EOSDIS — ESDIS Project Status

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MODIS Team Meeting

September 29, 1993

EOSDIS — Introduction

- **Highlights**
- **EOSDIS Core System (ECS) Status**
- **ECS - Post-SRR Actions**
- **Focus Teams**

EOSDIS	Highlights	EOS

- EOSDIS Core System (ECS) System Requirements Review held (more about this later in the talk)

- EOS Data and Operations System (EDOS) proposals under evaluation - current planned award - December 1993

- Independent Validation and Verification (IV&V) proposals under evaluation - current planned award - February 1994

- Ecom Design Progressing; technology options under evaluation - System Design Review planned for December 1993

EOSDIS	Highlights (Continued)	EOS

- **Version 0 development and operations progressing**
  - Science Data Plan (Version 2.0) released (June 1993)
  - On-going user services at DAACs
  - Cross-DAAC inventory search and browse prototypes demonstrated with "logically distributed" Information Management System with 7 DAACs
  - Guide prototype demonstrated - provides convenient capabilities for users to search through documentation and tools to aid in producing searchable documents
  - CEOS Catalog Interoperability Experiment (CINTEX) prototype demonstrated

- **Focus teams (DPFT, DOAFT, SOFT and MOFT) have held several meetings**

  - Purpose of focus teams is to to ensure inputs from all interested users and developers with a "stake" in EOSDIS

EOSDIS | EOSDIS Core System -Status

- Contract awarded to Hughes Applied Information Systems (HAIS), Inc. on March 30, 1993.

- Project Management Review - June 3, 1993

- Held workshop with V0 tirekickers, LaRC DAAC, Project and HAIS to compare V0 IMS, LaRC IMS and HAIS' "Alpha System"- HAIS redirected to ensure "leap forward" from V0 in prototypes to be released for user feedback

- Prototyping Results Review - August 4, 1993

- Technology evaluations - on-going meetings with vendors, establishment of Science and Technology Laboratory

EOSDIS | EOSDIS Core System -Status (continued)

- HAIS Participated in DAAC User Working Group meetings

- HAIS met with instrument investigator teams to discuss tool-kit specifications

- Established Recommended Requirements Data Base (RRDB) to accept suggestions / requirements / ideas / gripes from users; available via Internet [telnet 192.150.28.17]

- Provided a number of documents including ECS Requirements Specifications, Operations Concept, and draft Interface Requirements Documents

- Staffing up and training new personnel to prepare for the major developmental effort of ECS

EOSDIS

EOSDIS Core System
Post-SRR Actions (Partial list)

- Provide clear demonstration of requirements for evolution and being able to accommodate changes in user needs and technological advances

- Develop complete user/data models and scenarios validated through interactions with users

- Analyze and validate functional and performance requirements based on models and scenarios

- Develop stronger link between user scenarios and operations concepts

- Evaluate impact of increased processing and storage requirements

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EOSDIS

MODIS
Processing and Storage Requirements

	ECS Spec (EOS-A only) July '91	Pre-Survey (AM & PM) May '93	Post Survey (AM & PM) Sept. '93
MFLOPS	164	1,500	11,000
GB/day	385	716	1,586

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EOSDIS | Focus Team Meetings

- **Data Processing Focus Team**
  - June 23-24, 1993 - Continued discussion of standards and toolkits
  - September 16-17, 1993 - SRR RIDs
- **Data Organization and Access Focus Team**
  - June 29-30, 1993 - User/Data Model, Data Pyramid, Data storage and distribution issues
  - September 16-17, 1993 - SRR RIDs
- **Science (Data Planning and) Operations Focus Team**
  - August 24-25, 1993 - Operations Concepts, Version 0 Interfaces, Requirements Specifications
  - September 16-17, 1993 - SRR RIDs
- **Mission Operations Focus Team**
  - June 2, 1993 - "kick-off" and organizational meeting
  - June 30, 1993 - Tracking changing requirements; Ops teams' responsibilities (Spacecraft developer and ECS); space needs at EOC for pre-launch and early orbit activities; TDRSS/SN utilization policy; Ops support scenarios
  - September 16-17, 1993 - SRR RIDs