Salish Cruise Dataset Distributed by NANOOS-APL

Dataset Version 2023-03 (March 2023)

Data Provider

Oceanographic cruise data from the Salish Sea, primarily Puget Sound and Strait of Juan de Fuca (Washington), have been contributed by many groups. These include the Puget Sound Regional Synthesis Model (**PRISM,** http://www.prism.washington.edu/), the Washington Ocean Acidification Center (**WOAC**, https://environment.uw.edu), and the Northwest Association of Networked Ocean Observing Systems (NANOOS, www.nanoos.org), each of which were carried out by the University of Washington, Seattle, Washington, with other partners. Data distributed in this dataset package were collected by partners as illustrated in the table at: http://nvs.nanoos.org/CruiseSalish

Data Distributor

This dataset is being distributed by NANOOS-APL, the APL- UW Data Management component of the Northwest Association of Networked Ocean Observing Systems (**NANOOS**, http://www.nanoos.org).

The files are available for download on the NANOOS Visualization System (**NVS**): https://nvs.nanoos.org/CruiseSalish

Contacts

For scientific questions about the dataset, contact: *Jan Newton, Ph.D.* (NANOOS Executive Director, APL-UW), janewton@uw.edu

Dataset and Data Files

A dataset zip file *Salish_Cruise-<Cruise Year>_<Cruise Month>-Data.zip* contains this README documentation file and XLSX and CSV data files described below. Files in this zip file correspond to the data for one cruise. All files have header rows indicating variable names and variable units.

1. *SalishCruise_<Cruise Month><Cruise Year>_downcast.csv*

This file contains the downcast data collected using the CTD package and any additional sensors attached to a rosette cage deployed on a research vessel. All downcasts during the cruise are contained in this file and are sorted by station.

2. *SalishCruise_<Cruise Month><Cruise Year>_labupcast.xlsx*

This file contains the upcast data collected using the CTD package and any additional sensors attached to a rosette cage deployed on a research vessel. The upcast data corresponds to when the bottles on the rosette cage were fired, and water samples were collected. The data from the lab analysis of the water samples is also included. The sensor and bottle sample data are flagged using the flagging protocol of the World Ocean Circulation Experiment (WOCE): https://cchdo.github.io/hdo-assets/documentation/manuals/pdf/90_1/chap4.pdf All upcasts during the cruise are contained in this file and are sorted by station.

3. *SalishCruises_Variables_ReadMe.xlsx*

This file contains the variable names, description and units used in the downcast.csv and labupcast.xlsx. All data were processed using Sea-Bird Electronics data processing software. Please see the Seasoft V2: SBE Data Processing manual for a more extensive list of variables should variables in the data files be missing from the list below (available at https://www.seabird.com).