

## HYPER-DOLPHIN HPD 01664 Submersible Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-11-30

### ReadMe

Dive No.: [HPD 01664](#)

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/NT14-11\\_leg1\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/NT14-11_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	SBE 43	0818, 0819
Dissolved oxygen	0 to 15 ml/l	0.1 ml/l		

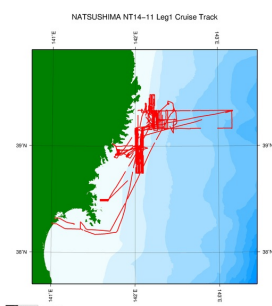
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### Related Information

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### NT14-11 Leg1

Ship Name: NATSUSHIMA

Period: 2014-06-23 - 2014-07-09

Chief Scientist: Yasuo Furushima (JAMSTEC)

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

Proposal Elucidation of the marine ecosystem fluctuation mechanism in the Sanriku offshore area

Title:

### Update History

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Site Policy  
Privacy Policy  
Application for Data and Samples  
Data Policy  
  
What's New  
Update History  
Feeds

Lists  
Publication List  
Amount of Public Info.  
  
Data  
Map Search  
Data Tree  
Detailed Search

Information of the Ships  
NATSUSHIMA  
KAIYO  
YOKOSUKA  
MIRAI  
KAIREI  
CHIKYU  
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POWER GRAB SAMPLER (SHELL)  
POWER GRAB SAMPLER (CLOW)  
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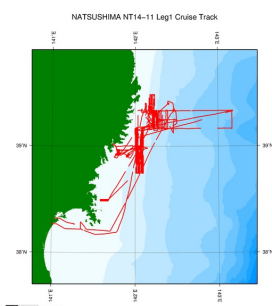
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Application for Data and Samples  
Data Policy  
  
What's New  
Update History  
Feeds

Lists  
Publication List  
Amount of Public Info.  
  
Data  
Map Search  
Data Tree  
Detailed Search

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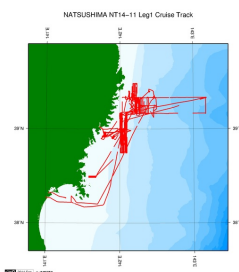
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POWER GRAB SAMPLER  
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