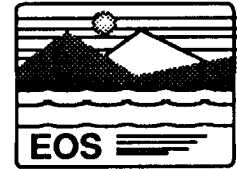


EOSDIS



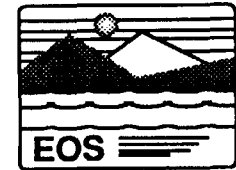
**Earth Observing System (EOS)
Data and Information System (EOSDIS)**

Project Status

Briefing to MODIS Science Team

**Earth Science Data Information System
(EDIS) Project
NASA/Goddard Space Flight Center**

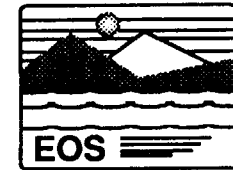
May 2, 1995



- Project Status**
 - Science Software Integration
 - EOSDIS Networks
 - Organization
 - EOS Reshaping Studies

- Schedule**
 - AM-1
 - Overall EOSDIS

- Issues/Challenges**



Science Software Integration

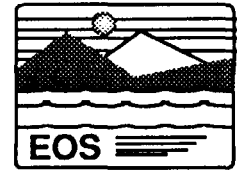
- **Held first quarterly review of science software for AM-1 instruments (with AM-1 Project)**
- **Held Science Software Integration & Test Workshop with Instrument Team software developers and DAACs to develop procedures appropriate for each Instrument Team and DAAC**

EOSDIS Networks

- **Completed analysis of alternatives to consolidate Ecom (EDOS - DAACs) and EOSDIS Science Network (DAAC - DAAC)**
 - **Project/NASCOM/Hughes/SEAS/Code 520 team has developed options and presented to Project Management**
- **Network has been simplified through relaxation of data latency and RMA requirements in 1994 Rebaselining**

EOSDIS

Science Software Integration & Test (SSIT) Workshop Results



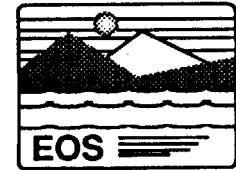
Purpose: To bring DAAC and Instrument Team (IT) personnel together in individual splinter groups to discuss and delineate the science software integration procedures and deliverables.

EOSDIS Results/Issues:

- **DAACs and Instrument Teams defined dates by which they plan to complete their science software integration and test (I&T) procedures document**
- **Release A ECS availability at NSIDC and EDC DAACs to support MODIS will be examined**

EOSDIS

**Science Software Integration &
Test (SSIT) Workshop Results
(cont)**

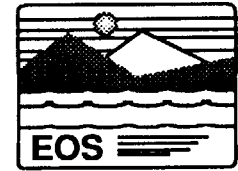


MODIS/GSFC DAAC Results/Issues:

- **Science software I&T procedural steps reviewed and modified**
- **GSFC DAAC will be available for pre-acceptance testing by MODIS Instrument Team. Schedules need to be worked.**
- **Follow-up meetings scheduled for review and writing assignments of MODIS/GSFC DAAC science software I&T procedures agreement.**
- **Draft MODIS/GSFC DAAC science software I&T agreement due: 6/1/95. Final due: 10/1/95.**
- **Need to identify ECS training for IR-1 and GSFC DAAC staffing support for beta science software delivery.**
- **Need to identify when science software I&T tools will be available.**

EOSDIS

EOSDIS Science Processing Status/Issues Being Tracked (MODIS Related)



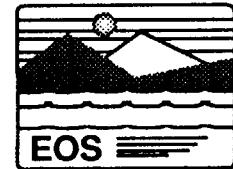
- **Toolkit 5 delivery July 31. Future Toolkit deliveries being scheduled to provide complete HDF and Symmetric Multi-Processing (SMP) functionality.**
- **Bob Evans product generation scheduling requirements being examined.**
- **BONeS Dynamic Modeling - MODIS Level 1 and Level 2 processing modeled; Level 3 being worked.**

Two trade studies:

- **Increasing Level 2 granularization from 2.5 mins to 25 mins reduces resource strain on system (assuming algorithms can do this.)**
- **Reducing (combining) number of Product Generation Executables from ~20 to 3 reduces pressure on the scheduler but not the archive requirements.**

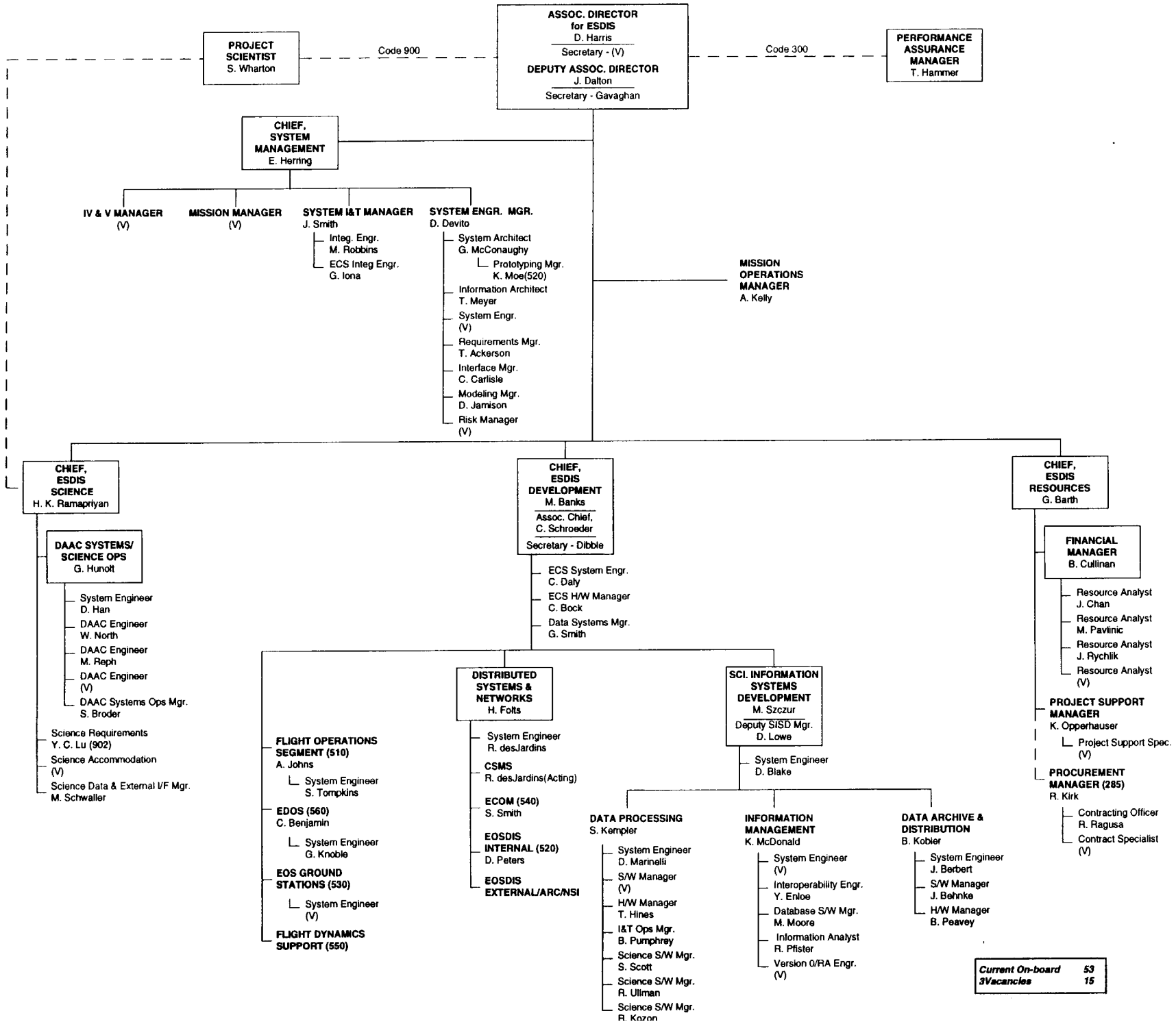
EOSDIS

**EOSDIS Science Processing
Status/Issues Being Tracked
(MODIS Related)
(cont)**

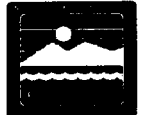


- **MODIS ancillary data questions addressed:**
 - **ECS will convert most NOAA data to HDF**
 - **HDF tools can then be used by ITs to subset the data by parameter and time.**
 - **Instrument team ancillary data preprocessing software can be run as part of the ancillary data ingest process at the DAAC.**
 - **Software module header concerns: requested flexibility for adding information to header is largely standard.**

Earth Science Data & Information System Project (ESDIS)

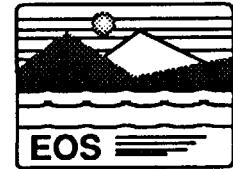


Current On-board 53
Vacancies 15



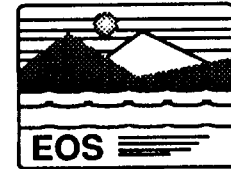
EOSDIS

Organization



- **Positions filled:**

- **Deputy Manager for Science Information Systems Development (Dawn Lowe)**
- **Interface Manager (Candace Carlisle, replacing Lee Smith)**
- **Distributed Systems and Networks Manager (Hal Folts)**
- **Integration and Test Engineer (Michael Robbins)**
- **ECS Integration and Certification Manager (Glen Iona)**

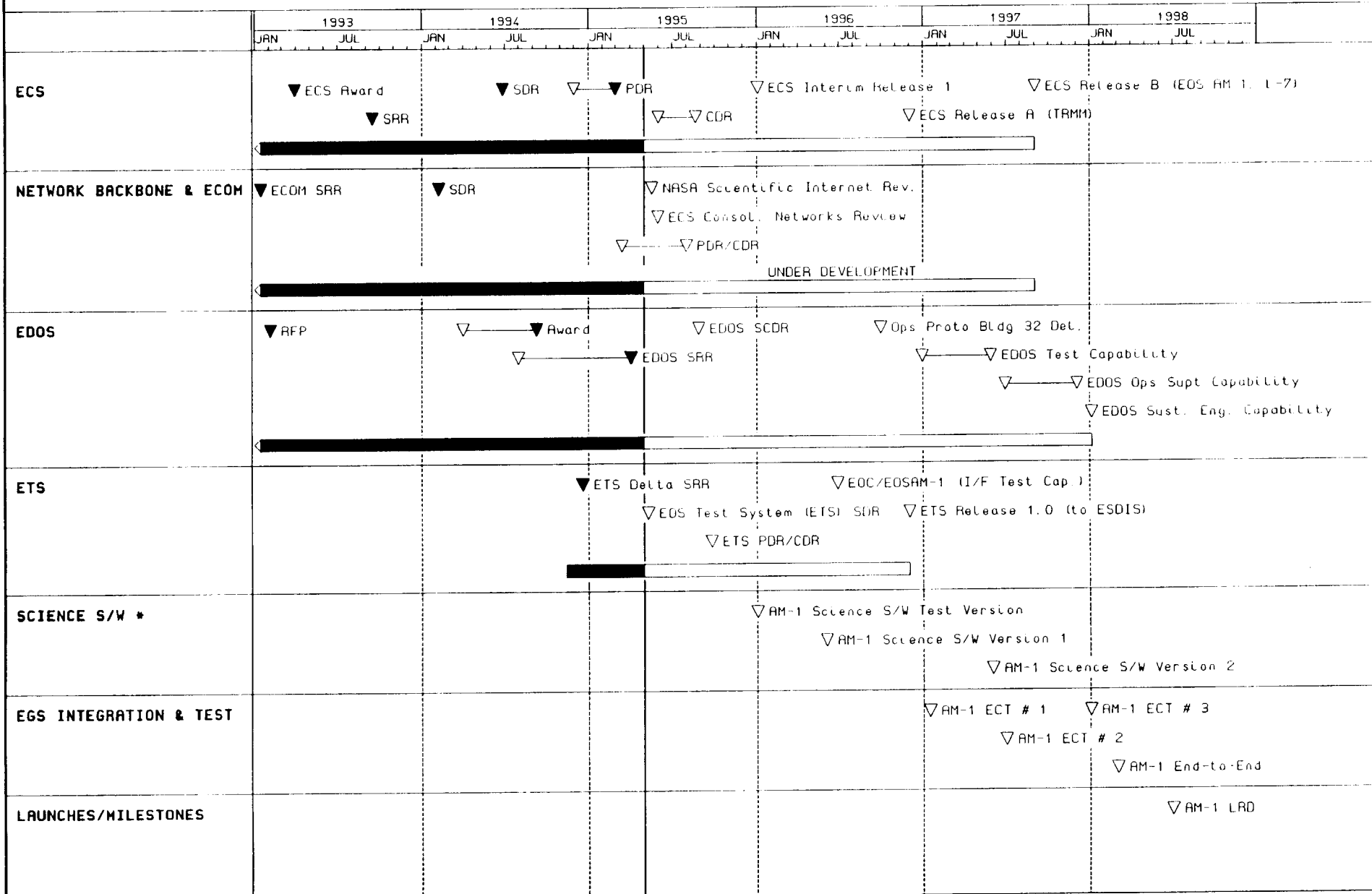


- **Initiated EOS reshaping studies:**
 - **Small spacecraft technology for missions after AM-1, PM-1, and CHEM-1**
 - **EOSDIS initiatives to simplify flight/ground system to reduce cost**
 - **incorporate changes in spacecraft to simplify Level 0 processing and enable automation of spacecraft operations**
 - **Synergy with NOAA spacecraft and data centers**
 - **Preparation for NASA workshop in July**

GODDARD SPACE FLIGHT CENTER

ESDIS SUPPORT FOR AM-1 LAUNCH MASTER SCHEDULE

ORIG APPROVAL 11/30/93
 LAST CHANGE 03/31/95
 STATUS AS OF 05/01/95

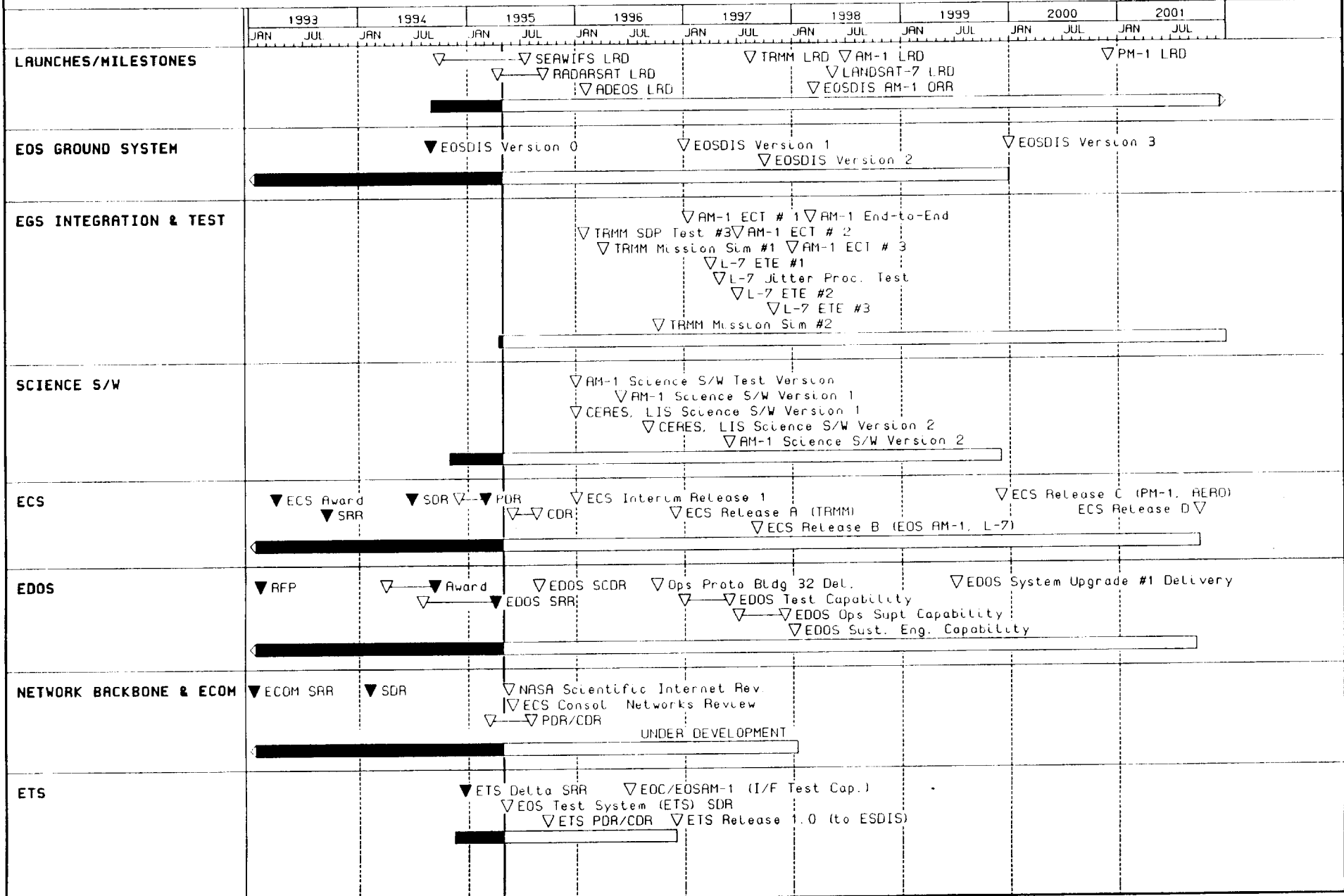


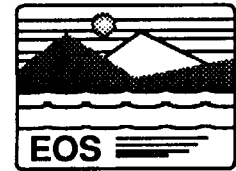
* Delivery dates currently being negotiated.

GODDARD SPACE FLIGHT CENTER

EARTH SCIENCE DATA & INFORMATION SYSTEM

ORIG APPROVAL 11/30/93
 LAST CHANGE 03/31/95
 STATUS AS OF 05/01/95





- 1. Continued scrubbing of derived requirements across EOSDIS to minimize costs for functions less critical for support of science user operations and to maximize science data product generation and access**
- 2. Effective communication of an EOSDIS cost model to science community**
- 3. ECS schedule to support AM-1 and Landsat-7**
- 4. Ecom changes:**
 - Delay in PDR/CDR to Consolidate Ecom and EOSDIS Science Network and revert to router-based design from ATM**
- 5. EDOS schedule delays due to EOS Program Rebaselining**