

## MIRAI MR12-05 Leg3 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-04-11

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

Cruise ID: [MR12-05 Leg3](#)

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.

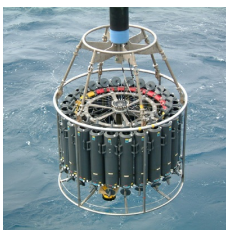
Data Citation

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

### Instrument

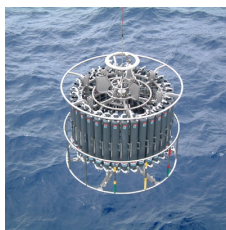
Instrument:

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



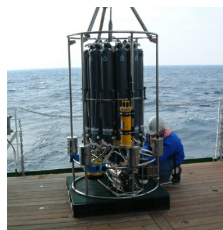
Instrument:

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



Instrument:

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



Instrument:

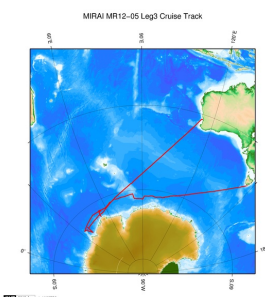
Conductivity temperature depth  
measurements (CTD)



### Overview

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

### Related Information



[Enlarge Image](#)

#### MR12-05 Leg3

Ship Name: MIRAI

Period: 2013-01-05 - 2013-02-15

Chief Scientist: Hiroshi Uchida (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.
2015-02-15	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:

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JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

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

Cruise ID: [MR12-05 Leg3](#)

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

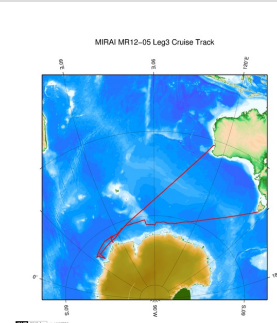
Data part

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 : <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 Leg3

Ship Name: MIRAI

Period: 2013-01-05 - 2013-02-15

Chief Scientist: Hiroshi Uchida (JAMSTEC)

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

Title:

### Update History

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2015-05-16 An observation data was registered.  
2015-02-15 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

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海洋研究開発機構  
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

## MIRAI MR12-05 Leg3 Conductivity-Temperature-Depth Profiler (CTD)

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

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

Data Policy: [JAMSTEC](#)

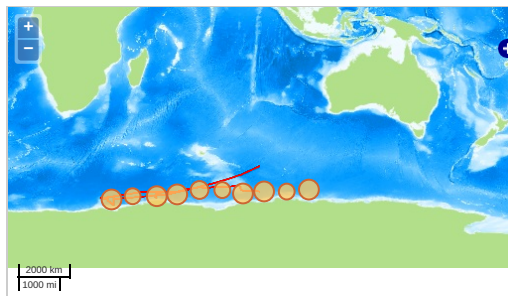
Observation Items: Pressure, Temperature, Salinity, Dissolved oxygen, Fluorescence, Transmittance, PAR

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

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



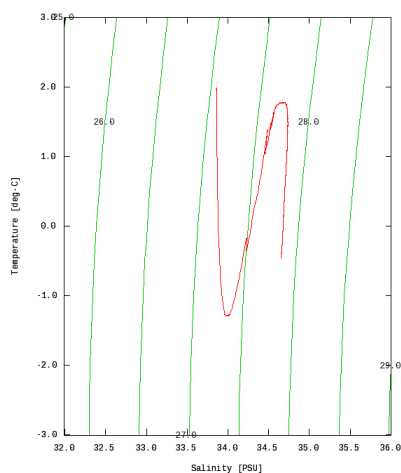
— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

### Figures

S04I\_00088\_00002\_ct1



MR12-05 Leg3: S04I\_00088\_00002\_ct1  
Conductivity-Temperature-Depth Profiler (CTD): Salinity



### Data List

[Add to Basket](#)

☐ File names

☐ S04I\_00088\_00002\_ct1.csv

☐ S04I\_00089\_00001\_ct1.csv

☐ S04I\_00090\_00001\_ct1.csv

☐ S04I\_00091\_00001\_ct1.csv

☐ S04I\_00092\_00001\_ct1.csv

☐ S04I\_00093\_00001\_ct1.csv

☐ S04I\_00094\_00001\_ct1.csv

☐ S04I\_00095\_00001\_ct1.csv

☐ S04I\_00096\_00001\_ct1.csv

☐ S04I\_00097\_00001\_ct1.csv

☐ S04I\_00098\_00001\_ct1.csv

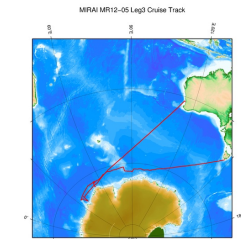
File names
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S04I_00101_00001_ct1.csv
S04I_00102_00001_ct1.csv
S04I_00103_00001_ct1.csv
S04I_00104_00001_ct1.csv
S04I_00105_00001_ct1.csv
S04I_00106_00001_ct1.csv
S04I_00107_00001_ct1.csv
S04I_00108_00001_ct1.csv
S04I_00109_00001_ct1.csv
S04I_00110_00001_ct1.csv
S04I_00111_00001_ct1.csv
S04I_00112_00001_ct1.csv
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S04I_00158_00001_ct1.csv
S04I_00162_00001_ct1.csv
S04I_00163_00001_ct1.csv
S04I_00164_00001_ct1.csv
S04I_00165_00002_ct1.csv
S04I_00166_00001_ct1.csv
S04I_00167_00001_ct1.csv

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

Observation	Time and Date	Lat. [°]	Lon. [°]
S04I_00088_00002_ct1	2013-01-12 20:18	-61.6202	107.4453
S04I_00089_00001_ct1	2013-01-13 03:43	-61.8683	106.3638
S04I_00090_00001_ct1	2013-01-13 10:19	-62.1438	105.2743
S04I_00091_00001_ct1	2013-01-13 16:34	-62.0337	104.3085
S04I_00092_00001_ct1	2013-01-13 22:45	-62.0843	103.2465
S04I_00093_00001_ct1	2013-01-14 04:23	-62.2135	102.3442
S04I_00094_00001_ct1	2013-01-14 10:46	-62.3292	101.0893
S04I_00095_00001_ct1	2013-01-14 18:02	-62.3335	99.5663
S04I_00096_00001_ct1	2013-01-15 01:06	-62.1107	98.0242
S04I_00097_00001_ct1	2013-01-15 08:12	-62.1197	96.3207
S04I_00098_00001_ct1	2013-01-15 15:10	-62.2522	94.7597
S04I_00099_00001_ct1	2013-01-15 22:22	-62.2757	93.1485
S04I_00100_00001_ct1	2013-01-16 05:12	-62.2850	91.5177

Observation	Time and Date	Lat. [°]	Lon. [°]
S04I_00101_00001_ct1	2013-01-16 11:21	-62.8103	90.8587
S04I_00102_00001_ct1	2013-01-16 17:31	-63.3573	90.1775
S04I_00103_00001_ct1	2013-01-17 01:19	-63.1187	88.6875
S04I_00104_00001_ct1	2013-01-17 07:59	-63.1092	87.1323
S04I_00105_00001_ct1	2013-01-17 13:53	-63.1040	85.9758
S04I_00106_00001_ct1	2013-01-17 19:02	-62.9568	84.9872
S04I_00107_00001_ct1	2013-01-17 23:45	-63.0110	84.0205
S04I_00108_00001_ct1	2013-01-18 03:53	-62.7477	83.4737
S04I_00109_00001_ct1	2013-01-18 08:41	-62.2500	83.2502
S04I_00110_00001_ct1	2013-01-18 13:32	-61.7592	83.0267
S04I_00111_00001_ct1	2013-01-18 18:10	-61.2662	82.8282
S04I_00112_00001_ct1	2013-01-18 23:27	-61.3885	81.6267
S04I_00113_00001_ct1	2013-01-19 04:22	-61.4155	80.4898
S04I_00114_00001_ct1	2013-01-19 09:22	-61.5492	79.4752
S04I_00115_00001_ct1	2013-01-19 14:42	-61.6470	78.4142
S04I_00116_00001_ct1	2013-01-19 21:52	-61.8090	76.6812
S04I_00117_00001_ct1	2013-01-20 04:58	-61.8020	74.9750
S04I_00118_00001_ct1	2013-01-20 12:09	-61.7970	73.2565
S04I_00119_00001_ct1	2013-01-20 19:35	-62.0097	71.6343
S04I_00120_00001_ct1	2013-01-21 02:42	-61.9618	70.0162
S04I_00121_00001_ct1	2013-01-21 09:11	-61.7648	68.6083
S04I_00122_00001_ct1	2013-01-21 15:51	-62.0470	67.2010
S04I_00123_00001_ct1	2013-01-21 22:48	-62.3137	65.7905
S04I_00124_00001_ct1	2013-01-22 05:14	-62.3605	64.4047
S04I_00125_00001_ct1	2013-01-22 12:46	-62.8330	62.9967
S04I_00126_00001_ct1	2013-01-22 19:22	-63.0900	61.8130
S04I_00127_00001_ct1	2013-01-23 01:43	-63.3327	60.6647
S04I_00128_00001_ct1	2013-01-23 08:03	-63.5062	59.4473
S04I_00129_00001_ct1	2013-01-23 14:00	-63.5010	58.3360
S04I_00130_00002_ct1	2013-01-23 22:26	-63.4992	57.1635
S04I_00131_00001_ct1	2013-01-26 12:02	-63.5000	55.9923
S04I_00132_00001_ct1	2013-01-26 17:54	-63.4987	54.8228
S04I_00133_00001_ct1	2013-01-27 00:05	-63.5017	53.6768
S04I_00134_00001_ct1	2013-01-26 02:14	-63.9678	53.4202
S04I_00135_00001_ct1	2013-01-25 20:30	-64.4338	53.0715
S04I_00136_00001_ct1	2013-01-25 15:44	-64.7820	52.9882
S04I_00137_00001_ct1	2013-01-25 11:33	-65.1035	53.0167
S04I_00138_00001_ct1	2013-01-25 07:47	-65.2242	53.1318
S04I_00139_00002_ct1	2013-01-25 04:23	-65.3682	53.2462
S04I_00140_00001_ct1	2013-01-25 00:13	-65.4547	53.3610
S04I_00141_00001_ct1	2013-01-27 05:59	-63.4943	52.5075
S04I_00142_00001_ct1	2013-01-27 11:45	-63.4998	51.4108
S04I_00143_00002_ct1	2013-01-27 17:53	-63.4997	50.2517
S04I_00144_00001_ct1	2013-01-27 23:49	-63.4998	49.1632
S04I_00145_00001_ct1	2013-01-28 05:40	-63.5000	48.0032
S04I_00146_00001_ct1	2013-01-28 12:25	-63.7370	46.4030
S04I_00147_00001_ct1	2013-01-28 19:06	-63.9828	44.8435
S04I_00148_00001_ct1	2013-01-29 02:11	-64.2233	43.2587
S04I_00149_00001_ct1	2013-01-29 08:54	-64.4623	41.6155
S04I_00150_00001_ct1	2013-01-29 15:29	-64.6885	40.0850
S04I_00151_00001_ct1	2013-01-29 22:47	-64.9350	38.4690
S04I_00152_00001_ct1	2013-01-30 04:58	-65.1325	37.3457
S04I_00153_00001_ct1	2013-01-30 11:04	-65.3005	36.1210
S04I_00154_00001_ct1	2013-01-30 17:26	-65.5415	34.9257
S04I_00155_00001_ct1	2013-01-30 22:11	-65.6963	34.2473
S04I_00156_00001_ct1	2013-01-31 02:12	-65.6985	33.4882
S04I_00157_00001_ct1	2013-01-31 10:11	-66.0003	36.0023
S04I_00158_00001_ct1	2013-01-31 16:06	-66.4995	35.9995
S04I_00162_00001_ct1	2013-02-01 04:21	-68.0568	37.9827
S04I_00163_00001_ct1	2013-02-01 10:13	-67.5008	38.0007
S04I_00164_00001_ct1	2013-02-01 16:20	-67.0015	37.9963
S04I_00165_00002_ct1	2013-02-01 22:51	-66.5050	37.9997
S04I_00166_00001_ct1	2013-02-02 13:11	-65.9998	38.0008
S04I_00167_00001_ct1	2013-02-02 07:03	-65.4975	37.9980

Related Information



[Enlarge Image](#)

**MR12-05 Leg3**  
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Period: 2013-01-05 - 2013-02-15  
Chief Scientist: Hiroshi Uchida (JAMSTEC)  
Proposal ▶ WOCE-revisit in the western Pacific and Southern oceans  
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#### JAMSTEC

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#### What's New

Update History  
Feeds

#### Lists

Publication List  
Amount of Public Info.

#### Data

Map Search  
Data Tree  
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#### 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:

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