

## HYPER-DOLPHIN HPD 01244 Submersible Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2018-02-28

### ReadMe

Dive No.: [HPD 01244](#)

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/KY11-02\\_leg1\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/KY11-02_leg1_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.
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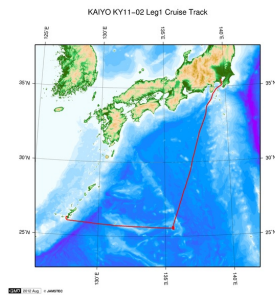
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We have no plan to process the data due to equipment failure etc.

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### Related Information

☒ Cruise Data ☐ Dive Data



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#### KY11-02 Leg1

Ship Name: KAIYO

Period: 2011-01-31 - 2011-02-06

Chief Scientist: Akira Usui (Kochi University)

Proposal Processes and Environment for Deposition of Ferromanganese Crusts.

Title:

#### Update History

2018-02-28	An observation data was registerd.
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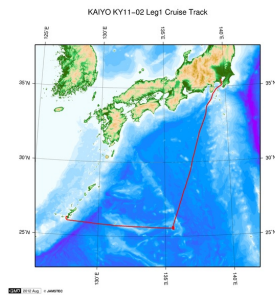
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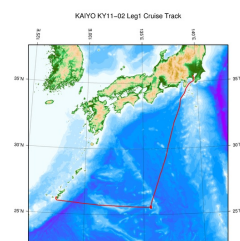
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