

## MIRAI MR12-05 Leg2 Expendable Conductivity-Temperature-Depth Profiler (XCTD)

Last Modified: 2018-04-09

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

Cruise ID: [MR12-05 Leg2](#)

Expendable Conductivity-Temperature-Depth Profiler (XCTD): Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items: Depth, Temperature, Salinity

Science Keywords:

OCEANS > OCEAN TEMPERATURE > WATER TEMPERATURE

OCEANS > SALINITY/DENSITY > SALINITY

Cruise Report

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/MR12-05\\_leg1-3\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR12-05_leg1-3_all.pdf)

### For Using Data

**Principal Investigator**

Hiroshi Uchida (JAMSTEC)

**Use Constraints**

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

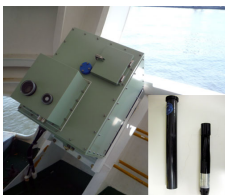
**Data Citation**

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

### Instrument

Instrument:

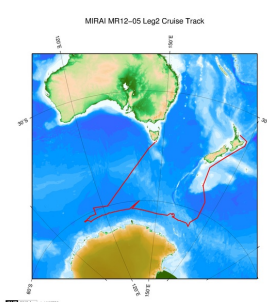
Expendable conductivity temperature  
depth measurements (XCTD) (MR11-  
04 - )



### Overview

Please see the [Data book](#) for details of data.

### Related Information



[Enlarge Image](#)

#### MR12-05 Leg2

Ship Name: MIRAI

Period: 2012-11-27 - 2013-01-03

Chief Scientist: Katsuro Katsumata (JAMSTEC)

Proposal ▶ WOCE-revisit in the western Pacific and Southern oceans

Title:

### Update History

2018-04-09	An observation data was registerd.
2017-04-13	An observation data was registerd.
2015-05-16	An observation data was registerd.
2015-01-24	An observation data was registerd.

#### 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:



## MIRAI MR12-05 Leg2 Expendable Conductivity-Temperature-Depth Profiler (XCTD)

Last Modified: 2018-04-09

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

Cruise ID: [MR12-05 Leg2](#)

Expendable Conductivity-Temperature-Depth Profiler (XCTD): Processed (PI)

Data Policy: [JAMSTEC](#)

### XCTD 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	XCTD
3	8 - 22	Cruise ID	a15	
4	33 - 40	Date	i8	YYYYMMDD (UTC)
5	42 - 45	Time	i4	hhmm (UTC)
6	47 - 55	Latitude	i2,a1,f5.2,a1	dd-mm.mmN(S)
7	57 - 66	Longitude	i3,a1,f5.2,a1	ddd-mm.mmE(W)
8	68 - 71	Number of data lines	i4	
9	72 - 73	Terminator	-	CR+LF

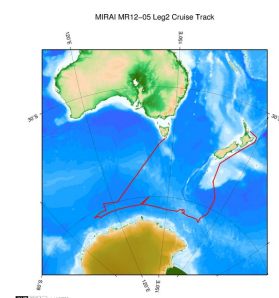
Data part

No.	Column	Content	Unit	Format	Remarks
1	1 - 11	Depth	dbar	f11.1	
2	12 - 22	Temperature	deg-C	f11.2	ITS-90
3	23 - 33	Salinity	PSU	f11.3	PSS-78
4	45 - 55	Flag	-	i11	1 - 7 : space 8 : flag of depth 9 : flag of temperature 10 : flag of salinity 11 : space * reference : <a href="#">Definition of Quality Control Flags</a>
5	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](#)

#### MR12-05 Leg2

Ship Name: MIRAI

Period: 2012-11-27 - 2013-01-03

Chief Scientist: Katsuro Katsumata (JAMSTEC)

Proposal ▶ WOCE-revisit in the western Pacific and Southern oceans

Title:

### Update History

2018-04-09	An observation data was registered.
2017-04-13	An observation data was registered.
2015-05-16	An observation data was registered.
2015-01-24	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](#)

#### Information of the Submersibles

[KAIKO](#)  
[SHINKAI 2000](#)  
[SHINKAI 6500](#)  
[DEEP TOW](#)  
[HYPER-DOLPHIN](#)  
[URASHIMA](#)  
[YOKOSUKA DEEP TOW](#)  
[6K Camera DEEP TOW](#)

#### Go to a Cruise Information

Cruise ID:

#### Go to a Dive Information

Dive ID:

HAKUHO MARU

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 MR12-05 Leg2 Expendable Conductivity-Temperature-Depth Profiler (XCTD)

Last Modified: 2018-04-09

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

Cruise ID: [MR12-05 Leg2](#)

Expendable Conductivity-Temperature-Depth Profiler (XCTD): Processed (PI)

Data Policy: [JAMSTEC](#)

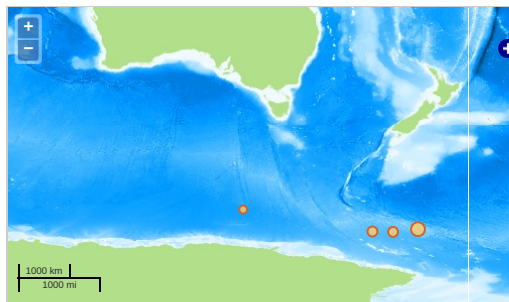
Observation Items: Depth, Temperature, Salinity

Science Keywords:

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

### Observation Map

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



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

### Data List

[Add to Basket](#)

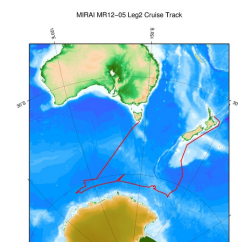
#### File names

999\_00C04\_00001\_xc1.csv  
P14S\_00025\_00001\_xc1.csv  
S04\_00401\_00001\_xc1.csv  
S04\_00402\_00001\_xc1.csv  
S04\_00403\_00001\_xc1.csv  
S04\_00405\_00001\_xc1.csv  
S04\_00407\_00001\_xc1.csv  
S04\_00409\_00001\_xc1.csv  
S04\_00411\_00001\_xc1.csv

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

Observation	Time and Date	Lat. [°]	Lon. [°]
999_00C04_00001_xc1	2012-12-18 13:59	-60.0272	139.9488
P14S_00025_00001_xc1	2012-12-09 15:14	-63.5043	170.9890
S04_00401_00001_xc1	2012-12-10 07:56	-64.3385	170.1295
S04_00402_00001_xc1	2012-12-10 11:28	-64.0018	169.2878
S04_00403_00001_xc1	2012-12-10 15:51	-64.0017	168.3788
S04_00405_00001_xc1	2012-12-10 23:02	-63.9867	166.5662
S04_00407_00001_xc1	2012-12-11 06:21	-64.0077	164.7447
S04_00409_00001_xc1	2012-12-11 14:15	-63.9210	162.9117
S04_00411_00001_xc1	2012-12-11 21:57	-63.6520	161.0877

### Related Information



[Enlarge Image](#)

#### MR12-05 Leg2

Ship Name: MIRAI  
Period: 2012-11-27 - 2013-01-03  
Chief Scientist: Katsuro Katsumata (JAMSTEC)  
Proposal ▶ WOCE-revisit in the western Pacific and Southern oceans  
Title:

### Update History

2018-04-09 An observation data was registered.  
2017-04-13 An observation data was registered.  
2015-05-16 An observation data was registered.  
2015-01-24 An observation data was registered.

Application for Data and  
Samples  
Data Policy

What's New  
Update History  
Feeds

Data  
Map Search  
Data Tree  
Detailed Search

YOKOSUKA  
MIRAI  
KAIREI  
CHIKYU  
KAIMEI  
SHINSEI MARU  
HAKUHO MARU

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 Dive Information

Dive ID:

Go

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