

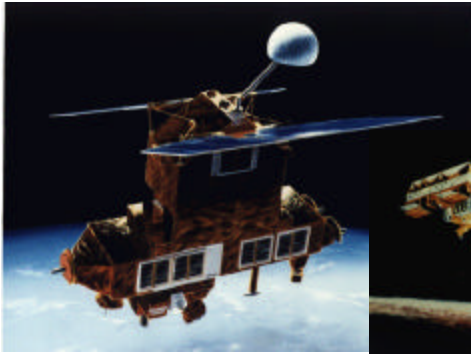
ATMOSPHERIC SCIENCES DATA CENTER

Earth Radiation Budget Experiment (ERBE) Digital Library (DL)

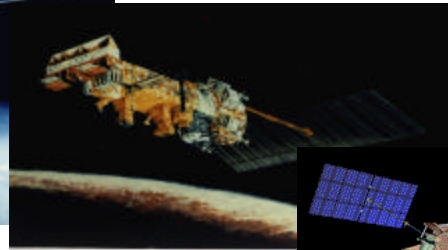
Michelle Ferebee, Mike Little - NASA Langley Research Center
Kathryn Bush, Greg Boeshaar, Judy Hertz - SAIC

28th CERES Science Team Meeting
May 6-8, 2003

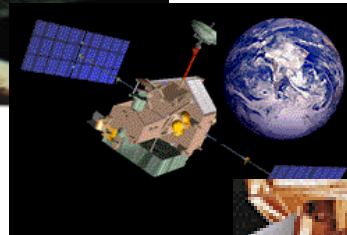
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ERBE (LAUNCHED: 1984)



NOAA 9, 10 (1984, 1986)



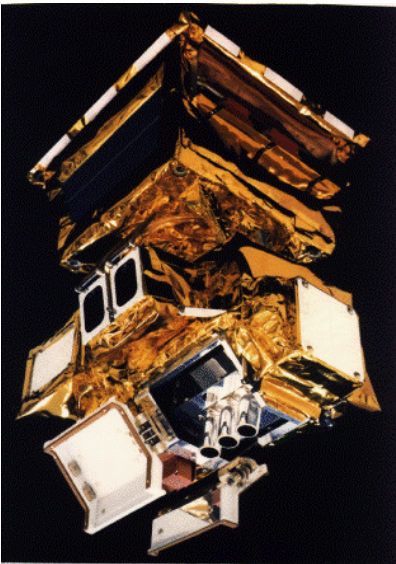
TRMM (1997)



TERRA (1999)



AQUA (2002)



ORIGINAL
ERBE
SCANNER

POTENTIAL FUTURE
INSTRUMENT CARRIERS:
NPP
NPOESS

ERBE HAS LONG SPACE-BOURNE LEGACY OF EARTH OBESERVATIONS

ERBE DL Goals

- Long-term preservation of a comprehensive information environment
- Provide knowledge to the scientific community for future use in defining climate data records.
- Centralization of 25 years of scattered information elements
- Facilitate identification and interpretation of ERBE data by climatologists
- Create a model to preserve similar information for other instrument teams

ERBE Data Environment

Twenty five years of ERBE data

- Narrative information provides a context for the data products
 - Science reference manuals and calibration reports
 - Operations reports and manuals
 - Meeting minutes
 - Published papers
- Twenty boxes of ERBE information
 - Paper documents
 - microfiche

ERBE DL System

- Developed initial requirements for system function and features
- Developed prototype DL using Commercial product
- Iterative user testing for requirements refinement and prototype improvement
- Preservation strategy involving migration of derivatives and a master digital format

ERBE DL Status

- Began cataloging paper documents, microfiche, electronic files
- Scanned 10,000 representative pages of ERBE information into pdf files
- User prototype testing continues to provide feedback on search features, metadata, digital formats, and workflow

Next Steps

- Validate results of prototype and refine system design
- Select Open Source Software for final DL
- Complete cataloging of paper documents and microfiche
- Complete Scanning activity
- Ingest pdf files and metadata into DL
- Determine disposition of paper documents and microfiche that have been scanned

Use of Data from the Atmospheric Sciences Data Center

Acknowledgments:

When data from the ASDC are used in a publication, we request the following acknowledgment be included:

"These data were obtained from the NASA Langley Research Center Atmospheric Sciences Data Center."

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Redistribution of Data:

To assist the ASDC in providing the best service to the scientific community, we request notification if you transmit these data to other researchers.