

## **World Ocean Database 2009 (WOD09) Data DVD.**

The following information describes the structure and contents of the WOD09 DVDs.

**CODES** - contains code tables necessary to use WOD09 data.

**DATA** - all data are gzip compressed and stored in WOD native ASCII format. The WOD09 resides on two DVDs. Disk one contains OSD and CTD subdirectories under DATA. Disk two contains XBT, MBT, APB, DRB, GLD, MRB, PFL, UOR, and SUR subdirectories under DATA. The subdirectory names are the 3-letter representation of the dataset type (e.g., OSD, CTD, SUR) in WOD09. (See WOD09 documentation provided in the DOC subdirectory for definition of each dataset). Each data type subdirectory has two subdirectories (OBS and STD). OBS is all observed level data. STD is all data interpolated to standard levels. The surface-only (SUR) data is not provided at standard levels and is therefore not included in the STD subdirectory.

Each dataset directory contains from 1 to 107 files data files organized as one file per year (e.g., OSD01966.gz) with the exception of data prior to 1900. All data from years 1773-1899 are stored as one single file named OSD01800.gz. There is only one SUR\_ALL.gz file under subdirectory SUR, which contains all surface-only data regardless of year.

The file naming convention is DDDOYYYY.gz

Where:

- DDD is the 3-letter dataset name (equal to subdirectory name);
- O is Observed level,
- S is Standard level;
- YYYY is the 4-digit year.

When YYYY equals 1800, the included data are from years 1773-1899. All other YYYY are data only from given year.

Data are arranged in each file in chronological order (down to the hour). All files are compressed using gzip.

**DOC** - contains documentation for WOD09.

wod09\_introduction.pdf: Introduction to data in WOD09.

wod09\_documentation.pdf: Native format documentation and quality control procedures.

wod09\_tutorial.pdf: Quick reference on how to read and manipulate WOD09 data using ODV software.

**ODV** - ODV (Ocean Data View) is a program created by Reiner Schlitzer. This software accepts WOD native format and can be used to read and analyze data. Subdirectory ODV contains ODV versions for three operating systems: Microsoft Windows, Linux and Macintosh. Subdirectory Version 4.2 contains ready to be installed versions of ODV for

these operating systems. WOD09 data do not upload into versions of ODV prior to 3.1 ODV. The latest version is available from <http://odv.awi.de/>.

**PROGRAMS** - contains source code and executables for programs which are examples of how to read the data and can be used to reformat the data into comma-delimited or space-delimited forms. Explanations of programs can be found in documentation (wod09\_documentation.pdf).

**UTILS** - contains the gzip utility for uncompressing data files used in creation of WOD09.

For further information please contact the National Oceanographic Data Center, Ocean Climate Laboratory (OCL) at [OCL.help@noaa.gov](mailto:OCL.help@noaa.gov).