

World Ocean Database 1998

CD-ROM Scientific Data Sets

The Ocean Climate Laboratory (OCL) of NOAA's National Oceanographic Data Center (NODC) has completed the first major phase of a project to update previous releases of global oceanographic data. *World Ocean Database 1998* (WOD98) expands on *World Ocean Atlas 1994* (WOA94) by including the additional variables nitrite, pH, alkalinity, chlorophyll, and plankton, as well as all available metadata and meteorology. WOD98 is an International Year of the Ocean product.

During the past three years, the number of data sets received at NODC/WDC-A (National Oceanographic Data Center/World Data Center-A for Oceanography)

substantially increased as a result of the Intergovernmental Oceanographic Commission (IOC)/NODC Global Oceanographic Data Archaeology and Rescue project (GODAR), the OCL Global Ocean Database project, and the Global Temperature Salinity Pilot Project (GTSP). Figure 1 shows the distribution of the data high resolution CTD data in WOD98.

The WOD98 is comprised of five CD-ROMs containing profile and plankton/biomass data in compressed format. WOD98-01 through WOD98-04 contain observed level data, WOD98-05 contains all the standard level data.

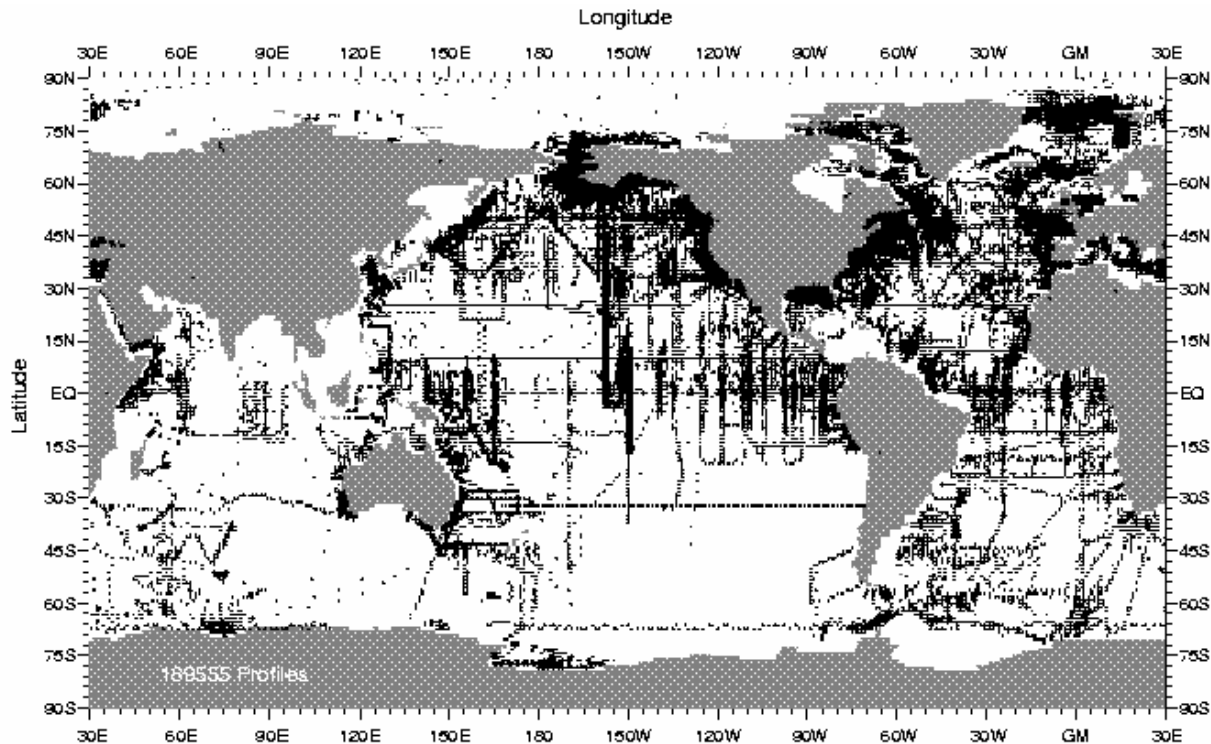
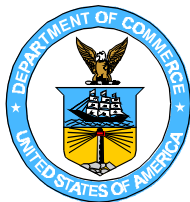


Figure 1. WOD98 CTD Profile Distribution



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 National Oceanographic Data Center
 Ocean Climate Laboratory

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Contents in the WOD98 CD-ROMs

WOD98-01 contains observed level data for the North Atlantic from 30°-90°N and includes the Mediterranean Sea, Baltic Sea, North Sea, and the Arctic Ocean from 100°W to 100°E. WOD98-02 includes observed level data for the North Atlantic 0-30°N and the South Atlantic. WOD98-03 contains observed level data for the North Pacific from 20°N-90°N including the Arctic Ocean from 100°E-100°W. WOD98-04 contains observed level data for the North Pacific 0-20°N, the South Pacific Ocean, the Indian Ocean, Red Sea, and Persian Gulf. Figure 2 shows the geographic content of WOD98-01 through WOD98-04.

The data are organized by ten-degree latitude-longitude squares numbered using the WMO ten-degree square numbering scheme. Within each of the WMO subdirectories are the following files:

- **NBD** NODC archived bottle data and low resolution CTD: contains temperature, salinity, oxygen, phosphate, silicate, nitrite, nitrate, and pH data;
- **BD** Bottle data and low resolution CTD received from projects - contains temperature, salinity, oxygen, phosphate, silicate, nitrite, nitrate, pH, chlorophyll, alkalinity, and plankton biomass and taxonomic observations;
- **BIO** Plankton data received from projects: contains only plankton biomass and taxonomic observations;
- **NCT** NODC archived high resolution CTD data: contains temperature, salinity, oxygen and pressure data;
- **CTD** High resolution CTD data received from projects: contains temperature, salinity, oxygen, chlorophyll, and pressure data;
- **NMB** NODC archived MBT data: contains temperature data;
- **MBT** MBT data received from projects: contains temperature data;

- **NXB** NODC archived XBT data: contains temperature data;
- **XBT** XBT data received from projects: contains temperature data;

The project data are in separate files since they had not yet been archived at the NODC at the time WOD98 was prepared.

All the standard level data are on WOD98-05. Within each WMO square are eight files containing the data associated with each probe or instrument type (the data in BIO do not have standard levels).

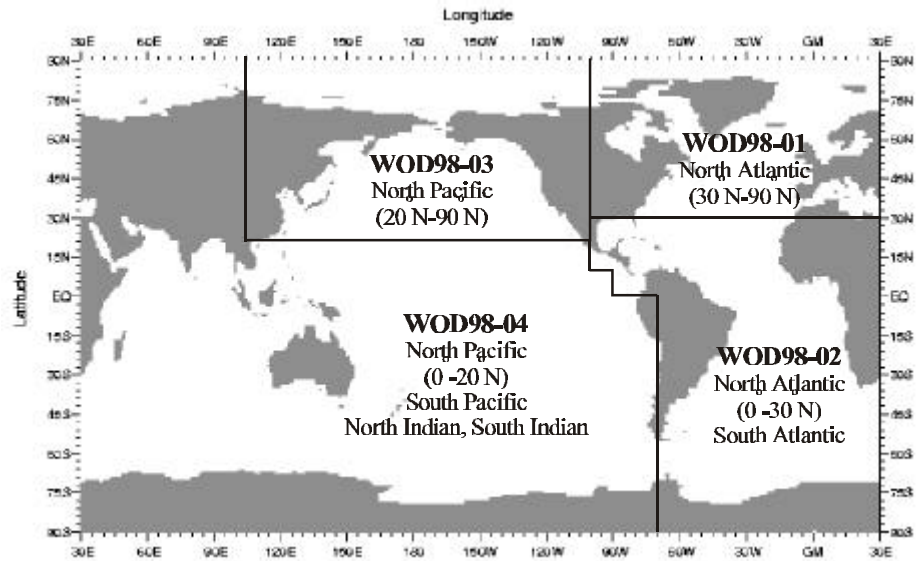


Figure 2. Geographic location for WOD98-01 through WOD98-04

CD-ROM Documentation

Each CD-ROM contains two files (a “README.TXT” file, which describes the contents of the CD, and a “WMOTOT.TXT” file, with tallies of the amount of Kbytes/instrument for each WMO) and five directories named:

- **CODES** - contains codes associated with the secondary header, biological header, and taxa data;
- **DATA** - contains the data;
- **DOC** - contains the documentation;
- **PROGRAMS** - contains sample programs for reading the data;
- **UTILS** - contains the utilities necessary to decompress the data.

Updates to WOD98 will be posted in: <http://www.nodc.noaa.gov/OCL/oceancl.html>. These updates will include “Frequently Asked Questions about the WOD98”, “WOD98 Errata”, “WOD98 Corrections. In addition, the documentation, code tables, programs, and utilities are located at this site.

World Ocean Database 1998 version 2.0



Update News Flash!!

World Ocean Database 1998 Version 2 is an updated version of World Ocean Database 1998 (WOD98) released May, 1998. Since the first release of WOD98, the staff at the Ocean Climate Laboratory (OCL) have performed additional quality control on the database and placed corrections to the data on the OCL web page. (<http://www.nodc.noaa.gov/OC5/cor98.html>)

All on-line corrections to the data have been incorporated into this version of WOD98. In addition, the World Ocean Circulation Experiment (WOCE) Version 1.5 CD-ROM Hydrographic data were added.

There are two products from WOD98v2: the CD-ROM data which are geographically-sorted, and the online data which are time-sorted.

To facilitate the use of WOD98v2, the Ocean Data View (ODV4.0) software developed and distributed by Dr. Reiner Schlitzer of the Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany is included on CD-ROM (only). This software will decompress files from WOD98 and allow the user to plot scatter or station plots of selected areas or cruises, property-property plots, and many other data viewing utilities like property distributions along sections or on surfaces.

WOD98v2 CD-ROM contents (Geographically-sorted)

WOD98v2 Documentation

WOD98v2 Code Tables

WOD98v2 Programs

WOD98v2 Utilities

WOD98v2 Online (Time-sorted data)

invent - Netscape

File Edit View Go Communicator Help

World Ocean Database 1998 version 2.0 (Time-sorted online data)

If you want to download a **specific data type** for **all time periods**
 Check here to get **data type** option list (e.g. BD - bottle data from 1800, 1900-1933).

If you want to download data for a **specific time period**
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WOD98 Inventory

Data Type Description

BIO		x						x	x		x			
CTD						x	x	x	x	x	x	x	x	x
NCT				x	x	x	x	x	x	x	x	x	x	
XBT				x	x	x	x	x	x	x	x	x	x	
NXB				x	x	x	x	x	x	x				
MBT				x	x	x	x	x	x	x	x	x	x	
NMB				x	x	x	x	x						
NBD	x		x	x	x	x	x	x	x					
BD	x		x	x	x	x	x	x	x	x	x	x	x	x

1800,1900-33 1934 1935-40 1941-65 1966 1967 1968 1969-90 1991 1992 1993 1994 1995-96 1998

Document: Done

Data Type Description:

- BIO** Plankton data received from projects
- CTD** High resolution CTD data received from projects
- NCT** NODC archived high resolution CTD data
- XBT** XBT data received from projects
- NXB** NODC archived XBT data
- MBT** MBT data received from projects
- NMB** NODC archived MBT data
-
- NBD** NODC archived bottle data and low resolution CTD
- BD** Bottle data and low resolution CTD received from projects

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• WOD-98 - Disk 2 - Observed level profile data for the North Atlantic 0°-30°N and South Atlantic	\$75.00 / \$55.00		
• WOD-98 - Disc 3 - Observed level profile data for the North Pacific 20°-90°N	\$75.00 / \$55.00		
• WOD-98 - Disc 4 - Observed level profile data for the North Pacific 0°-20°N South Pacific and Indian Oceans	\$75.00 / \$55.00		
• WOD-98 - Disc 5 - Standard level data for all ocean basins	\$75.00 / \$55.00		
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