

Discrete salinity data series for cruise Belgica BG9912

Data Originator

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Content of data series

Parameter	Unit	Parameter code	Number of samples	Number of stations	Comments
Discrete salinity	PSU	PSALBSTX	42 CTD	41	none

CTD= CTD-Rosette water column sampling station.

Originator's protocol

Water samples were collected at various depths from different locations using 10-L Niskin bottles attached to the CTD Rosette sampler. The samples were placed in brown glass bottles for storage. The water samples were analysed at MUMM with a Guildline Portasal Model 8410 laboratory salinometer.

The Guildline Portasal salinometer was calibrated using IAPSO standard seawater capsules obtained from Oceanographic Scientific International Ltd. (UK). The standard seawater capsules had a reported salinity of 30.071 psu with a conductivity of 0.87348 at 27°C.

The results from the Guildline Portasal salinometer were compared to those of the Sea-Bird SBE09 CTD taken during cruise BG9912. The comparison indicated a correlation coefficient of 0.98, with a mean difference of 0.0096 ppt (standard deviation 0.037ppt). The abnormally large standard deviation is due to the stratification of the water column in the second part of the cruise.

BODC processing

The data were loaded into a database under the ORACLE Relational Database Management System without modification.

Comments on data quality

None to report.