

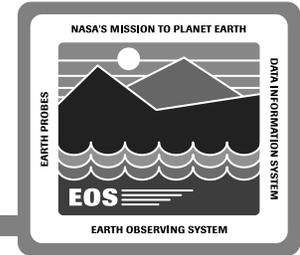
Test Data/Tools

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5 August 1996

Data and Tools Topics



Test Data

Approach for Test Data Acquisition

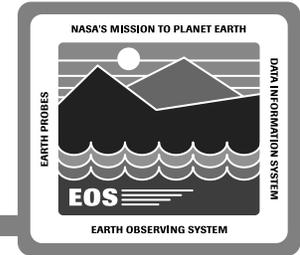
Test Data Currently Available

Test Data Still Needed

Test Data Set Management

Tools Supporting Release A Testing

Approach for Test Data Acquisition



Use simulator for most data types

Acquire real data wherever possible

The Test Data Team includes representatives from:

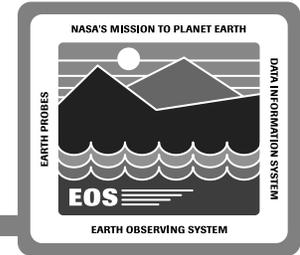
- ESDIS, ECS Release A and B I&T, IATO, ECS Science Office**
- IV&V, EDOS**

Test data team has been working with the instrument teams

Participated in recent Data System Working Group (DSWG)

- ESDIS and ECS Science Office designated as contact entities**

Approach for Test Data Acquisition (cont.)



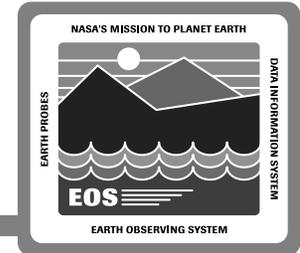
TSDIS Data Generator to produce simulated TSDIS data in-house

Rel A acceptance test plans call for large numbers of test data sets for TSDIS Ingest test (> 2000 individual files)

- **External sources are unlikely to be able to fulfill these high test data set requirements**
- **An ingest data file metadata editing utility developed by IATO will be used to create the required ingest data sets from the acquired representative data files**
- **Only the metadata is accessed and processed during ingest**
- **Changing key metadata parameters will enable the creation of many simulated data sets from the acquired representative files**

TSDIS simulator will be used to send this test data to ingest

Test Data Currently Available



CERES Level 0 and several CERES PGEs

- also ERBE S-4G and AVHRR data sets

Ancillary data sets plus metadata

- Orbit and Attitude data
- NMC and NCEP data sets from NOAA
- Some but not all precipitation data types

Level 1B of VIRS, TMI, and PR

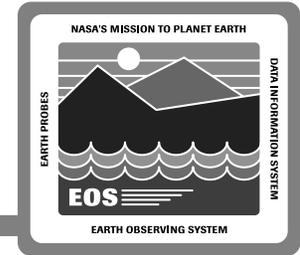
AM-1 science data: MODIS PGEs, MISR L1A & L1B data

SAGE II, XTE, TOMS data sets

- used for population of archive for more realistic search and order testing

Science algorithm delivery packages including documentation

Test Data Still Needed



CERES higher level products, plus metadata (need by Sept. 1, 1996)

- **Working with CERES Instrument Team**
- **Workaround possible with simulated header files and metadata**

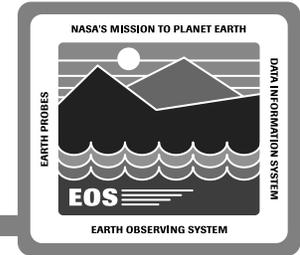
TRMM science data (TSDIS simulator as a backup, need by Sept. 1, 1996)

- **VIRS L1A**
- **PR L1A, L1C, L2A, L3A**
- **TMI L1A, L2A, L3A**
- **GV L1B, L1C, L2A, L3A**

AM-1 science data for early EDOS interface testing

- **MISR, MODIS, MOPITT Level 0 data, ASTER L1A & 1B**
- **Simulated header files and metadata as a backup**

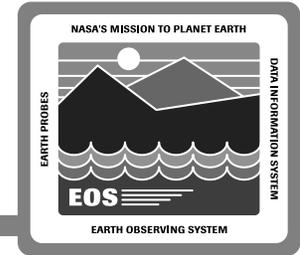
Test Data Set Management



Test Data Set Management - Baselineing and controlling test data sets

- All test data sets will be placed under configuration control upon receipt
- ClearCase will be used for data set management, but not for storage of data

Tools Supporting Release A Testing



Release A testing uses:

- RTM
- ClearCase
- DDTS
- XRunner/ LoadRunner
- Pure Coverage
- TSDIS Data Generator with metadata editing utility
- ECS Metadata Generator
- TSDIS Simulator