

## MIRAI MR03-K04 Leg2 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-04-11

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

Cruise ID: [MR03-K04 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/MR03-K04\\_leg2\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR03-K04_leg2_all.pdf)

### [For Using Data](#)

#### Principal Investigator

Hiroshi Uchida / Masao Fukasawa (JAMSTEC)

#### Use Constraints

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

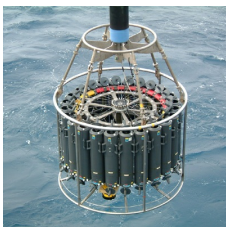
#### Data Citation

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

### Instrument

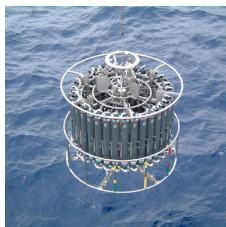
Instrument:

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



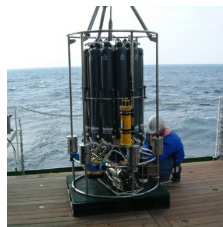
Instrument:

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



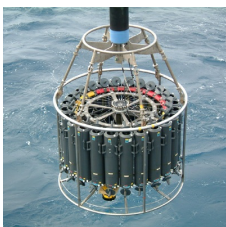
Instrument:

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



Instrument:

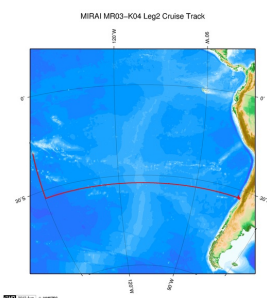
Conductivity temperature depth  
measurements (CTD)



### Overview

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

### Related Information



[Enlarge Image](#)

#### MR03-K04 Leg2

Ship Name: MIRAI

Period: 2003-09-09 - 2003-10-16

Chief Scientist: Shuichi Watanabe (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.

[Site Policy](#)  
[Privacy Policy](#)  
[Application for Data and Samples](#)  
[Data Policy](#)  
  
[What's New](#)  
[Update History](#)  
[Feeds](#)

[Publication List](#)  
[Amount of Public Info.](#)  
  
[Data](#)  
[Map Search](#)  
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[NATSUSHIMA](#)  
[KAIYO](#)  
[YOKOSUKA](#)  
[MIRAI](#)  
[KAIREI](#)  
[CHIKYU](#)  
[KAIMEI](#)  
[SHINSEI MARU](#)  
[HAKUHO MARU](#)

[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](#)

Cruise ID:

Go to a Dive Information

Dive ID:

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JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

## MIRAI MR03-K04 Leg2 Conductivity-Temperature-Depth Profiler (CTD)

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

Cruise ID: [MR03-K04 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

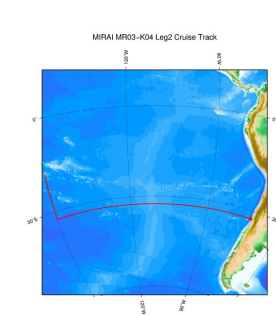
Data part

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](#)

#### MR03-K04 Leg2

Ship Name: MIRAI

Period: 2003-09-09 - 2003-10-16

Chief Scientist: Shuichi Watanabe (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.

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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## MIRAI MR03-K04 Leg2 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-04-11

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

Cruise ID: [MR03-K04 Leg2](#)

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

Data Policy: [JAMSTEC](#)

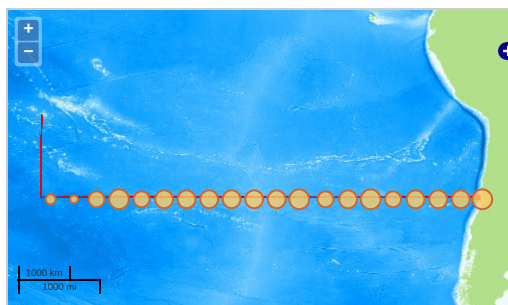
Observation Items: Pressure, Temperature, Salinity, Dissolved oxygen

Science Keywords:

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

### Observation Map

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

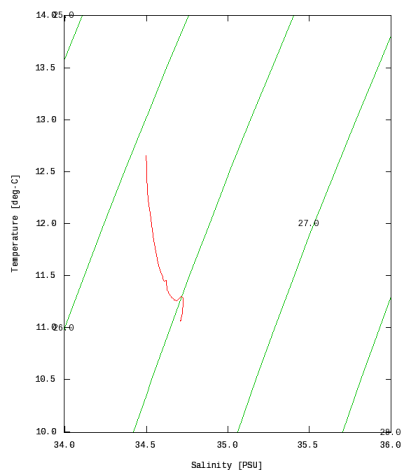
Imagery reproduced from ...

### Figures

P06\_004\_01\_ct1



MR03-K04 Leg2: P06\_004\_01\_ct1  
Conductivity-Temperature-Depth Profiler (CTD): Salinity























### Data List

[Add to Basket](#)

#### File names

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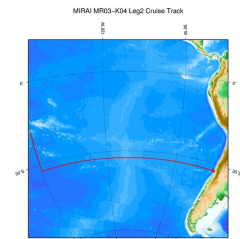
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 P06_125_02_ct1.csv
 P06_127_04_ct1.csv
 P06_X17_02_ct1.csv
 P06_X18_01_ct1.csv
 P06_X19_01_ct1.csv

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

Observation	Time and Date	Lat. [°]	Lon. [°]
P06_004_01_ct1	2003-10-12 08:06	-32.5003	-71.5003
P06_005_01_ct1	2003-10-12 06:37	-32.5000	-71.6715
P06_006_01_ct1	2003-10-12 04:02	-32.4997	-71.8343
P06_007_01_ct1	2003-10-12 00:01	-32.4930	-71.9968
P06_008_01_ct1	2003-10-11 20:02	-32.4972	-72.1702
P06_009_01_ct1	2003-10-11 15:51	-32.4808	-72.3240
P06_010_01_ct1	2003-10-11 10:39	-32.4965	-72.4875
P06_011_01_ct1	2003-10-11 04:35	-32.4942	-72.7105
P06_012_01_ct1	2003-10-10 22:38	-32.5058	-72.9948
P06_013_01_ct1	2003-10-10 17:28	-32.5048	-73.3287
P06_014_01_ct1	2003-10-10 12:04	-32.4955	-73.9957
P06_015_01_ct1	2003-10-10 06:29	-32.5000	-74.6643
P06_016_01_ct1	2003-10-10 00:52	-32.4930	-75.3237
P06_017_01_ct1	2003-10-09 19:06	-32.4980	-75.9923
P06_018_01_ct1	2003-10-09 13:33	-32.4980	-76.6538
P06_019_01_ct1	2003-10-09 08:11	-32.4975	-77.3213
P06_020_01_ct1	2003-10-09 02:41	-32.5010	-77.9918
P06_021_01_ct1	2003-10-08 21:12	-32.5098	-78.6517
P06_022_01_ct1	2003-10-08 15:56	-32.5003	-79.3237
P06_023_01_ct1	2003-10-08 10:53	-32.5077	-79.9932
P06_024_01_ct1	2003-10-07 05:16	-32.5072	-80.6640
P06_025_01_ct1	2003-10-06 23:48	-32.5022	-81.3243
P06_026_01_ct1	2003-10-06 18:37	-32.4973	-81.9990
P06_027_01_ct1	2003-10-06 13:17	-32.5045	-82.6672
P06_028_01_ct1	2003-10-06 08:02	-32.5023	-83.3413
P06_029_01_ct1	2003-10-06 02:35	-32.4995	-84.0083
P06_030_01_ct1	2003-10-05 21:13	-32.4983	-84.6723
P06_031_01_ct1	2003-10-05 15:57	-32.4997	-85.3390
P06_032_01_ct1	2003-10-05 10:29	-32.4988	-86.0067
P06_033_01_ct1	2003-10-05 04:42	-32.4970	-86.6723
P06_034_01_ct1	2003-10-04 23:13	-32.5020	-87.3357
P06_036_01_ct1	2003-10-04 12:40	-32.5027	-88.6683
P06_037_01_ct1	2003-10-04 07:02	-32.4998	-89.3403
P06_038_01_ct1	2003-10-04 01:40	-32.5008	-89.9900
P06_039_01_ct1	2003-10-03 20:09	-32.5072	-90.6687
P06_040_01_ct1	2003-10-03 15:02	-32.5103	-91.3245
P06_041_01_ct1	2003-10-03 09:50	-32.5035	-91.9920
P06_042_01_ct1	2003-10-03 04:05	-32.5100	-92.6640
P06_043_01_ct1	2003-10-02 22:57	-32.5073	-93.3315
P06_044_01_ct1	2003-10-02 17:54	-32.5078	-93.9932
P06_045_01_ct1	2003-10-02 12:33	-32.4988	-94.6617
P06_046_01_ct1	2003-10-02 07:19	-32.5073	-95.3315
P06_047_01_ct1	2003-10-02 02:06	-32.5000	-95.9957
P06_048_01_ct1	2003-10-01 20:37	-32.5050	-96.6612
P06_049_01_ct1	2003-10-01 15:16	-32.4995	-97.3353
P06_050_01_ct1	2003-10-01 10:25	-32.5030	-98.0023
P06_051_01_ct1	2003-10-01 05:10	-32.5082	-98.6640
P06_052_01_ct1	2003-09-30 23:33	-32.4993	-99.3342
P06_053_01_ct1	2003-09-30 18:02	-32.5027	-100.0030
P06_054_01_ct1	2003-09-30 12:55	-32.4942	-100.6668
P06_055_01_ct1	2003-09-29 02:12	-32.5117	-101.3210
P06_056_01_ct1	2003-09-28 20:55	-32.5087	-101.9922
P06_059_01_ct1	2003-09-28 08:01	-32.5003	-104.0017
P06_060_01_ct1	2003-09-28 03:02	-32.5003	-104.6703
P06_061_01_ct1	2003-09-27 21:09	-32.5027	-105.3403
P06_062_01_ct1	2003-09-27 15:45	-32.4993	-106.0165
P06_063_01_ct1	2003-09-27 10:33	-32.4975	-106.6710
P06_064_01_ct1	2003-09-27 05:29	-32.5000	-107.3300

Observation	Time and Date	Lat (°)	Lon (°)
P06_065_01_ct1	2003-09-27 09:03	-32.5052	-108.6102
P06_066_01_ct1	2003-09-26 19:04	-32.5048	-108.6790
P06_067_01_ct1	2003-09-26 08:33	-32.4958	-109.3403
P06_068_01_ct1	2003-09-26 03:10	-32.5065	-110.0063
P06_069_01_ct1	2003-09-25 22:00	-32.4885	-110.6678
P06_070_01_ct1	2003-09-25 17:11	-32.4980	-111.3332
P06_071_01_ct1	2003-09-25 12:27	-32.4978	-112.0022
P06_072_01_ct1	2003-09-25 07:25	-32.4920	-112.6695
P06_075_01_ct1	2003-09-25 02:26	-32.4985	-113.3325
P06_076_01_ct1	2003-09-24 21:25	-32.5013	-113.9903
P06_077_01_ct1	2003-09-24 16:34	-32.4978	-114.6645
P06_078_01_ct1	2003-09-24 11:27	-32.4942	-115.3322
P06_079_01_ct1	2003-09-24 06:12	-32.4853	-116.0082
P06_080_01_ct1	2003-09-24 01:21	-32.4903	-116.6502
P06_081_01_ct1	2003-09-23 19:46	-32.4907	-117.3175
P06_082_01_ct1	2003-09-23 13:27	-32.4997	-117.9873
P06_083_01_ct1	2003-09-23 07:48	-32.4983	-118.6620
P06_084_01_ct1	2003-09-23 02:09	-32.4925	-119.3382
P06_085_01_ct1	2003-09-22 20:52	-32.4928	-119.9957
P06_086_01_ct1	2003-09-22 15:14	-32.5020	-120.6623
P06_087_01_ct1	2003-09-22 09:59	-32.4992	-121.3227
P06_088_01_ct1	2003-09-22 04:51	-32.4985	-122.0022
P06_089_01_ct1	2003-09-21 23:40	-32.4867	-122.6605
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P06_103_01_ct1	2003-09-18 01:49	-32.4977	-132.0052
P06_104_01_ct1	2003-09-17 19:54	-32.4978	-132.6652
P06_105_01_ct1	2003-09-17 13:35	-32.4963	-133.3373
P06_106_01_ct1	2003-09-17 06:58	-32.4933	-134.0040
P06_108_01_ct1	2003-09-16 17:11	-32.4905	-135.3328
P06_109_01_ct1	2003-09-16 11:21	-32.4938	-136.0055
P06_110_01_ct1	2003-09-16 05:52	-32.4937	-136.6537
P06_111_01_ct1	2003-09-16 00:26	-32.5090	-137.3220
P06_112_01_ct1	2003-09-15 18:35	-32.5115	-137.9995
P06_113_01_ct1	2003-09-15 12:48	-32.5085	-138.6703
P06_114_01_ct1	2003-09-15 06:33	-32.5037	-139.3217
P06_115_01_ct1	2003-09-15 00:42	-32.5027	-139.9865
P06_116_01_ct1	2003-09-14 18:47	-32.5127	-140.6732
P06_117_01_ct1	2003-09-14 12:30	-32.4970	-141.4943
P06_118_01_ct1	2003-09-14 05:51	-32.4905	-142.3345
P06_119_01_ct1	2003-09-13 23:29	-32.5083	-143.1512
P06_120_01_ct1	2003-09-13 16:32	-32.5068	-143.9963
P06_125_02_ct1	2003-09-12 23:14	-32.5118	-148.1507
P06_127_04_ct1	2003-09-12 13:58	-32.5110	-149.8195
P06_X17_02_ct1	2003-09-16 23:53	-32.4670	-134.8513
P06_X18_01_ct1	2003-09-28 14:28	-32.4988	-103.0043
P06_X19_01_ct1	2003-10-04 18:04	-32.5010	-87.9952

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 Ship Name: MIRAI  
 Period: 2003-09-09 - 2003-10-16  
 Chief Scientist: Shuichi Watanabe (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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