

## MIRAI MR03-K04 Leg4 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-04-11

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

Cruise ID: [MR03-K04 Leg4](#)

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/MR03-K04\\_leg4\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR03-K04_leg4_all.pdf)

### [For Using Data](#)

#### Principal Investigator

Hiroshi Uchida (JAMSTEC)  
MasaoFukasawa (JAMSTEC)  
Wolfgang Schneider (University of Concepcion)

#### Use Constraints

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

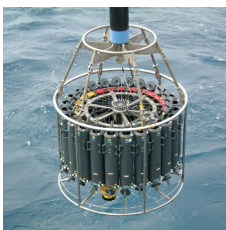
#### Data Citation

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

### Instrument

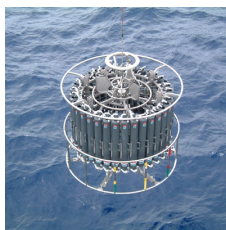
Instrument:

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



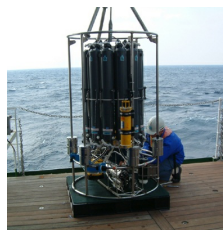
Instrument:

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



Instrument:

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



Instrument:

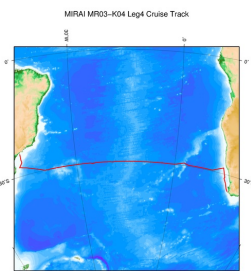
Conductivity temperature depth  
measurements (CTD)



### Overview

Please see the [Data books Volume 1](#), [Volume 2](#), and [Volume 3](#) for details of data.

### Related Information



[Enlarge Image](#)

#### MR03-K04 Leg4

Ship Name: MIRAI  
Period: 2003-11-06 - 2003-12-05  
Chief Scientist: Yasushi Yoshikawa (JAMSTEC)  
Project Name: [Blue Earth Global Expedition 2003, POST-WOCE Hydrography]

### Update History

2017-04-11	An observation data was registerd.
2014-07-24	An observation data was registerd.
2012-12-25	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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**JAMSTEC**  
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

国立研究開発法人  
海洋研究開発機構

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

Cruise ID: [MR03-K04 Leg4](#)

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

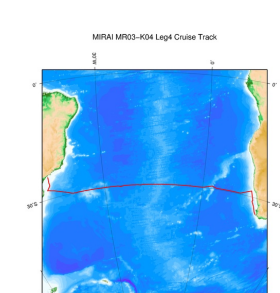
Data part

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](#)

#### MR03-K04 Leg4

Ship Name: MIRAI

Period: 2003-11-06 - 2003-12-05

Chief Scientist: Yasushi Yoshikawa (JAMSTEC)

Project Name: [Blue Earth Global Expedition 2003,POST-WOCE Hydrography]

### Update History

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#### JAMSTEC

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#### Lists

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[Amount of Public Info.](#)  
  
[Data](#)  
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#### Information of the Ships

[NATSUSHIMA](#)  
[KAIYO](#)  
[YOKOSUKA](#)  
[MIRAI](#)  
[KAIREI](#)  
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[KAIMEI](#)

#### Information of the Submersibles

[KAIKO](#)  
[SHINKAI 2000](#)  
[SHINKAI 6500](#)  
[DEEP TOW](#)  
[HYPER-DOLPHIN](#)  
[URASHIMA](#)

#### Go to a Cruise Information

Cruise ID:

#### Go to a Dive Information

Dive ID:

Update History  
Feeds

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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JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

## MIRAI MR03-K04 Leg4 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-04-11

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

Cruise ID: [MR03-K04 Leg4](#)

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

Data Policy: [JAMSTEC](#)

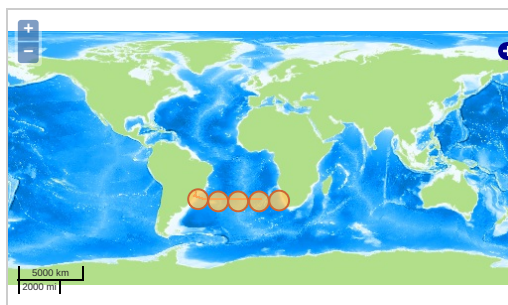
Observation Items: Pressure, Temperature, Salinity, Dissolved oxygen

Science Keywords:

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

### Observation Map

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

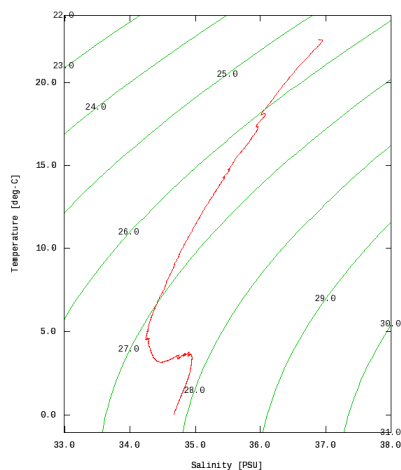
Imagery reproduced from ...

### Figures

A10\_001\_01\_ct1



MR03-K04 Leg4: A10\_001\_01\_ct1  
Conductivity-Temperature-Depth Profiler (CTD): Salinity























### Data List

[Add to Basket](#)

#### File names

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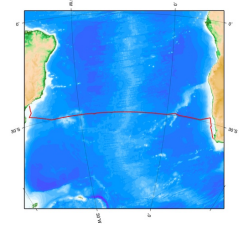
● Observation List  
The list of observation is shown as follows.

Observation	Time and Date	Lat. [°]	Lon. [°]
A10_001_01_ct1	2003-11-08 23:24	-28.4202	-44.7878
A10_002_01_ct1	2003-11-09 05:03	-28.6107	-44.2228
A10_003_01_ct1	2003-11-09 10:43	-28.8338	-43.5873
A10_004_01_ct1	2003-11-09 16:37	-29.0347	-42.9098
A10_005_01_ct1	2003-11-09 22:21	-29.2282	-42.3242
A10_006_01_ct1	2003-11-10 04:01	-29.4142	-41.7430
A10_007_01_ct1	2003-11-10 09:47	-29.6075	-41.1617
A10_008_01_ct1	2003-11-10 15:06	-29.8058	-40.5783
A10_009_01_ct1	2003-11-10 20:11	-30.0087	-39.9937
A10_010_01_ct1	2003-11-11 00:40	-30.0067	-39.5230
A10_011_01_ct1	2003-11-11 05:17	-29.9982	-39.3757
A10_013_01_ct1	2003-11-11 15:30	-29.9985	-38.4905
A10_014_01_ct1	2003-11-11 20:23	-29.9963	-37.9933
A10_015_01_ct1	2003-11-12 01:24	-29.9965	-37.4958
A10_016_01_ct1	2003-11-12 05:31	-30.0025	-37.1715
A10_018_01_ct1	2003-11-12 12:39	-29.9988	-36.4957
A10_019_01_ct1	2003-11-12 15:21	-29.9963	-36.1640
A10_020_01_ct1	2003-11-12 18:10	-30.0000	-35.8282
A10_021_01_ct1	2003-11-12 21:47	-29.9970	-35.4885
A10_022_01_ct1	2003-11-13 01:14	-30.0010	-35.1683
A10_023_01_ct1	2003-11-13 04:22	-30.0002	-34.8305
A10_024_01_ct1	2003-11-13 07:22	-30.0015	-34.4987
A10_025_01_ct1	2003-11-13 10:50	-29.9963	-33.9977
A10_026_01_ct1	2003-11-13 14:36	-30.0002	-33.4988
A10_027_01_ct1	2003-11-13 19:10	-29.9938	-33.0033
A10_028_01_ct1	2003-11-14 00:34	-30.0013	-32.5045
A10_029_01_ct1	2003-11-14 05:41	-30.0065	-32.0048
A10_030_01_ct1	2003-11-14 10:53	-30.0030	-31.5087
A10_031_01_ct1	2003-11-14 16:02	-30.0073	-30.9917
A10_032_01_ct1	2003-11-14 21:09	-30.0033	-30.4952
A10_033_01_ct1	2003-11-15 02:24	-30.0027	-29.9890
A10_034_01_ct1	2003-11-16 06:40	-29.9977	-29.4955
A10_035_01_ct1	2003-11-16 10:42	-30.0003	-28.9917
A10_036_01_ct1	2003-11-16 15:32	-29.9882	-28.4150
A10_037_01_ct1	2003-11-16 21:44	-29.9873	-27.5607
A10_038_01_ct1	2003-11-17 04:41	-30.0023	-26.7182
A10_039_01_ct1	2003-11-17 11:35	-29.9945	-25.8613
A10_041_01_ct1	2003-11-18 00:49	-30.0012	-24.1643
A10_042_01_ct1	2003-11-18 07:24	-30.0055	-23.3115
A10_043_01_ct1	2003-11-18 13:47	-30.0007	-22.4827
A10_044_01_ct1	2003-11-18 20:23	-29.9948	-21.6237
A10_045_01_ct1	2003-11-19 03:13	-30.0068	-20.7733
A10_046_01_ct1	2003-11-19 09:54	-29.9977	-19.9068
A10_048_01_ct1	2003-11-19 22:09	-29.9910	-18.3835
A10_049_01_ct1	2003-11-20 03:51	-29.9980	-17.7062
A10_050_01_ct1	2003-11-20 09:34	-29.9927	-17.0138
A10_051_01_ct1	2003-11-20 14:58	-30.0010	-16.3390
A10_052_01_ct1	2003-11-20 20:15	-29.9955	-15.6660
A10_053_01_ct1	2003-11-21 01:28	-29.9928	-14.9992
A10_054_01_ct1	2003-11-21 06:55	-29.9960	-14.3325
A10_055_01_ct1	2003-11-21 11:39	-29.9968	-13.6645
A10_056_01_ct1	2003-11-21 16:08	-29.9960	-12.9898
A10_057_01_ct1	2003-11-21 21:21	-29.9892	-12.3288
A10_058_01_ct1	2003-11-22 02:28	-29.9920	-11.6713
A10_059_01_ct1	2003-11-22 07:50	-30.0010	-11.0028
A10_060_01_ct1	2003-11-22 13:30	-29.9958	-10.3347
A10_061_01_ct1	2003-11-22 18:57	-30.0012	-9.6587
A10_063_01_ct1	2003-11-23 06:53	-29.9990	-8.1630
A10_064_01_ct1	2003-11-23 13:09	-30.0025	-7.3312
A10_065_01_ct1	2003-11-23 19:29	-30.0038	-6.4877
A10_066_01_ct1	2003-11-24 02:02	-29.9938	-5.6593
A10_067_01_ct1	2003-11-24 08:21	-29.9967	-4.8217
A10_068_01_ct1	2003-11-25 11:56	-29.9948	-3.9920

Observation	Time and Date	Lat. (°)	Lon. (°)
A10_069_01_ct1	2003-11-29 17:56	-30.0113	-3.1623
A10_070_01_ct1	2003-11-26 00:14	-30.0130	-2.3212
A10_071_01_ct1	2003-11-26 06:43	-30.0048	-1.4903
A10_072_01_ct1	2003-11-26 12:54	-30.0023	-0.7300
A10_073_01_ct1	2003-11-26 19:01	-29.9897	0.0080
A10_074_01_ct1	2003-11-27 00:01	-29.8607	0.5745
A10_075_01_ct1	2003-11-27 04:54	-29.7263	1.1318
A10_076_01_ct1	2003-11-27 09:58	-29.6017	1.7027
A10_077_01_ct1	2003-11-27 14:41	-29.4717	2.2657
A10_078_01_ct1	2003-11-27 19:31	-29.3300	2.8367
A10_079_01_ct1	2003-11-28 00:40	-29.4677	3.3075
A10_080_01_ct1	2003-11-28 06:01	-29.6085	3.7815
A10_081_01_ct1	2003-11-28 11:12	-29.7473	4.2437
A10_082_01_ct1	2003-11-28 17:50	-29.7512	5.1077
A10_083_01_ct1	2003-11-29 00:29	-29.7405	5.9503
A10_084_01_ct1	2003-11-29 07:14	-29.7432	6.7827
A10_085_01_ct1	2003-11-29 14:03	-29.7377	7.6293
A10_086_01_ct1	2003-11-29 21:06	-29.7470	8.4707
A10_087_01_ct1	2003-11-30 04:11	-29.7347	9.2952
A10_089_02_ct1	2003-11-30 22:46	-29.7478	10.9778
A10_090_01_ct1	2003-12-01 05:54	-29.7462	11.8115
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A10_624_01_ct1	2003-11-07 15:12	-27.8147	-47.0255
A10_625_01_ct1	2003-11-07 17:21	-27.8542	-46.8490
A10_626_01_ct1	2003-11-07 20:26	-27.9058	-46.6660
A10_627_01_ct1	2003-11-07 23:29	-27.9503	-46.4887
A10_628_01_ct1	2003-11-08 02:51	-27.9977	-46.3100
A10_629_01_ct1	2003-11-08 06:07	-28.0475	-46.1267
A10_630_01_ct1	2003-11-08 09:50	-28.0937	-45.9488
A10_631_01_ct1	2003-11-08 13:32	-28.1598	-45.6817
A10_632_01_ct1	2003-11-08 17:49	-28.2257	-45.4083
A10_X13_01_ct1	2003-11-30 10:29	-29.7533	9.9615
A10_X14_01_ct1	2003-11-23 00:32	-29.9917	-8.9953
A10_X15_01_ct1	2003-11-19 16:22	-30.1078	-19.0010
A10_X16_01_ct1	2003-11-17 17:59	-30.2172	-25.0462
A10_X17_01_ct1	2003-11-11 10:29	-30.0997	-39.0252
A10_X23_01_ct1	2003-11-12 09:27	-30.0055	-36.8785

Related Information

MIRAI MR03-K04 Leg4 Cruise Track



Enlarge Image

**MR03-K04 Leg4**  
Ship Name: MIRAI  
Period: 2003-11-06 - 2003-12-05  
Chief Scientist: Yasushi Yoshikawa (JAMSTEC)  
Project Name: [Blue Earth Global Expedition 2003,POST-WOCE Hydrography]

Update History

2017-04-11	An observation data was registerd.
2014-07-24	An observation data was registerd.
2012-12-25	An observation data was registerd.

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Detailed Search

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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:

