

MIRAI MR12-02 Leg2 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2014-09-10

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

Cruise ID: [MR12-02 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

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR12-02_leg1-2_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:

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



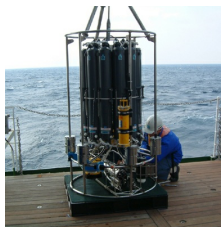
Instrument:

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



Instrument:

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



Instrument:

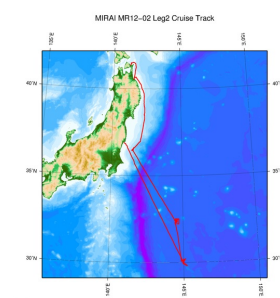
Conductivity temperature depth
measurements (CTD)



Overview

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

Related Information



[Enlarge Image](#)

MR12-02 Leg2

Ship Name: MIRAI

Period: 2012-06-24 - 2012-07-12

Chief Scientist: Makio Honda (JAMSTEC)

Project Name: [Station S1, Station KEO]

Proposal ▶ Change in material cycles and ecosystem by the climate change and its feedback

Title:

Update History

2014-09-10	An observation data was registerd.
2014-08-31	An observation data was registerd.

[Privacy Policy](#)
[Application for Data and Samples](#)
[Data Policy](#)

[What's New](#)
[Update History](#)
[Feeds](#)

[Amount of Public Info.](#)

[Data](#)
[Map Search](#)
[Data Tree](#)
[Detailed Search](#)

[KAIYO](#)
[YOKOSUKA](#)
[MIRAI](#)
[KAIREI](#)
[CHIKYU](#)
[KAIMEI](#)
[SHINSEI MARU](#)
[HAKUHO MARU](#)

[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](#)

Cruise ID:

[Go to a Dive Information](#)

Dive ID:

Copyright 2011 Japan Agency for Marine-Earth Science and Technology



JAMSTEC 国立研究開発法人
海洋研究開発機構
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

MIRAI MR12-02 Leg2 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2014-09-10

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

Cruise ID: [MR12-02 Leg2](#)

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

Data Policy: [JAMSTEC](#)

CTD WOCE-type1

Format Description for the Processed (PI) Data

Provided in the Exchange Format of CCHDO (CLIVAR and Carbon Hydrographic Data Office). Please see the following link for details of Exchange Format.

[CCHDO | CLIVAR & Carbon Hydrographic Data Office](#)

Data in following cruise is not expressed with Exchange Format. Please see the site of each cruise for format.

MR02-K05 Leg1

MR04-05

Format Description for the QCed Data

Each data file contains one line header (meta data) followed by data lines for each cast.

The number of data lines are recorded in the header.

Header part

No.	Column	Content	Format	Remarks
1	1	Header ID	a1	fixed as '#'
2	3 - 6	Data ID	a4	CTD
3	8 - 22	Cruise ID	a15	MYYY-(K)XX(_legx)
4	24 - 31	Cast name	a8	
5	33 - 40	Date	i8	YYYYMMDD (UTC)
6	42 - 45	Time	i4	hhmm (UTC)
7	47 - 55	Latitude	i2,a1,f5.2,a1	dd-mm.mmN(S)
8	57 - 66	Longitude	i3,a1,f5.2,a1	ddd-mm.mmE(W)
9	68 - 71	Number of data lines	i4	
10	72 - 73	Terminator	-	CR+LF

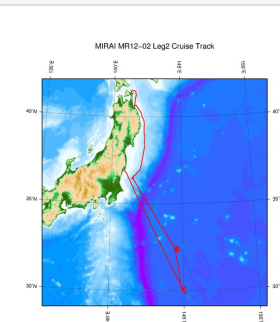
Data part

No.	Column	Content	Unit	Format	Remarks
1	1 - 11	Pressure	dbar	f11.3	
2	12 - 22	Temperature	deg-C	f11.4	ITS-90
3	23 - 33	Salinity	PSU	f11.4	PSS-78
4	34 - 44	Dissolved oxygen	umol/kg	f11.3	
5	45 - 55	Flag	-	i11	1 - 7 : space 8 : flag of pressure 9 : flag of temperature 10 : flag of salinity 11 : flag of dissolved oxygen * reference : Definition of Quality Control Flags
6	56 - 57	Terminator	-	-	CR+LF

Each contents of the data part is stored in 11 bytes.

Missing value is presented by '-5', and error value is presented by '-9'.

Related Information



[Enlarge Image](#)

MR12-02 Leg2

Ship Name: MIRAI

Period: 2012-06-24 - 2012-07-12

Chief Scientist: Makio Honda (JAMSTEC)

Project Name: [Station S1, Station KEO]

Proposal ▶ Change in material cycles and ecosystem by the climate change and its feedback

Title:

Update History

2014-09-10 An observation data was registered.
2014-08-31 An observation data was registered.

Feeds

SHINSEI MARU
HAKUHO MARU

6K Camera DEEP TOW
6K Sonar DEEP TOW
KM-ROV
POWER GRAB SAMPLER
(SHELL)
POWER GRAB SAMPLER
(CLOW)
BMS

Copyright 2011 Japan Agency for Marine-Earth Science and
Technology



JAMSTEC 国立研究開発法人
海洋研究開発機構
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

MIRAI MR12-02 Leg2 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2014-09-10

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

Cruise ID: [MR12-02 Leg2](#)

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

Data Policy: [JAMSTEC](#)

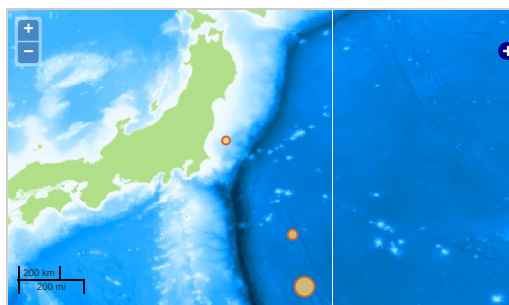
Observation Items: Pressure, Temperature, Salinity, Dissolved oxygen

Science Keywords:

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

Observation Map

- Clicking the icon displays a balloon with observation information.
- Then click the observation name, figures will be displayed.



— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

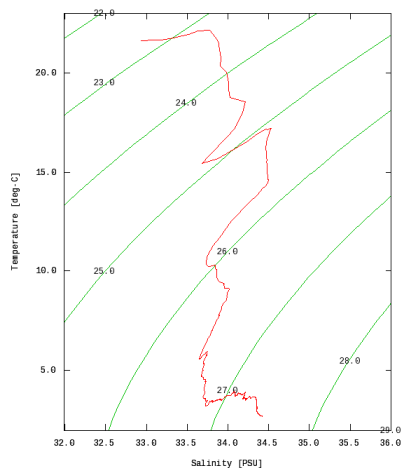
Imagery reproduced from ...

Figures

F01_01_ct1



MR12-02 Leg2:F01_01_ct1
Conductivity-Temperature-Depth Profiler (CTD):Salinity



Data List

[Add to Basket](#)

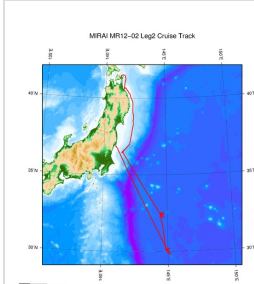
File names

<input type="checkbox"/>	F01_01_ct1.csv
<input type="checkbox"/>	KEO_01_ct1.csv
<input type="checkbox"/>	KEO_02_ct1.csv
<input type="checkbox"/>	S01_01_ct1.csv
<input type="checkbox"/>	S01_02_ct1.csv
<input type="checkbox"/>	S01_03_ct1.csv
<input type="checkbox"/>	S01_04_ct1.csv
<input type="checkbox"/>	S01_05_ct1.csv
<input type="checkbox"/>	S01_06_ct1.csv
<input type="checkbox"/>	S01_07_ct1.csv
<input type="checkbox"/>	S01_08_ct1.csv
<input type="checkbox"/>	S01_09_ct1.csv
<input type="checkbox"/>	S01_10_ct1.csv

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

Observation	Time and Date	Lat. [°]	Lon. [°]
F01_01_ct1	2012-07-07 00:00	36.4972	141.5110
KEO_01_ct1	2012-07-03 00:00	32.3177	144.4623
KEO_02_ct1	2012-07-04 00:00	32.4012	144.4930
S01_01_ct1	2012-06-26 00:00	30.0070	144.9938
S01_02_ct1	2012-06-27 00:00	29.9960	144.9967
S01_03_ct1	2012-06-27 00:00	30.0248	144.9883
S01_04_ct1	2012-06-28 00:00	30.0190	144.9825
S01_05_ct1	2012-06-28 00:00	29.9985	144.9905
S01_06_ct1	2012-06-30 00:00	29.8323	145.2372
S01_07_ct1	2012-06-30 00:00	29.9233	145.0957
S01_08_ct1	2012-07-01 00:00	30.0535	144.9722
S01_09_ct1	2012-07-02 00:00	30.0460	144.9833
S01_10_ct1	2012-07-02 00:00	30.0330	144.9925

Related Information



[Enlarge Image](#)

MR12-02 Leg2

Ship Name: MIRAI
Period: 2012-06-24 - 2012-07-12
Chief Scientist: Makio Honda (JAMSTEC)
Project Name: [Station S1, Station KEO]
Proposal ▶ Change in material cycles and ecosystem by the climate change and its feedback
Title:

Update History

2014-09-10	An observation data was registered.
2014-08-31	An observation data was registered.

JAMSTEC

[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
KAIMEI
SHINSEI MARU
HAKUHO MARU

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

Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

Copyright 2011 Japan Agency for Marine-Earth Science and Technology



JAMSTEC 国立研究開発法人
海洋研究開発機構
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY