

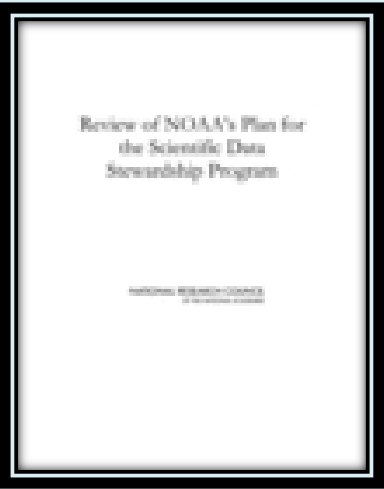
Environmental Data Management at NOAA: Archiving, Stewardship, and Access

Committee on Archiving and Accessing Environmental and Geospatial Data at NOAA

National Research Council, 2007

PRINCIPLE #6: Data and metadata require expert stewardship

Data stewardship encompasses all activities that **preserve** and **improve** the information content, **accessibility**, and **usability** of data and metadata.



Review of NOAA's Plan for the Scientific Stewardship Program

Committee on Climate Data Records from NOAA Operational Satellites

National Research Council, 2005

Long-term CDR stewardship is important

- **Stewardship** of the scientific data
- **Scientific vigilance:** Scientists provide oversight of data stewardship

OSTP Memo

Office of Science and Technology Policy

Feb 22, 2013

Subject: Increasing Access to the Results of Federally Funded Scientific Research

Principles: made **available** and **useful** for the public, industry, and the scientific community.

Non-Functional Requirements on Climate Data Records

(No Particular Order)

Preserved

Usable

Sustainable/Extensible

Accessible

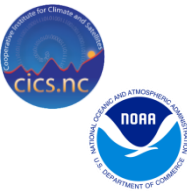
Secure

Transparent/Traceable

Credible

Useful

Assessed/Improved



Information Quality Act (Publ. Law 106-554, 2001)

- OMB to provide policy and guideline for ensuring and maximizing the **quality, objectivity, utility, and integrity** of information

OMB (Office of Management and Budget) Guidelines (2002)

- **Data quality**, objectivity, and integrity (**security** of information)
- **Transparency** – high degree for influential information
- **Reproducibility**

NOAA Administrative Order 212-15 (2008)

Management of environmental and geospatial data and information

- Include **end-to-end data stewardship** in data management planning
- Take appropriate steps to ensure **acceptable accuracy, precision, representativeness, documentation, and long-term continuity** of NOAA's quality data sets for the user community

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