.) STATUS: Open. Due Date: 05/22/92

24/92 [J. J. Pan] Develop a detailed schedule for a typical algorithm integration into the Level-2 processing shell. STATUS: Open. Due Date: 06/05/92

24/92 [Lloyd Carpenter & Team] Develop a staffing plan for the accomplishment of the tasks shown on the schedule. STATUS: Open. Due Date: 06/12/92