



# RBAA's Climate Database Modernization Program:



# Preserving Marine History

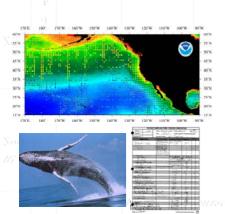
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### NOAA/NCDC/CDMP/SOURCECORP



NOAA's Climate Database Modernization Program (CDMP) is managed by the National Climatic Data Center (NCDC). CDMP is dedicated to preserving global climate and environmental data. With a commitment to making data available online for research, CDMP supports one of NOAA's core missions to archive, store and provide public access to valuable historical data, which without preservation, could be lost forever. By working with various national and international agencies, a wide variety of rescue projects has been ongoing since CDMP's inauguration in 2000. Although CDMP preserves many kinds of environmental data, the program continues to faithfully support the global marine community by locating, imaging and keying historical and current marine records and merging the data into national and international databases.

### Sample marine/ocean projects:



Zooplankton blomass values (top) as keyed in CDMP's Plankton Data Rescue project in cooperation with NOAA's National Marine Fisheries Service (MMFS). Other projects with MMFS include digitization of humpback whale sighting and movement data (bottom left); digitization of historical fish landings, Bering Sea Crab surveys, groundfish surveys (bottom right), and data recovery on cetaceans.



Logbook image from the East India Company Ship 'Berwickshire'. CDMP is currently involved in an international effort to digitize East India Company logbooks held at the British Library.



Swedish lightship sample log from a project with NOAA's National Oceanographic Data Center (NODC) to image and key surface, profile, and meteorological lightship data from Findan and Sweden. Other projects with NODC include preservations of Coast and Geodetic Survey motion pictures and California Coastal Marine Ecosystem Survey slides.



Adolf Lindenkohl's original watercolor of specific gravity in the Bering Sea and North Pacific Ocean. CDMP is working with the US Library of Congress to image the Coast and Geodetic Survey Library and Archives Collections.

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Working with NOAA's National Ocean Service, data such as historic US coastal high and low water levels are being keyed as well as historic US Great Lake water levels (left). CDMP also assists in a collaborative effort to rescue shoreline data and produce Geographical Information Systems (GIS)-compatible data in vector and georeferenced raster formats for use with visualization tools such as the NOS Data Explorer (center and right).

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In order to preserve historic observing practices and metadata, CDMP images various reference manuals and instructional materials for observers, past and present. Pictured from left to right: International Ship Code Reference Sheet (Netherlands Cetters) Microber 14, 1997.

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Many different items are being preserved from the Thunder Bay National Marine Sanctuary and Underwater Preserve Research Collection. Through this imaging task, nearly 27,000 ship blueprints (top left), enrollment certificates with metadata (top right), photographs (bottom left), negatives, and slides are being preserved.

Background Image: Weather observations made by Captain R.W. Foster aboard the ship "Garrick", July 1854, on his voyage from New York to Liverpool. The logbook entry is from an 1855 publication by Admiral M.F. Maury, imaged by CDMP as part of the rare books collection.

## Making data available online:



Web Search Store Retrieve Display (WSSRD) is a web database developed by Information Manufacturing Corporation (IMC) for displaying document images over the Internet. WSSRD contains images of original weather records, documents, rare books and environmental photographs. Images are designated to appropriate cabinets for storage and viewing.



Partnering with four private sector contractors, CDMP has placed approximately 52 million images online and are now available to researchers around the globe.



Sample image from the Maury Journal (German) Cabinet as viewed in WSSRD. Access is used and password protected.

For access, please contact Cynthia.B.Karl@noaa.gov











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