

## MIRAI MR07-04 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-04-11

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

Cruise ID: [MR07-04](#)

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/MR07-04\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR07-04_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:

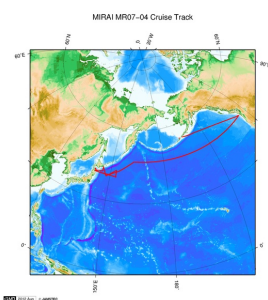
Conductivity temperature depth  
measurements (CTD)



### Overview

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

### Related Information



[Enlarge Image](#)

#### MR07-04

Ship Name: MIRAI

Period: 2007-07-24 - 2007-09-03

Chief Scientist: Takeshi Kawano (JAMSTEC)

Project Name: [POST-WOCE Hydrography]

### Update History

2017-04-11	An observation data was registerd.
2014-07-30	An observation data was registerd.
2012-10-27	An observation data was registerd.

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Site Policy  
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Application for Data and  
Samples  
Data Policy

What's New

Update History  
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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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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

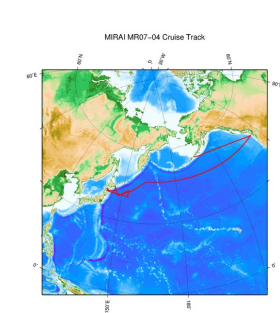
Data part

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](#)

#### MR07-04

Ship Name: MIRAI  
Period: 2007-07-24 - 2007-09-03  
Chief Scientist: Takeshi Kawano (JAMSTEC)  
Project Name: [POST-WOCE Hydrography]

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

Cruise ID: **MR07-04**

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

Data Policy: **JAMSTEC**

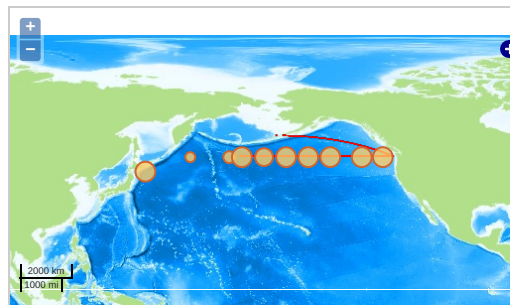
Observation Items: Pressure, Temperature, Salinity, Dissolved oxygen

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.



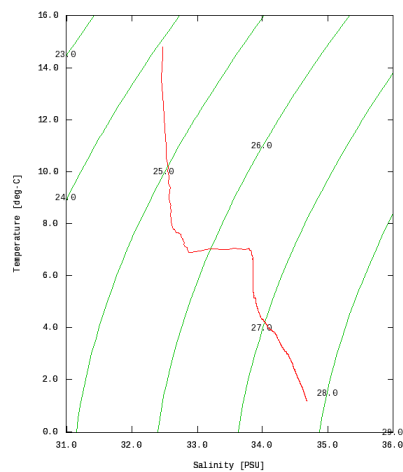
— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

### Figures

P01\_100\_1\_ct1



MR07-04:P01\_100\_1\_ct1  
Conductivity-Temperature-Depth Profiler (CTD):Salinity



### Data List

[Add to Basket](#)

#### File names

<input type="checkbox"/>	P01_100_1_ct1.csv
<input type="checkbox"/>	P01_101_1_ct1.csv
<input type="checkbox"/>	P01_102_1_ct1.csv
<input type="checkbox"/>	P01_103_1_ct1.csv
<input type="checkbox"/>	P01_104_1_ct1.csv
<input type="checkbox"/>	P01_105_1_ct1.csv
<input type="checkbox"/>	P01_106_1_ct1.csv
<input type="checkbox"/>	P01_107_1_ct1.csv
<input type="checkbox"/>	P01_108_1_ct1.csv
<input type="checkbox"/>	P01_109_1_ct1.csv
<input type="checkbox"/>	P01_110_1_ct1.csv
<input type="checkbox"/>	P01_111_1_ct1.csv

File names

ct1.csv

P01\_113\_1\_ct1.csv

P01\_114\_1\_ct1.csv

P01\_115\_1\_ct1.csv

P01\_11\_1\_ct1.csv

P01\_12\_1\_ct1.csv

P01\_13\_1\_ct1.csv

P01\_14\_1\_ct1.csv

P01\_15\_1\_ct1.csv

P01\_16\_1\_ct1.csv

P01\_17\_1\_ct1.csv

P01\_18\_1\_ct1.csv

P01\_19\_1\_ct1.csv

P01\_1\_1\_ct1.csv

P01\_20\_1\_ct1.csv

P01\_21\_1\_ct1.csv

P01\_22\_1\_ct1.csv

P01\_23\_1\_ct1.csv

P01\_24\_1\_ct1.csv

P01\_25\_1\_ct1.csv

P01\_26\_1\_ct1.csv

P01\_27\_1\_ct1.csv

P01\_28\_1\_ct1.csv

P01\_2\_1\_ct1.csv

P01\_3\_1\_ct1.csv

P01\_40\_1\_ct1.csv

P01\_44\_1\_ct1.csv

P01\_4\_1\_ct1.csv

P01\_58\_2\_ct1.csv

P01\_5\_1\_ct1.csv

P01\_60\_1\_ct1.csv

P01\_61\_1\_ct1.csv

P01\_62\_1\_ct1.csv

P01\_63\_1\_ct1.csv

P01\_64\_1\_ct1.csv

P01\_65\_1\_ct1.csv

P01\_66\_1\_ct1.csv

P01\_67\_1\_ct1.csv

P01\_68\_1\_ct1.csv

P01\_69\_1\_ct1.csv

P01\_6\_1\_ct1.csv

P01\_70\_1\_ct1.csv

P01\_71\_1\_ct1.csv

P01\_72\_1\_ct1.csv

P01\_73\_1\_ct1.csv

P01\_74\_1\_ct1.csv

P01\_76\_1\_ct1.csv

P01\_77\_1\_ct1.csv

P01\_78\_1\_ct1.csv

P01\_79\_1\_ct1.csv

P01\_7\_1\_ct1.csv

P01\_80\_1\_ct1.csv

P01\_81\_1\_ct1.csv

P01\_82\_1\_ct1.csv

P01\_83\_1\_ct1.csv

P01\_84\_1\_ct1.csv

P01\_85\_1\_ct1.csv

P01\_86\_1\_ct1.csv

P01\_87\_1\_ct1.csv

P01\_88\_1\_ct1.csv

P01\_89\_1\_ct1.csv

P01\_8\_1\_ct1.csv

P01\_90\_1\_ct1.csv

P01\_91\_1\_ct1.csv

P01\_92\_1\_ct1.csv

P01\_94\_1\_ct1.csv

P01\_95\_1\_ct1.csv

P01\_96\_1\_ct1.csv

P01\_97\_1\_ct1.csv

P01\_98\_1\_ct1.csv

P01\_99\_1\_ct1.csv

P01\_9\_1\_ct1.csv

P01\_X15\_1\_ct1.csv

P01\_X16\_1\_ct1.csv

P01\_X17\_1\_ct1.csv

● Observation List

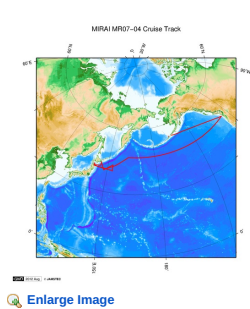
The list of observation is shown as follows.

Observation	Time and Date	Lat. [°]	Lon. [°]
P01_100_1_ct1	2007-08-26 10:35	46.9923	-136.8538
P01_101_1_ct1	2007-08-26 16:51	47.0000	-135.7345
P01_102_1_ct1	2007-08-26 22:58	47.0212	-134.6172
P01_103_1_ct1	2007-08-27 04:53	46.9920	-133.4665

Object	Time and Date	Lat	Long
P01_105_1_ct1	2007-08-27 16:20	47.0065	-131.2317
P01_106_1_ct1	2007-08-27 21:53	46.9802	-130.0310
P01_107_1_ct1	2007-08-28 01:51	46.9965	-129.3797
P01_108_1_ct1	2007-08-28 05:52	47.0030	-128.6433
P01_109_1_ct1	2007-08-28 10:01	46.9958	-127.9170
P01_10_1_ct1	2007-07-27 20:08	41.8665	146.3133
P01_110_1_ct1	2007-08-28 14:13	46.9942	-127.1990
P01_111_1_ct1	2007-08-28 18:21	47.0050	-126.4712
P01_112_1_ct1	2007-08-28 21:47	47.0052	-126.0028
P01_113_1_ct1	2007-08-29 01:10	47.0042	-125.5103
P01_114_1_ct1	2007-08-29 04:21	46.9990	-125.0580
P01_115_1_ct1	2007-08-29 07:08	46.9383	-124.9837
P01_11_1_ct1	2007-07-28 03:29	41.7103	146.4155
P01_12_1_ct1	2007-07-28 10:00	41.6715	146.5332
P01_13_1_ct1	2007-07-28 17:23	41.3573	146.6860
P01_14_1_ct1	2007-07-28 22:42	41.1300	146.8882
P01_15_1_ct1	2007-07-29 03:54	40.8650	147.0647
P01_16_1_ct1	2007-07-29 08:46	40.6267	147.2138
P01_17_1_ct1	2007-07-29 14:12	40.3877	147.3840
P01_18_1_ct1	2007-07-29 19:53	40.1335	147.5547
P01_19_1_ct1	2007-07-30 01:11	39.9487	147.7135
P01_1_1_ct1	2007-07-26 09:10	42.9715	145.4543
P01_20_1_ct1	2007-07-30 06:55	39.6945	147.9210
P01_21_1_ct1	2007-07-30 12:49	40.0218	148.4030
P01_22_1_ct1	2007-07-30 18:57	40.3213	148.8717
P01_23_1_ct1	2007-07-31 01:44	40.6235	149.3795
P01_24_1_ct1	2007-07-31 08:36	40.9278	149.8622
P01_25_1_ct1	2007-07-31 14:18	41.2613	150.3570
P01_26_1_ct1	2007-07-31 20:11	41.5622	150.8738
P01_27_1_ct1	2007-08-01 02:08	41.9402	151.4697
P01_28_1_ct1	2007-08-01 08:19	42.3297	152.0905
P01_2_1_ct1	2007-07-26 11:20	42.8893	145.5183
P01_3_1_ct1	2007-07-26 13:36	42.8552	145.5408
P01_40_1_ct1	2007-08-12 03:19	46.9958	162.2578
P01_44_1_ct1	2007-08-12 19:18	46.9913	166.7448
P01_4_1_ct1	2007-07-26 16:33	42.8142	145.5897
P01_58_2_ct1	2007-08-14 03:21	46.9973	176.0947
P01_5_1_ct1	2007-07-26 19:30	42.6440	145.6927
P01_60_1_ct1	2007-08-14 13:09	47.0028	178.3045
P01_61_1_ct1	2007-08-14 20:19	47.0125	179.4483
P01_62_1_ct1	2007-08-15 03:22	46.9947	-179.4295
P01_63_1_ct1	2007-08-15 10:31	46.9968	-178.3077
P01_64_1_ct1	2007-08-15 17:42	46.9993	-177.2105
P01_65_1_ct1	2007-08-16 00:59	47.0123	-176.0447
P01_66_1_ct1	2007-08-16 08:02	47.0052	-174.9547
P01_67_1_ct1	2007-08-16 15:13	47.0008	-173.7960
P01_68_1_ct1	2007-08-16 22:19	46.9957	-172.7060
P01_69_1_ct1	2007-08-17 05:40	47.0082	-171.5572
P01_6_1_ct1	2007-07-26 23:15	42.4895	145.8365
P01_70_1_ct1	2007-08-17 12:52	46.9992	-170.4295
P01_71_1_ct1	2007-08-17 19:48	46.9945	-169.3425
P01_72_1_ct1	2007-08-18 02:58	46.9998	-168.2105
P01_73_1_ct1	2007-08-18 09:47	47.0022	-167.0830
P01_74_1_ct1	2007-08-18 16:53	47.0118	-165.9802
P01_76_1_ct1	2007-08-19 07:26	47.0093	-163.7218
P01_77_1_ct1	2007-08-19 14:26	47.0025	-162.6202
P01_78_1_ct1	2007-08-19 21:31	47.0000	-161.4863
P01_79_1_ct1	2007-08-20 04:44	46.9975	-160.3612
P01_7_1_ct1	2007-07-27 03:25	42.2847	146.0533
P01_80_1_ct1	2007-08-20 11:24	46.9885	-159.2583
P01_81_1_ct1	2007-08-20 18:31	47.0043	-158.1392
P01_82_1_ct1	2007-08-21 01:30	47.0068	-157.0260
P01_83_1_ct1	2007-08-21 08:33	46.9943	-155.8630
P01_84_1_ct1	2007-08-21 15:21	46.9940	-154.7653
P01_85_1_ct1	2007-08-21 21:54	47.0000	-153.6277
P01_86_1_ct1	2007-08-22 04:34	46.9903	-152.5307
P01_87_1_ct1	2007-08-22 23:10	47.0018	-151.4153
P01_88_1_ct1	2007-08-23 06:00	46.9892	-150.2950
P01_89_1_ct1	2007-08-23 12:36	46.9917	-149.1445
P01_8_1_ct1	2007-07-27 08:14	42.1803	146.0863
P01_90_1_ct1	2007-08-23 19:17	47.0085	-148.0368
P01_91_1_ct1	2007-08-24 01:46	46.9982	-146.9277
P01_92_1_ct1	2007-08-24 08:11	46.9938	-145.8067
P01_94_1_ct1	2007-08-24 21:19	47.0152	-143.4973
P01_95_1_ct1	2007-08-25 03:27	47.0082	-142.4382
P01_96_1_ct1	2007-08-25 09:37	46.9892	-141.3530
P01_97_1_ct1	2007-08-25 16:02	47.0267	-140.2260
P01_98_1_ct1	2007-08-25 22:23	46.9952	-139.0657
P01_99_1_ct1	2007-08-26 04:33	46.9930	-137.9633
P01_9_1_ct1	2007-07-27 14:04	41.9825	146.2425
P01_X15_1_ct1	2007-08-18 23:38	46.9983	-164.9857

Observation	Time and Date	Lat. (°)	Lon. (°)
P01_X10_1_ct1	2007-08-22 17:49	46.9965	-151.9977
P01_X17_1_ct1	2007-08-24 15:25	46.9000	-144.4363

#### Related Information



**MR07-04**  
 Ship Name: MIRAI  
 Period: 2007-07-24 - 2007-09-03  
 Chief Scientist: Takeshi Kawano (JAMSTEC)  
 Project Name: [POST-WOCE Hydrography]

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 KAIIMEI  
 SHINSEI MARU  
 HAKUHO MARU

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 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** 国立研究開発法人  
 海洋研究開発機構  
 JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY