

# Ocean Sneaker's Tool

## Data Processing - Converting - Visualisation

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Ocean Sneaker's Tool (OST) is a freely available, newly developed, open-source software project to generate, show and visualise table-organised, geo-referenced ASCII data files. The intention of the program is to simplify data handling to more easily combine oceanographic and biological data. OST allows the option to include cruise-, station-, time-, date-, longitude-, latitude- and bottom depth-'metainformation' to your measured values.

It is even possible to preprocess data aboard with a simple program that can be directly run from USB memory-sticks on foreign computers. Due to the fact that the program is open source and written in easy understandable object-pascal all developers are invited to make this tool more powerful.

**Data import**  
 A selection of possible input formats. Several specific gear-formats are supported as well as a generic ASCII-text format that fits most possibilities and can be generated by other data processing programs.

**Data mining**  
 A set of basic data-mining functions are available. For this, selected parts of your data table can be processed by several mathematical operations like median, mean, range, standard deviation, variation coefficients, percentile proportions and several more. Specific functions for transforming stacked multinet data from individuals in a cubic meter to individuals under a square meter and Weighted Mean Depths are also available.

**Visualising**  
 The charting algorithms make it simple to select data subsets from the whole data table and to visualise them as line-, bar-, area- or polar plots.

**Geo-coded export**  
 The loaded datasets can be exported to an Ocean-Data-View specific format for further processing and visualisation. The type of the loaded data structure can be specified in several ways.

**Ocean Sneaker's Tool**

**ODV**

Available for Win 95/98/2K/XP. Runs with emulators under Mac and Linux.

The generated charts can be printed and easily be pasted into your mail-, office- or web-documents. The charts can be fully customised, rotated and parts faded out or highlighted.

OST allows to associate your data rows with a geo-coded stamp. The export routine generates a format that is understood without any further modification by Ocean-Data-View.

Ongoing developments will be fitted to future requirements and needs of users and developers.

The main application area is the exploration of data sets. Using OST one can easily carry out first analysis steps to find patterns in data structures which are less obvious.

Actual version available at:  
[www.awi-bremerhaven.de/Software/OST](http://www.awi-bremerhaven.de/Software/OST)  
 (case sensitive URL)