

HYPER-DOLPHIN HPD 02003 Submersible Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2018-07-31

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Dive No.: [HPD 02003](#)

Submersible Conductivity-Temperature-Depth Profiler (CTD): Raw

Data Policy: [JAMSTEC](#)

Observation Items: Depth/Pressure, Temperature, Salinity, Dissolved oxygen

Science Keywords:

OCEANS > OCEAN CHEMISTRY > OXYGEN
OCEANS > OCEAN TEMPERATURE > WATER TEMPERATURE
OCEANS > SALINITY/DENSITY > SALINITY

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/KS-17-J04_all.pdf

For Using Data

Principal Investigator

Data Management Office

Use Constraints

See [Terms and Conditions](#) about constrain of use.

Data Citation

See [Terms and Conditions](#) about data citation.

Instrument

Instrument:

CTD/DO measurement system
equipped on the remotely operated
vehicle "HYPER-DOLPHIN"



Overview

The CTD/DO system mounted on the 3000m-class remotely operated vehicle (ROV) "HYPER-DOLPHIN" is mainly composed of two instruments: a primary detection element and a PC for control and collection.

The primary detection element is consisted of SBE-19 SEACAT PROFILER CTD and SBE43 DO of Sea-Bird Electronics, Inc, installed horizontally under the main float of the front horizontal thruster of the vehicle. Its withstand depth is 4200m and its maximum depth of use is 4000m. Each parameter of conductivity, water temperature, pressure, and dissolved oxygen (DO) can be measured in 1Hz and is transmitted to the PC for control and collection onboard. , Record of each measurement data and ASCII conversions, data corrections, data management in the primary detecting element, time control, and other environmental settings can be conducted in the PC.

Specifications

SBE-19 SEACAT PROFILER CTD and SBE43 DO, Sea-Bird Electronics, Inc.

Sensor	Measurement range	Accuracy	Model	S/N
Temperature	-5 to +35 deg-C	0.01 deg-C	SBE 19	1924638-3068
Conductivity	0 to 7 S/m	0.001 S/m		1924638-3069
Pressure	0 to 6000 psi	0.02% of full scale range		
Dissolved oxygen	0 to 15 ml/l	0.1 ml/l	SBE 43	0818, 0819

Data processing

1-sec time interval data was treated with the contents equal to the SEASOFT software which is a following data processing module.

Module	Function
DATA CONVERSION	Converts raw data to pressure, temperature, conductivity, and oxygen.
FILTER	Performs a low pass filter on conductivity to make the high frequency data smooth.
ALIGNCTD	Advances temperature for 0.5 seconds compared with pressure to correct the measurement time difference.
DERIVE	Computes salinity.

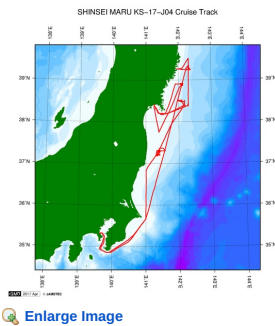
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KS-17-J04

Ship Name: SHINSEI MARU

Period: 2017-02-11 - 2017-02-27

Chief Scientist: Shinji Tsuchida (JAMSTEC)

Project Name: [Tohoku Ecosystem-Associated Marine Sciences (TEAMS)]

Proposal Researches on marine ecosystem dynamics off Sanriku

Title:

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Information of the Submersibles

KAIKO

SHINKAI 2000

SHINKAI 6500

DEEP TOW

HYPER-DOLPHIN

URASHIMA

YOKOSUKA DEEP TOW

6K Camera DEEP TOW

6K Sonar DEEP TOW

KM-ROV

POWER GRAB SAMPLER

(SHELL)

POWER GRAB SAMPLER

(CLOW)

BMS

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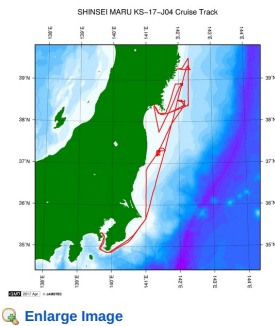
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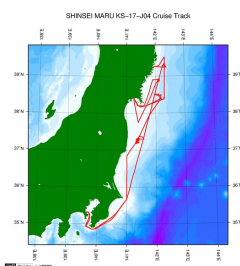
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