

For Using Data

Principal Investigator	Sachihiko Itoh (Atmosphere and Ocean Research Institute, The University of Tokyo)
Use Constraints	None
Data Citation	None

Quality

Processed (PI)

Instrument

BIO-UCTD profiler

No Image

No Image

Instrument Information :

The BIO-UCTD (ASTD152-S10; JFE Advantech Co., Ltd.) is a towed, high-speed multiparameter profiler modified from the RINKO-Profiler for use in underway observations.

A cover-shaped weight attached to the sensor section provides a fully enclosed configuration with no exposed components, allowing more stable instrument attitude and high-speed profile measurements compared with the standard RINKO-Profiler.

Overview

Conducted free-fall and retrieval of the sensor while the vessel steamed at 6 knots.

Extracted data collected during each free fall as individual vertical profiles.

Removed erroneous and spurious data points (quality control).

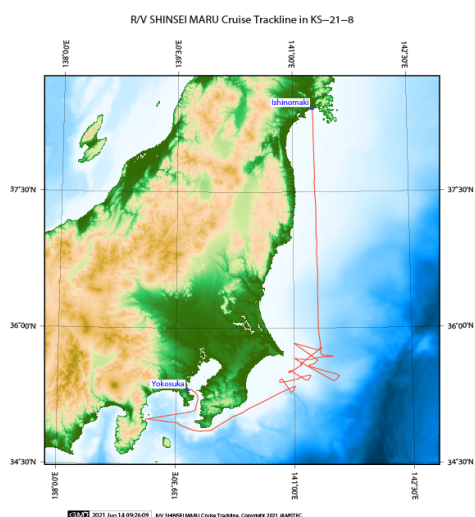
Corrected for the response-time mismatch between the thermistor and conductivity sensor, and then calculated salinity.

Interpolated the data onto a 1-dbar vertical grid.

Data format

The dataset is provided in NetCDF format and contains, for each profile, the deployment time (UTC), deployment latitude (deg-N), deployment longitude (deg-E), water temperature (deg-C), electrical conductivity (mS/cm), practical salinity, chlorophyll-a concentration (ppb), and turbidity (FTU).

Related Information



KS-21-8

Ship Name:	SHINSEI MARU
Period:	2021/05/13 - 2021/05/18
Chief Scientist:	Sachihiko Itoh (AORI, The University of Tokyo)
Proposal:	Distribution and mixing processes of riverine waters off Boso Peninsula