

MIRAI MR12-E02 Leg2 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2014-10-31

[ReadMe](#) [Observation Data](#) [Data Format](#)

Cruise ID: [MR12-E02 Leg2](#)

Conductivity-Temperature-Depth Profiler (CTD): Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items: Pressure, Temperature, Salinity, Dissolved oxygen

Science Keywords:

OCEANS > OCEAN CHEMISTRY > OXYGEN
OCEANS > OCEAN TEMPERATURE > WATER TEMPERATURE
OCEANS > SALINITY/DENSITY > SALINITY
OCEANS > OCEAN OPTICS > PHOTOSYNTHETICALLY ACTIVE RADIATION
OCEANS > OCEAN OPTICS > FLUORESCENCE

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR12-E02_leg2_all.pdf

For Using Data

Principal Investigator

Masahide Wakita (JAMSTEC)

Use Constraints

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

Data Citation

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

Instrument

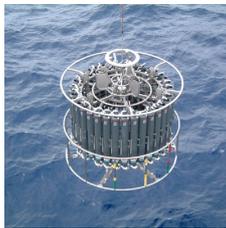
Instrument:

Water sampling system with CTD (30
litters * 24 bottles)



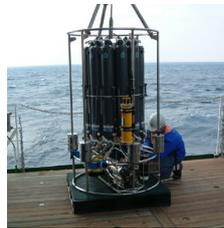
Instrument:

Water sampling system with CTD (12
litters * 36 bottles)



Instrument:

Water sampling system with CTD (12
litters * 12 bottles)



Instrument:

Conductivity temperature depth
measurements (CTD)



Overview

CTD(Conductivity-Temperature-Depth profiler) is used to observe the vertical profiles of temperature and conductivity.

Usually, this system is operated with multicylinder water sampler.

Observed signal is transmitted from sensor to the operation room on board using wire cable, and electric power is supplied from vessel to sensor.

Details of sensors attached to CTD system for MR12-E02 Leg2 cruise are presented in "System".

The following software, developed and supplied by the Sea-Bird Electronics, Inc., was used in MR09-03 Leg1.

SEASAVE(ver 7.21d) for data acquisition

SEASOFT(ver 7.18d) for data processing

Data presented on this website is averaged over 1db.

System

- Pressure : SBE9plus (Sea-Bird Electronics,Inc)
- Temperature : SBE3 (Sea-Bird Electronics,Inc)
- Salinity : SBE4 (Sea-Bird Electronics,Inc)
- Dissolved oxygen: SBE4 (Sea-Bird Electronics,Inc) , RINKOIII(JFE Advantec)
- Fluorescence:Seapoint Sensors,Inc.
- PAR: Satlantic Inc.
- XMISS [%] : WET Labs,Inc.

Calibration Information

Cruise report 3-2-2-1. CTD cast and water sampling

[Please see here for the cruise report.](#)

Notice

When use a data sample and result, please inform person about the data of a title, author, publication year, title, form of the publication and the medium of the publication.

Contact person about the data: Masahide Wakita

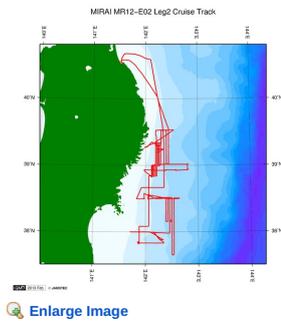
Organization: JAMSTEC Mutsu Institute for Oceanography

TEL: 81-175-45-1012

E-mail: mwakita@jamstec.go.jp

Related Information

Cruise Data Dive Data



MR12-E02 Leg2

Ship Name: MIRAI
 Period: 2012-03-15 - 2012-03-21
 Chief Scientist: Katsunori Fujikura (JAMSTEC)
 Project Name: [Tohoku Ecosystem-Associated Marine Sciences (TEAMS)]
 Proposal Title: Marine Ecosystems Investigation, Impact by the mega-earthquake (the 2011 Earthquake of the Pacific coast of Tohoku) and Tsunami: For Recovery and Rebuilding of Sanriku Fisheries Activities

[Enlarge Image](#)

Update History

2014-10-31	An observation data was registered.
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About data format

We provide the dataset as AWI Ocean Data View format (generic spreadsheet format).

Ocean Data View : <http://odv.awi.de/>

Japanese Guide : http://www.jodc.go.jp/jodc_pub/digitalpub_j.html

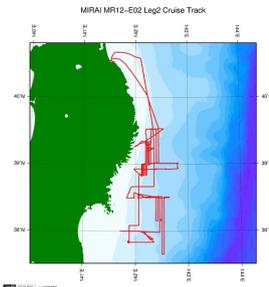
Quality flag

0 - accepted value

1 - unknown

Related Information

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[6K Camera DEEP TOW](#)

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[KM-ROV](#)

[POWER GRAB SAMPLER \(SHELL\)](#)

[POWER GRAB SAMPLER \(CLOW\)](#)

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Observation Map

1. Clicking the icon displays a balloon with observation information.



Data List

File names

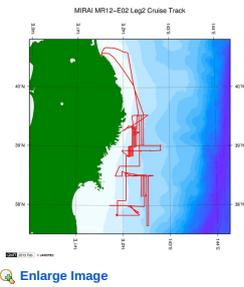
MR12-E02_Leg2_CTD.o4x

● Observation List
The list of observation is shown as follows.

Observation	Time and Date	Lat. [°]	Lon. [°]
B02	2012-03-20 00:00	39.5210	142.1970
B03	2012-03-20 00:00	39.5300	142.3150
B04	2012-03-21 00:00	39.5330	142.5340
B05	2012-03-24 00:00	39.5350	142.7450
B06	2012-03-24 00:00	39.5350	142.9650
B07	2012-03-24 00:00	39.5350	143.1830
C03	2012-03-19 00:00	38.9330	141.9760
C04	2012-03-19 00:00	38.9300	142.1670
C05	2012-03-19 00:00	38.9310	142.3830
C06	2012-03-19 00:00	38.9300	142.5800
C07	2012-03-19 00:00	38.9390	142.8070
D03	2012-03-15 00:00	38.5000	141.8320
D04	2012-03-15 00:00	38.4990	141.9830
D05	2012-03-16 00:00	38.5000	142.1990
D06	2012-03-17 00:00	38.5000	142.4180
D07	2012-03-17 00:00	38.5030	142.6370
D08	2012-03-26 00:00	38.5010	142.8480
D45	2012-03-25 00:00	38.4990	142.0950
D55	2012-03-26 00:00	38.5010	142.3380
E05	2012-03-17 00:00	38.0010	141.7130
E06	2012-03-18 00:00	38.0010	141.9340
E07	2012-03-18 00:00	37.9990	142.1530
F01	2012-03-28 00:00	37.8810	141.6720
F02	2012-03-28 00:00	37.8810	141.7350
F03	2012-03-27 00:00	37.8800	141.9550
F04	2012-03-27 00:00	37.8820	142.2930
F05	2012-03-27 00:00	37.8800	142.5110
F06	2012-03-27 00:00	37.8810	142.7260
O01	2012-03-23 00:00	39.2450	142.2230
O02	2012-03-24 00:00	39.2420	142.3210

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