

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

Last Modified: 2017-04-11

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

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

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

Data Policy: [JAMSTEC](#)

Observation Items: Pressure, Temperature, Salinity, Dissolved oxygen, Fluorescence, Transmittance, PAR

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/MR12-05\\_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.

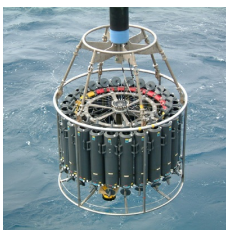
Data Citation

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

### Instrument

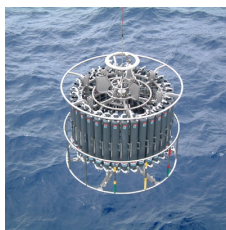
Instrument:

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



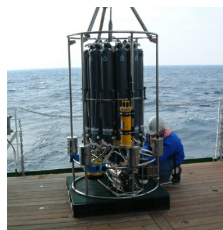
Instrument:

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



Instrument:

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



Instrument:

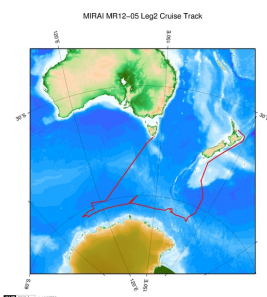
Conductivity temperature depth  
measurements (CTD)



### Overview

Please see 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

2017-04-11	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:

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 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-04-11

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

Cruise ID: [MR12-05 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	MRYY-(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

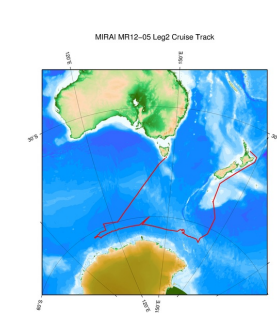
Data part

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 : <a href="#">Definition of Quality Control Flags</a>
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](#)

#### MR12-05 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

2017-04-11 An observation data was registered.  
2015-05-16 An observation data was registered.  
2015-01-24 An observation data was registered.

Update History  
Feeds

KAIMEI  
SHINSEI MARU  
HAKUHO MARU

YOKOSUKA DEEP TOW  
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 MR12-05 Leg2 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-04-11

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

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

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

Data Policy: [JAMSTEC](#)

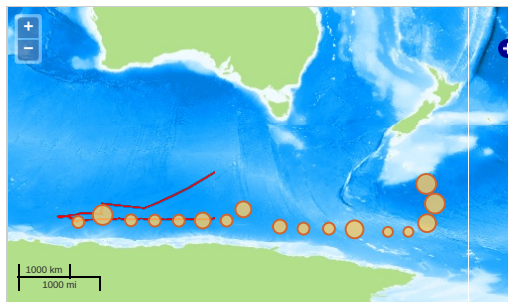
Observation Items: Pressure, Temperature, Salinity, Dissolved oxygen, Fluorescence, Transmittance, PAR

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

### Observation Map

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



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

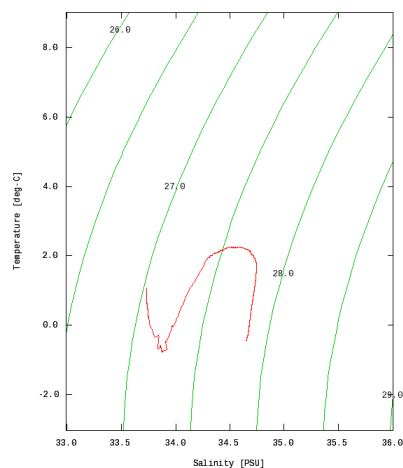
Imagery reproduced from ...

### Figures

999\_00C04\_00001\_ct1



MR12-05 Leg2: 999\_00C04\_00001\_ct1  
Conductivity-Temperature-Depth Profiler (CTD): Salinity



### Data List

[Add to Basket](#)

☐ File names

☐ 999\_00C04\_00001\_ct1.csv

☐ I09S\_00501\_00001\_ct1.csv

☐ I09S\_00502\_00001\_ct1.csv

☐ I09S\_00503\_00001\_ct1.csv

☐ P14S\_00008\_00001\_ct1.csv

☐ P14S\_00009\_00001\_ct1.csv

☐ P14S\_00010\_00001\_ct1.csv

☐ P14S\_00011\_00001\_ct1.csv

☐ P14S\_00012\_00001\_ct1.csv

☐ P14S\_00013\_00001\_ct1.csv

☐ P14S\_00014\_00001\_ct1.csv

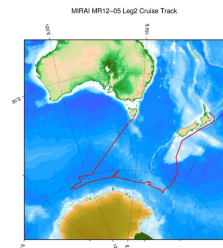
File names
P14S_00015_00001_ct1.csv
P14S_00016_00001_ct1.csv
P14S_00017_00001_ct1.csv
P14S_00018_00001_ct1.csv
P14S_00019_00001_ct1.csv
P14S_00020_00001_ct1.csv
P14S_00021_00001_ct1.csv
P14S_00022_00001_ct1.csv
P14S_00023_00001_ct1.csv
P14S_00024_00001_ct1.csv
P14S_00025_00001_ct1.csv
P14S_00026_00001_ct1.csv
P14S_00027_00001_ct1.csv
S04I_00084_00001_ct1.csv
S04I_00084_00002_ct1.csv
S04I_00085_00001_ct1.csv
S04I_00086_00001_ct1.csv
S04I_00087_00001_ct1.csv
S04I_00088_00001_ct1.csv
S04_00050_00001_ct1.csv
S04_00051_00001_ct1.csv
S04_00051_00002_ct1.csv
S04_00052_00001_ct1.csv
S04_00053_00001_ct1.csv
S04_00054_00001_ct1.csv
S04_00055_00001_ct1.csv
S04_00056_00001_ct1.csv
S04_00057_00001_ct1.csv
S04_00058_00001_ct1.csv
S04_00059_00001_ct1.csv
S04_00060_00001_ct1.csv
S04_00061_00001_ct1.csv
S04_00062_00001_ct1.csv
S04_00062_00002_ct1.csv
S04_00063_00001_ct1.csv
S04_00064_00001_ct1.csv
S04_00065_00001_ct1.csv
S04_00066_00001_ct1.csv
S04_00067_00001_ct1.csv
S04_00068_00001_ct1.csv
S04_00069_00001_ct1.csv
S04_00070_00001_ct1.csv
S04_00070_00002_ct1.csv
S04_00070_00003_ct1.csv
S04_00071_00001_ct1.csv
S04_00072_00001_ct1.csv
S04_00073_00001_ct1.csv
S04_00074_00001_ct1.csv
S04_00075_00001_ct1.csv
S04_00076_00001_ct1.csv
S04_00077_00001_ct1.csv
S04_00078_00001_ct1.csv
S04_00079_00001_ct1.csv
S04_00080_00001_ct1.csv
S04_00081_00001_ct1.csv
S04_00082_00001_ct1.csv
S04_00083_00001_ct1.csv
S04_00402_00001_ct1.csv
S04_00404_00001_ct1.csv
S04_00406_00001_ct1.csv
S04_00408_00001_ct1.csv
S04_00410_00001_ct1.csv

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

Observation	Time and Date	Lat. [°]	Lon. [°]
999_00C04_00001_ct1	2012-12-19 03:40	-60.0095	139.9825
I09S_00501_00001_ct1	2012-12-26 20:18	-61.0117	114.9967
I09S_00502_00001_ct1	2012-12-27 05:11	-59.8055	115.0380
I09S_00503_00001_ct1	2012-12-27 11:26	-59.2028	114.9927
P14S_00008_00001_ct1	2012-12-05 00:39	-55.4975	172.4603
P14S_00009_00001_ct1	2012-12-05 07:21	-55.9983	172.9950
P14S_00010_00001_ct1	2012-12-05 14:11	-56.4788	173.4802
P14S_00011_00001_ct1	2012-12-05 21:10	-56.9947	173.9860
P14S_00012_00001_ct1	2012-12-06 04:43	-57.5083	173.9807
P14S_00013_00001_ct1	2012-12-06 10:52	-58.0110	173.9972
P14S_00014_00001_ct1	2012-12-06 18:33	-58.5035	173.9782
P14S_00015_00001_ct1	2012-12-07 03:43	-58.9873	174.0038
P14S_00016_00001_ct1	2012-12-07 09:54	-59.4712	174.0163
P14S_00017_00001_ct1	2012-12-07 15:42	-59.9650	173.9680
P14S_00018_00001_ct1	2012-12-07 21:39	-60.5108	173.9728
P14S_00019_00001_ct1	2012-12-08 03:31	-60.9900	173.9760
P14S_00020_00001_ct1	2012-12-08 09:26	-61.5065	174.0153


Observation	Time and Date	Lat. [°]	Lon. [°]
P14S_00021_00001_ct1	2012-12-08 16:13	-62.0140	173.3030
P14S_00022_00001_ct1	2012-12-08 22:25	-62.4615	172.6033
P14S_00023_00001_ct1	2012-12-09 03:40	-62.7510	172.1698
P14S_00024_00001_ct1	2012-12-09 08:34	-63.0015	171.7573
P14S_00025_00001_ct1	2012-12-09 15:42	-63.5055	170.9830
P14S_00026_00001_ct1	2012-12-09 20:31	-63.9947	171.1228
P14S_00027_00001_ct1	2012-12-10 03:07	-64.6890	170.9908
S04I_00084_00001_ct1	2012-12-24 11:09	-62.0508	113.8290
S04I_00084_00002_ct1	2012-12-24 13:34	-62.0712	113.8247
S04I_00085_00001_ct1	2012-12-24 20:46	-62.0872	112.1628
S04I_00086_00001_ct1	2012-12-25 03:30	-62.2618	110.6640
S04I_00087_00001_ct1	2012-12-25 13:38	-61.5258	108.9620
S04I_00088_00001_ct1	2012-12-25 20:39	-61.6408	107.4457
S04_00050_00001_ct1	2012-12-12 02:55	-63.5657	159.7290
S04_00051_00001_ct1	2012-12-13 05:11	-63.0422	159.4398
S04_00051_00002_ct1	2012-12-13 07:10	-63.0443	159.4370
S04_00052_00001_ct1	2012-12-13 12:55	-62.7925	158.1598
S04_00053_00001_ct1	2012-12-13 20:11	-63.4347	156.6527
S04_00054_00001_ct1	2012-12-14 02:10	-63.4347	155.1830
S04_00055_00001_ct1	2012-12-14 07:45	-63.3840	153.6840
S04_00056_00001_ct1	2012-12-14 13:18	-63.4285	152.1798
S04_00057_00001_ct1	2012-12-15 00:34	-63.4340	150.6627
S04_00058_00001_ct1	2012-12-15 06:30	-63.3053	149.2065
S04_00059_00001_ct1	2012-12-15 12:22	-63.1830	147.8402
S04_00060_00001_ct1	2012-12-15 18:26	-63.0690	146.4682
S04_00061_00001_ct1	2012-12-16 00:35	-62.9010	145.0433
S04_00062_00001_ct1	2012-12-16 05:54	-62.7648	143.5975
S04_00062_00002_ct1	2012-12-16 08:29	-62.7652	143.6018
S04_00063_00001_ct1	2012-12-16 14:52	-62.5955	142.2300
S04_00064_00001_ct1	2012-12-16 20:43	-62.4672	141.0340
S04_00065_00001_ct1	2012-12-17 02:19	-62.3550	139.8868
S04_00066_00001_ct1	2012-12-17 08:37	-62.1607	138.4520
S04_00067_00001_ct1	2012-12-17 14:41	-62.0027	137.0135
S04_00068_00001_ct1	2012-12-17 20:57	-62.0042	135.5735
S04_00069_00001_ct1	2012-12-20 01:37	-62.0193	134.1945
S04_00070_00001_ct1	2012-12-20 07:46	-61.9968	132.7618
S04_00070_00002_ct1	2012-12-20 10:39	-61.9960	132.6112
S04_00070_00003_ct1	2012-12-20 14:12	-61.9945	132.6047
S04_00071_00001_ct1	2012-12-20 20:37	-62.0067	131.3250
S04_00072_00001_ct1	2012-12-21 03:27	-62.0015	129.9385
S04_00073_00001_ct1	2012-12-21 10:28	-62.0143	128.5233
S04_00074_00001_ct1	2012-12-21 17:21	-62.0078	127.0905
S04_00075_00001_ct1	2012-12-22 00:13	-62.0030	125.6558
S04_00076_00001_ct1	2012-12-22 07:02	-62.0025	124.2540
S04_00077_00001_ct1	2012-12-22 14:04	-62.0028	122.8385
S04_00078_00001_ct1	2012-12-22 21:34	-61.9997	121.5262
S04_00079_00001_ct1	2012-12-23 04:22	-61.9537	120.0243
S04_00080_00001_ct1	2012-12-23 10:06	-61.9860	119.0390
S04_00081_00001_ct1	2012-12-23 15:50	-61.8357	118.0232
S04_00082_00001_ct1	2012-12-23 23:14	-61.9585	116.4025
S04_00083_00001_ct1	2012-12-24 05:43	-61.9382	115.0723
S04_00402_00001_ct1	2012-12-10 12:06	-64.0042	169.2873
S04_00404_00001_ct1	2012-12-10 19:25	-63.9952	167.4615
S04_00406_00001_ct1	2012-12-11 02:28	-64.0108	165.6547
S04_00408_00001_ct1	2012-12-11 09:49	-64.0453	163.8175
S04_00410_00001_ct1	2012-12-11 17:49	-63.7990	162.0068

#### Related Information



MR12-05 Leg2 Cruise Track

**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:

 [Enlarge Image](#)

#### Update History

2017-04-11 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

Lists  
Publication List  
Amount of Public Info.

Information of the Ships  
NATSUSHIMA  
KAIYO  
YOKOSUKA

Information of the  
Submersibles  
KAIKO  
SHINKAI 2000

Go to a Cruise Information

Cruise ID:

Go

Samples  
Data Policy  
  
What's New  
Update History  
Feeds

Data  
Map Search  
Data Tree  
Detailed Search

MIRAI  
KAIREI  
CHIKYU  
KAIMEI  
SHINSEI MARU  
HAKUHO MARU

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