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

m.t.ferebee@larc.nasa.gov
ERBE (LAUNCHED: 1984)

NOAA 9, 10 (1984, 1986)

TRMM (1997)

TERRA (1999)

AQUA (2002)

POTENTIAL FUTURE INSTRUMENT CARRIERS:

NPP
NPOESS

ERBE HAS LONG SPACE-BOURNE LEGACY OF EARTH OBSERVATIONS
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."

Reprints Please!

The ASDC requests a reprint of any published papers or reports or a brief description of other uses (e.g., posters, oral presentations, etc.) of data that we have distributed. This will help us determine the use of data that we distribute, which is helpful in optimizing product development. It also helps us to keep our product-related references current.

Please contact us at larc@eos.nasa.gov for instructions on mailing reprints.

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.