

## MIRAI MR09-01 Leg1 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-04-11

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

Cruise ID: [MR09-01 Leg1](#)

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/MR09-01\\_leg1-3\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR09-01_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:

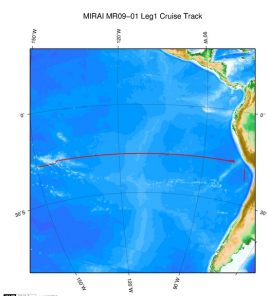
Conductivity temperature depth  
measurements (CTD)



### Overview

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

### Related Information



[Enlarge Image](#)

#### MR09-01 Leg1

Ship Name: MIRAI

Period: 2009-04-10 - 2009-05-19

Chief Scientist: Akihiko Murata (JAMSTEC)

Project Name: [POST-WOCE Hydrography, South Pacific Ocean Research Activity 2009]

### Update History

2017-04-11	An observation data was registerd.
2014-08-05	An observation data was registerd.
2012-09-28	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](#)  
[Data Tree](#)  
[Detailed Search](#)

[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:

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 MR09-01 Leg1 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-04-11

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

Cruise ID: [MR09-01 Leg1](#)

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

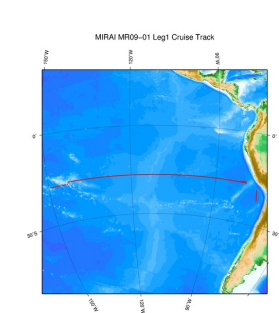
Data part

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](#)

#### MR09-01 Leg1

Ship Name: MIRAI

Period: 2009-04-10 - 2009-05-19

Chief Scientist: Akihiko Murata (JAMSTEC)

Project Name: [POST-WOCE Hydrography, South Pacific Ocean Research Activity 2009]

### Update History

2017-04-11	An observation data was registerd.
2014-08-05	An observation data was registerd.
2012-09-28	An observation data was registerd.

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

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 MR09-01 Leg1 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-04-11

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

Cruise ID: [MR09-01 Leg1](#)

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

Data Policy: [JAMSTEC](#)

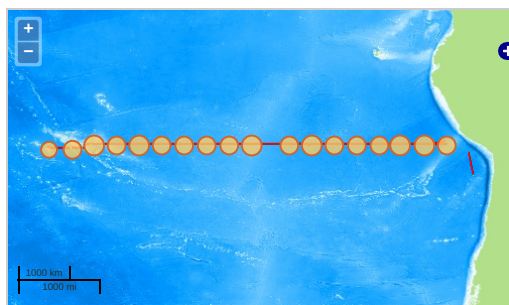
Observation Items: Pressure, Temperature, Salinity, Dissolved oxygen

Science Keywords:

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

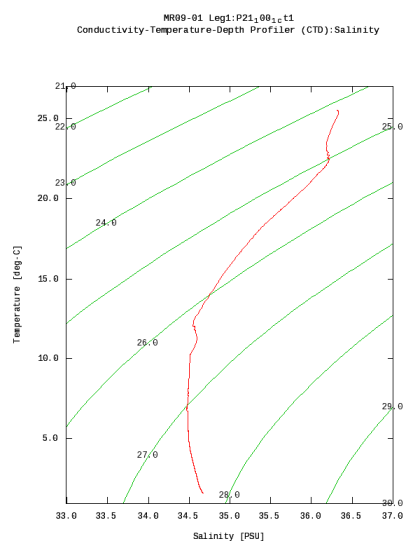
### Observation Map

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



### Figures

P21\_100\_1\_ct1



### Data List

[Add to Basket](#)

#### File names

- ☐ P21\_100\_1\_ct1.csv
- ☐ P21\_101\_1\_ct1.csv
- ☐ P21\_102\_1\_ct1.csv
- ☐ P21\_103\_1\_ct1.csv
- ☐ P21\_104\_1\_ct1.csv
- ☐ P21\_105\_1\_ct1.csv
- ☐ P21\_106\_1\_ct1.csv
- ☐ P21\_107\_1\_ct1.csv
- ☐ P21\_108\_1\_ct1.csv
- ☐ P21\_109\_1\_ct1.csv
- ☐ P21\_110\_1\_ct1.csv
- ☐ P21\_111\_1\_ct1.csv
- ☐ P21\_112\_1\_ct1.csv

	P21_113_1_ctl.csv
	P21_114_1_ctl.csv
	P21_115_1_ctl.csv
	P21_116_1_ctl.csv
	P21_117_1_ctl.csv
	P21_118_2_ctl.csv
	P21_119_1_ctl.csv
	P21_120_1_ctl.csv
	P21_121_1_ctl.csv
	P21_122_1_ctl.csv
	P21_123_1_ctl.csv
	P21_124_1_ctl.csv
	P21_125_1_ctl.csv
	P21_126_1_ctl.csv
	P21_127_1_ctl.csv
	P21_128_1_ctl.csv
	P21_129_1_ctl.csv
	P21_130_1_ctl.csv
	P21_131_1_ctl.csv
	P21_132_1_ctl.csv
	P21_133_1_ctl.csv
	P21_134_1_ctl.csv
	P21_135_1_ctl.csv
	P21_136_1_ctl.csv
	P21_137_1_ctl.csv
	P21_138_1_ctl.csv
	P21_139_1_ctl.csv
	P21_140_1_ctl.csv
	P21_141_1_ctl.csv
	P21_142_1_ctl.csv
	P21_143_1_ctl.csv
	P21_144_1_ctl.csv
	P21_145_1_ctl.csv
	P21_146_1_ctl.csv
	P21_147_1_ctl.csv
	P21_148_1_ctl.csv
	P21_149_1_ctl.csv
	P21_150_1_ctl.csv
	P21_151_1_ctl.csv
	P21_152_1_ctl.csv
	P21_153_1_ctl.csv
	P21_154_1_ctl.csv
	P21_155_1_ctl.csv
	P21_156_1_ctl.csv
	P21_157_1_ctl.csv
	P21_158_1_ctl.csv
	P21_159_1_ctl.csv
	P21_160_1_ctl.csv
	P21_29_1_ctl.csv
	P21_30_1_ctl.csv
	P21_31_1_ctl.csv
	P21_32_1_ctl.csv
	P21_33_1_ctl.csv
	P21_34_1_ctl.csv
	P21_35_1_ctl.csv
	P21_36_1_ctl.csv
	P21_37_1_ctl.csv
	P21_38_1_ctl.csv
	P21_39_1_ctl.csv
	P21_40_1_ctl.csv
	P21_41_1_ctl.csv
	P21_42_1_ctl.csv
	P21_43_1_ctl.csv
	P21_44_1_ctl.csv
	P21_45_1_ctl.csv
	P21_46_1_ctl.csv
	P21_47_1_ctl.csv
	P21_49_1_ctl.csv
	P21_50_1_ctl.csv
	P21_51_1_ctl.csv
	P21_52_1_ctl.csv
	P21_53_1_ctl.csv
	P21_54_1_ctl.csv
	P21_55_1_ctl.csv
	P21_56_1_ctl.csv
	P21_57_1_ctl.csv
	P21_58_1_ctl.csv
	P21_59_1_ctl.csv
	P21_60_1_ctl.csv
	P21_61_1_ctl.csv
	P21_62_1_ctl.csv
	P21_63_1_ctl.csv

File names
P21_65_1_ct1.csv
P21_66_1_ct1.csv
P21_67_1_ct1.csv
P21_68_1_ct1.csv
P21_69_1_ct1.csv
P21_70_1_ct1.csv
P21_71_1_ct1.csv
P21_72_1_ct1.csv
P21_73_1_ct1.csv
P21_74_1_ct1.csv
P21_75_1_ct1.csv
P21_76_1_ct1.csv
P21_77_1_ct1.csv
P21_78_1_ct1.csv
P21_79_1_ct1.csv
P21_80_1_ct1.csv
P21_85_1_ct1.csv
P21_86_1_ct1.csv
P21_87_1_ct1.csv
P21_88_1_ct1.csv
P21_89_1_ct1.csv
P21_90_1_ct1.csv
P21_95_1_ct1.csv
P21_96_1_ct1.csv
P21_97_2_ct1.csv
P21_98_1_ct1.csv
P21_99_1_ct1.csv
P21_X17_1_ct1.csv
P21_X18_1_ct1.csv
P21_X19_1_ct1.csv

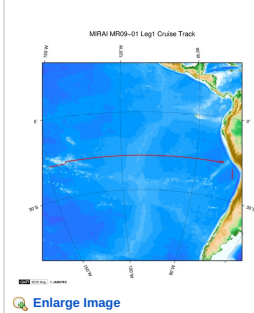
● Observation List  
The list of observation is shown as follows.

Observation	Time and Date	Lat. [°]	Lon. [°]
P21_100_1_ct1	2009-05-05 08:21	-16.7523	-113.3403
P21_101_1_ct1	2009-05-05 13:10	-16.7518	-114.0057
P21_102_1_ct1	2009-05-05 18:07	-16.7542	-114.6685
P21_103_1_ct1	2009-05-05 23:23	-16.7533	-115.3377
P21_104_1_ct1	2009-05-06 04:35	-16.7502	-116.0048
P21_105_1_ct1	2009-05-06 09:48	-16.7493	-116.6697
P21_106_1_ct1	2009-05-06 14:55	-16.7485	-117.3367
P21_107_1_ct1	2009-05-06 19:59	-16.7503	-118.0072
P21_108_1_ct1	2009-05-07 01:09	-16.7540	-118.6728
P21_109_1_ct1	2009-05-07 06:23	-16.7508	-119.3358
P21_110_1_ct1	2009-05-07 11:40	-16.7517	-120.0028
P21_111_1_ct1	2009-05-07 16:55	-16.7518	-120.6690
P21_112_1_ct1	2009-05-07 22:06	-16.7490	-121.3370
P21_113_1_ct1	2009-05-08 03:20	-16.7513	-122.0028
P21_114_1_ct1	2009-05-08 08:29	-16.7503	-122.6682
P21_115_1_ct1	2009-05-08 13:53	-16.7522	-123.3402
P21_116_1_ct1	2009-05-08 19:06	-16.7512	-124.0017
P21_117_1_ct1	2009-05-09 00:27	-16.7503	-124.6678
P21_118_2_ct1	2009-05-09 06:12	-16.7497	-125.3345
P21_119_1_ct1	2009-05-09 11:39	-16.7500	-126.0052
P21_120_1_ct1	2009-05-09 16:55	-16.7502	-126.6752
P21_121_1_ct1	2009-05-09 22:15	-16.7537	-127.3397
P21_122_1_ct1	2009-05-10 03:47	-16.7535	-128.0060
P21_123_1_ct1	2009-05-10 09:11	-16.7518	-128.6722
P21_124_1_ct1	2009-05-10 14:43	-16.7507	-129.3335
P21_125_1_ct1	2009-05-10 20:16	-16.7533	-129.9997
P21_126_1_ct1	2009-05-11 01:53	-16.7555	-130.6620
P21_127_1_ct1	2009-05-11 07:34	-16.7545	-131.3337
P21_128_1_ct1	2009-05-11 13:18	-16.7533	-131.9987
P21_129_1_ct1	2009-05-11 19:07	-16.7508	-132.6623
P21_130_1_ct1	2009-05-12 01:05	-16.7513	-133.3367
P21_131_1_ct1	2009-05-12 11:06	-16.7560	-134.0025
P21_132_1_ct1	2009-05-12 16:51	-16.7560	-134.6658
P21_133_1_ct1	2009-05-12 22:28	-16.7550	-135.3328
P21_134_1_ct1	2009-05-13 04:18	-16.7552	-136.0070
P21_135_1_ct1	2009-05-13 10:17	-16.7532	-136.6645
P21_136_1_ct1	2009-05-13 15:52	-16.7498	-137.3313
P21_137_1_ct1	2009-05-13 21:09	-16.7515	-137.9960
P21_138_1_ct1	2009-05-14 02:08	-16.7475	-138.6655
P21_139_1_ct1	2009-05-14 06:49	-16.7502	-139.3327
P21_140_1_ct1	2009-05-14 11:26	-16.7487	-139.9968
P21_141_1_ct1	2009-05-14 16:19	-16.7457	-140.6617
P21_142_1_ct1	2009-05-14 21:28	-16.7428	-141.3287
P21_143_1_ct1	2009-05-15 02:15	-16.7448	-141.9998
P21_144_1_ct1	2009-05-15 06:38	-16.7443	-142.6662
P21_145_1_ct1	2009-05-15 09:57	-16.9988	-142.8322
P21_146_1_ct1	2009-05-15 13:14	-17.2495	-142.9998
P21_147_1_ct1	2009-05-15 16:47	-17.4948	-143.1678

Observation	Time and Date	Lat. (°)	Lon. (°)
P21_148_1_ct1	2009-05-16 21:57	-17.4932	-145.8362
P21_149_1_ct1	2009-05-16 03:11	-17.4935	-144.5050
P21_150_1_ct1	2009-05-16 08:36	-17.4990	-145.1693
P21_151_1_ct1	2009-05-16 12:30	-17.4958	-145.5028
P21_152_1_ct1	2009-05-16 16:17	-17.4912	-145.8378
P21_153_1_ct1	2009-05-16 21:46	-17.4952	-146.5055
P21_154_1_ct1	2009-05-17 03:12	-17.5033	-147.1718
P21_155_1_ct1	2009-05-17 08:44	-17.5023	-147.8412
P21_156_1_ct1	2009-05-18 06:25	-17.4992	-149.3333
P21_157_1_ct1	2009-05-18 02:44	-17.4995	-149.1713
P21_158_1_ct1	2009-05-17 22:39	-17.4963	-148.9978
P21_159_1_ct1	2009-05-17 18:37	-17.4975	-148.8358
P21_160_1_ct1	2009-05-17 14:09	-17.5000	-148.5045
P21_29_1_ct1	2009-04-14 14:10	-16.7483	-78.7060
P21_30_1_ct1	2009-04-14 19:51	-16.7532	-79.3358
P21_31_1_ct1	2009-04-15 01:57	-16.7452	-79.9963
P21_32_1_ct1	2009-04-15 08:07	-16.7440	-80.6617
P21_33_1_ct1	2009-04-15 18:37	-16.7440	-81.3358
P21_34_1_ct1	2009-04-21 20:01	-16.7437	-82.0027
P21_35_1_ct1	2009-04-22 06:02	-16.7453	-82.6662
P21_36_1_ct1	2009-04-22 16:09	-16.7423	-83.3260
P21_37_1_ct1	2009-04-23 02:13	-16.7465	-83.9983
P21_38_1_ct1	2009-04-23 12:28	-16.7482	-84.6663
P21_39_1_ct1	2009-04-23 22:28	-16.7487	-85.3238
P21_40_1_ct1	2009-04-15 13:30	-16.7442	-81.0075
P21_41_1_ct1	2009-04-21 15:04	-16.7473	-81.6688
P21_42_1_ct1	2009-04-22 01:01	-16.7485	-82.3338
P21_43_1_ct1	2009-04-22 11:11	-16.7448	-82.9937
P21_44_1_ct1	2009-04-22 21:12	-16.7518	-83.6677
P21_45_1_ct1	2009-04-23 07:17	-16.7492	-84.3353
P21_46_1_ct1	2009-04-23 17:27	-16.7452	-84.9993
P21_47_1_ct1	2009-04-24 03:36	-16.7440	-85.6637
P21_49_1_ct1	2009-04-24 15:29	-16.7392	-86.9948
P21_50_1_ct1	2009-04-24 21:11	-16.7452	-87.6722
P21_51_1_ct1	2009-04-25 06:58	-16.7468	-88.3317
P21_52_1_ct1	2009-04-25 16:44	-16.7407	-89.0003
P21_53_1_ct1	2009-04-26 02:40	-16.7463	-89.6660
P21_54_1_ct1	2009-04-25 02:03	-16.7482	-87.9990
P21_55_1_ct1	2009-04-25 11:51	-16.7452	-88.6600
P21_56_1_ct1	2009-04-25 21:42	-16.7410	-89.3298
P21_57_1_ct1	2009-04-26 07:39	-16.7473	-89.9978
P21_58_1_ct1	2009-04-26 13:28	-16.7450	-90.6660
P21_59_1_ct1	2009-04-26 19:12	-16.7465	-91.3338
P21_60_1_ct1	2009-04-27 00:57	-16.7470	-92.0005
P21_61_1_ct1	2009-04-27 06:48	-16.7467	-92.6700
P21_62_1_ct1	2009-04-27 12:34	-16.7433	-93.3313
P21_63_1_ct1	2009-04-27 18:21	-16.7438	-93.9977
P21_64_1_ct1	2009-04-28 00:04	-16.7460	-94.6702
P21_65_1_ct1	2009-04-28 05:44	-16.7468	-95.3357
P21_66_1_ct1	2009-04-28 11:26	-16.7522	-96.0050
P21_67_1_ct1	2009-04-28 16:59	-16.7427	-96.6665
P21_68_1_ct1	2009-04-28 22:30	-16.7410	-97.3410
P21_69_1_ct1	2009-04-29 04:13	-16.7478	-98.0010
P21_70_1_ct1	2009-04-29 09:50	-16.7460	-98.6687
P21_71_1_ct1	2009-04-29 15:17	-16.7418	-99.3363
P21_72_1_ct1	2009-04-29 20:38	-16.7458	-100.0015
P21_73_1_ct1	2009-04-30 02:15	-16.7453	-100.6690
P21_74_1_ct1	2009-04-30 07:48	-16.7473	-101.3333
P21_75_1_ct1	2009-04-30 13:17	-16.7473	-102.0047
P21_76_1_ct1	2009-04-30 18:34	-16.7475	-102.6743
P21_77_1_ct1	2009-05-01 04:17	-16.7502	-103.3382
P21_78_1_ct1	2009-05-01 09:41	-16.7530	-104.0012
P21_79_1_ct1	2009-05-01 14:28	-16.7500	-104.6682
P21_80_1_ct1	2009-05-01 18:43	-16.7535	-105.3345
P21_85_1_ct1	2009-05-01 23:50	-16.7505	-106.0005
P21_86_1_ct1	2009-05-02 05:04	-16.7487	-106.6652
P21_87_1_ct1	2009-05-03 07:50	-16.7438	-107.3340
P21_88_1_ct1	2009-05-03 13:03	-16.7428	-108.0072
P21_89_1_ct1	2009-05-03 18:13	-16.7542	-108.6755
P21_90_1_ct1	2009-05-03 23:33	-16.7532	-109.3328
P21_95_1_ct1	2009-05-04 04:59	-16.7497	-109.9912
P21_96_1_ct1	2009-05-04 10:32	-16.7507	-110.6725
P21_97_2_ct1	2009-05-04 17:15	-16.7498	-111.3357
P21_98_1_ct1	2009-05-04 22:28	-16.7527	-112.0015
P21_99_1_ct1	2009-05-05 03:26	-16.7498	-112.6722
P21_X17_1_ct1	2009-05-12 06:12	-16.8728	-133.5588
P21_X18_1_ct1	2009-04-30 23:17	-17.0045	-103.0003
P21_X19_1_ct1	2009-04-24 09:49	-16.8333	-86.3862



#### Related Information



#### MR09-01 Leg1

Ship Name: MIRAI

Period: 2009-04-10 - 2009-05-19

Chief Scientist: Akihiko Murata (JAMSTEC)

Project Name: [POST-WOCE Hydrography, South Pacific Ocean Research Activity 2009]

#### Update History

2017-04-11	An observation data was registered.
2014-08-05	An observation data was registered.
2012-09-28	An observation data was registered.

#### 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

#### 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