

## MIRAI MR06-05 Leg1 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-06-22

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

Cruise ID: [MR06-05 Leg1](#)

Conductivity-Temperature-Depth Profiler (CTD): Processed (DMO)-QCed

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/MR06-05\\_leg1\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR06-05_leg1_all.pdf)

### For Using Data

#### Principal Investigator

Data Management Office

#### 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)



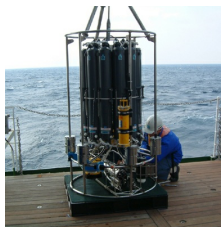
Instrument:

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

CTD(Conductivity-Temperature-Depth profiler) is used to observe the vertical profiles of temperature and conductivity.

Usually, this system is operated with multicylinder water sampler.

Observed signal is transmitted from sensor to the operation room on board using wire cable, and electric power is supplied from vessel to sensor.

Details of sensors attached to CTD system for MR06-05 Leg1 cruise are presented in "System".

The following software, developed and supplied by the Sea-Bird Electronics, Inc., was used in MR06-05 Leg1.

SEASAVE(ver 5.27b) for data acquisition

SEASOFT(ver 5.27b) for data processing

Data presented on this website is averaged over 1db.

### System

#### • Pressure sensor

Model : SBE9plus, Sea-Bird Electronics, Inc.

Serial number : 79492

Measurement range : up to 10500m

Accuracy : 0.015% F.S.

Resolution : 0.001% F.S.

#### • Temperature sensor

Model : SBE3, Sea-Bird Electronics, Inc.

Serial number : 031464

Measurement range : -5.0 to +35degC

Accuracy : 0.001degC

Resolution : 0.0002degC

#### • Salinity sensor

Model : SBE4, Sea-Bird Electronics, Inc.

Serial number : 041203

Measurement range : 0.0 to 7 S/m

Accuracy : 0.0003 S/m

Resolution : 0.00004 S/m

• DO sensor

Model : SBE43, Sea-Bird Electronics,Inc.

Serial number : 430330

Measurement range : 120% of surface saturation

Accuracy : 2% of saturation

Sensors used in each cast is as follows.

Cast name	Serial number of sensor			
	Pressure	Temperature	Salinity	Dissolved Oxygen
A15S01	79492	031464	041203	430330
A20S02	79492	031464	041203	430330
A05S03	79492	031464	041203	430330
A05S04	79492	031464	041203	430330
AD1S01	79492	031464	041203	430330
m01S01	79492	031464	041203	430330
m01S02	79492	031464	041203	430330
AD2S01	79492	031464	041203	430330
m02S01	79492	031464	041203	430330
m02S02	79492	031464	041203	430330
05S001	79492	031464	041203	430330
05S002	79492	031464	041203	430330
05S003	79492	031464	041203	430330
05S004	79492	031464	041203	430330
05S005	79492	031464	041203	430330
05S006	79492	031464	041203	430330
05S007	79492	031464	041203	430330
05S008	79492	031464	041203	430330
05S009	79492	031464	041203	430330
05S010	79492	031464	041203	430330
05S011	79492	031464	041203	430330
05S012	79492	031464	041203	430330
05S013	79492	031464	041203	430330
05S014	79492	031464	041203	430330
05S015	79492	031464	041203	430330
05S016	79492	031464	041203	430330
05S017	79492	031464	041203	430330
05S018	79492	031464	041203	430330
05S019	79492	031464	041203	430330
05S020	79492	031464	041203	430330
05S021	79492	031464	041203	430330
05S022	79492	031464	041203	430330
05S023	79492	031464	041203	430330
05S024	79492	031464	041203	430330
05S025	79492	031464	041203	430330
05S026	79492	031464	041203	430330
05S027	79492	031464	041203	430330
05S028	79492	031464	041203	430330
05S029	79492	031464	041203	430330
05S030	79492	031464	041203	430330
05S031	79492	031464	041203	430330
05S032	79492	031464	041203	430330
05S033	79492	031464	041203	430330
05S034	79492	031464	041203	430330
05S035	79492	031464	041203	430330
05S036	79492	031464	041203	430330
05S037	79492	031464	041203	430330
05S038	79492	031464	041203	430330
05S039	79492	031464	041203	430330
05S040	79492	031464	041203	430330
05S041	79492	031464	041203	430330
05S042	79492	031464	041203	430330
05S043	79492	031464	041203	430330
05S044	79492	031464	041203	430330
05S045	79492	031464	041203	430330
05S046	79492	031464	041203	430330
05S047	79492	031464	041203	430330
05S048	79492	031464	041203	430330
05S049	79492	031464	041203	430330
05S050	79492	031464	041203	430330
05S051	79492	031464	041203	430330
05S052	79492	031464	041203	430330
05S053	79492	031464	041203	430330
05S054	79492	031464	041203	430330
05S055	79492	031464	041203	430330
05S056	79492	031464	041203	430330
05S057	79492	031464	041203	430330
05S058	79492	031464	041203	430330

05S059	79492	031464	041203	430330
Cast name	Serial number of sensor	Pressure	Temperature	Salinity
05S060	79492	031464	041203	Dissolved Oxygen
05S061	79492	031464	041203	430330
05S062	79492	031464	041203	430330
05S063	79492	031464	041203	430330
05S064	79492	031464	041203	430330
05S065	79492	031464	041203	430330
05S066	79492	031464	041203	430330
05S067	79492	031464	041203	430330
05S068	79492	031464	041203	430330
05S069	79492	031464	041203	430330
05S070	79492	031464	041203	430330
05S071	79492	031464	041203	430330
05S072	79492	031464	041203	430330
05S073	79492	031464	041203	430330
05S074	79492	031464	041203	430330
05S075	79492	031464	041203	430330
05S076	79492	031464	041203	430330
05S077	79492	031464	041203	430330
05S078	79492	031464	041203	430330
05S079	79492	031464	041203	430330
05S080	79492	031464	041203	430330
05S081	79492	031464	041203	430330
05S082	79492	031464	041203	430330
05S083	79492	031464	041203	430330
05S084	79492	031464	041203	430330
05S085	79492	031464	041203	430330
05S086	79492	031464	041203	430330
05S087	79492	031464	041203	430330
05S088	79492	031464	041203	430330
05S089	79492	031464	041203	430330
05S090	79492	031464	041203	430330
05S091	79492	031464	041203	430330
05S092	79492	031464	041203	430330
05S093	79492	031464	041203	430330
05S094	79492	031464	041203	430330
05S095	79492	031464	041203	430330
05S096	79492	031464	041203	430330
05S097	79492	031464	041203	430330
05S098	79492	031464	041203	430330
05S099	79492	031464	041203	430330
05S100	79492	031464	041203	430330
05S101	79492	031464	041203	430330
05S102	79492	031464	041203	430330
05S103	79492	031464	041203	430330
05S104	79492	031464	041203	430330
05S105	79492	031464	041203	430330
05S106	79492	031464	041203	430330
05S107	79492	031464	041203	430330
05S108	79492	031464	041203	430330
05S109	79492	031464	041203	430330
05S110	79492	031464	041203	430330
05S111	79492	031464	041203	430330
05S112	79492	031464	041203	430330
05S113	79492	031464	041203	430330
05S114	79492	031464	041203	430330
05S115	79492	031464	041203	430330
05S116	79492	031464	041203	430330
05S117	79492	031464	041203	430330
05S118	79492	031464	041203	430330
05S119	79492	031464	041203	430330
05S120	79492	031464	041203	430330
05S121	79492	031464	041203	430330
05S122	79492	031464	041203	430330
05S123	79492	031464	041203	430330
05S124	79492	031464	041203	430330
05S125	79492	031464	041203	430330
05S126	79492	031464	041203	430330
05S127	79492	031464	041203	430330
05S128	79492	031464	041203	430330
05S129	79492	031464	041203	430330
05S130	79492	031464	041203	430330
05S131	79492	031464	041203	430330
05S132	79492	031464	041203	430330
05S133	79492	031464	041203	430330
05S134	79492	031464	041203	430330
05S135	79492	031464	041203	430330

05S136	79492	031464	041203	430330
Cast name	Serial number of sensor			
05S137	Pressure	Temperature	Salinity	Dissolved Oxygen
05S138	79492	031464	041203	430330
05S139	79492	031464	041203	430330
05S140	79492	031464	041203	430330
05S141	79492	031464	041203	430330
05S142	79492	031464	041203	430330
05S143	79492	031464	041203	430330
05S144	79492	031464	041203	430330
05S145	79492	031464	041203	430330
05S146	79492	031464	041203	430330
05S147	79492	031464	041203	430330
05S148	79492	031464	041203	430330
05S149	79492	031464	041203	430330
05S150	79492	031464	041203	430330
05S151	79492	031464	041203	430330
05S152	79492	031464	041203	430330
05S153	79492	031464	041203	430330
05S154	79492	031464	041203	430330
05S155	79492	031464	041203	430330
05S156	79492	031464	041203	430330
05S157	79492	031464	041203	430330
05S158	79492	031464	041203	430330
05S159	79492	031464	041203	430330
05S160	79492	031464	041203	430330
05S161	79492	031464	041203	430330
05S162	79492	031464	041203	430330
05S163	79492	031464	041203	430330
05S164	79492	031464	041203	430330
05S165	79492	031464	041203	430330
05S166	79492	031464	041203	430330
m03S01	79492	031464	041203	430330
AD3S01	79492	031464	041203	430330
EX1S01	79492	031464	041203	430330
EX1S02	79492	031464	041203	430330
m04S01	79492	031464	041203	430330
AD4S01	79492	031464	041203	430330
E24S01	79492	031464	041203	430330
E24S02	79492	031464	041203	430330
E24S03	79492	031464	041203	430330
E24S04	79492	031464	041203	430330
E24S05	79492	031464	041203	430330
E24S06	79492	031464	041203	430330
E24S07	79492	031464	041203	430330
E24S08	79492	031464	041203	430330
E24S09	79492	031464	041203	430330
E24S10	79492	031464	041203	430330
E24S11	79492	031464	041203	430330
E24S12	79492	031464	041203	430330
E24S13	79492	031464	041203	430330
E24S14	79492	031464	041203	430330
E24S15	79492	031464	041203	430330
E24S16	79492	031464	041203	430330
E24S17	79492	031464	041203	430330
E24S18	79492	031464	041203	430330
E24S19	79492	031464	041203	430330
E24S20	79492	031464	041203	430330
E24S21	79492	031464	041203	430330
E24S22	79492	031464	041203	430330
E24S23	79492	031464	041203	430330
E24S24	79492	031464	041203	430330
E24S25	79492	031464	041203	430330

**Calibration Information**

Calibration Information is as follows.

**Calibration Information**

**Data processing**

(1) Data processing sequence for SEASOFT is as follows;

command	function
datcnv	Convert raw data to engineering units, and store converted data in file.
alignctd	Align data relative to pressure(typically used for conductivity, temperature, and oxygen).
wildedit	Mark a data value with badflag to eliminate wild points.
celltm	Perform conductivity thermal mass correction.
filter	Low-pass filter columns of data.
wfilter	Median filter removes spikes of fluorometer data.
section	Extract rows of data from file.
loopedit	Mark a scan with badflag if scan fails pressure reversal or minimum velocity tests.
derive	Calculate oxygen (with oxygen sensor)

derive	Calculate oxygen. (with oxygen sensor)
<b>command</b>	<b>function</b>
binavg	Average data, basing bins on pressure, depth, scan number, or time range.
derive	Calculate salinity, density, etc..
split	Split data in file into upcast and downcast files.

## (2) Quality control

QCed data were added flag according to the NODC (National Oceanographic Data Center) quality control procedure.

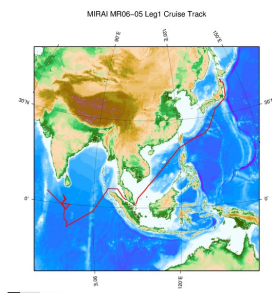
- 1) The gradient check of adjacent depth data
- 2) The density inversion check
- 3) The broad range check set up at given ocean space and depth

Please see the site of NODC of the following link for quality control procedure in detail.

[QUALITY CONTROL AND PROCESSING OF HISTORICAL OCEANOGRAPHIC TEMPERATURE, SALINITY, AND OXYGEN DATA](#)

In addition, an abnormal value is identified by a visual check, and the data after visual QC is released.

## Related Information



[Enlarge Image](#)

### MR06-05 Leg1

Ship Name: MIRAI

Period: 2006-10-03 - 2006-11-27

Chief Scientist: Kunio Yoneyama (JAMSTEC)

Project Name: [Mirai Indian ocean cruise for the Study of the MJO convection Onset, MJO Research]

## Update History

2017-06-22	An observation data was registered.
2014-07-29	An observation data was registered.
2014-02-07	An observation data was registered.
2013-03-27	An observation data was registered.
2012-11-25	An observation data was registered.

### JAMSTEC

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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**

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 MR06-05 Leg1 Conductivity-Temperature-Depth Profiler (CTD)

Last Modified: 2017-06-22

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

 Cruise ID: [MR06-05 Leg1](#)

Conductivity-Temperature-Depth Profiler (CTD): Processed (DMO)-QCed

 Data Policy: [JAMSTEC](#)

### CTD DMO

#### Format Description for the Corrected 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'.

#### Definition of Quality Control Flags

##### 1. Depth Flags

- 0 - accepted value
- 1 - error in recorded depth ( same or less than previous depth )
- 2 - density inversion

##### 2. Observed Level Flags

- N - missing value
- 0 - accepted value
- 1 - range outlier ( outside of broad range check )
- 2 - failed inversion check
- 3 - failed gradient check
- 4 - zero anomaly
- 5 - failed combined gradient and inversion checks
- 6 - failed range and inversion checks
- 7 - failed range and gradient checks
- 8 - failed range and zero anomaly checks
- 9 - failed range and combined gradient and inversion checks
- A - failed visual check

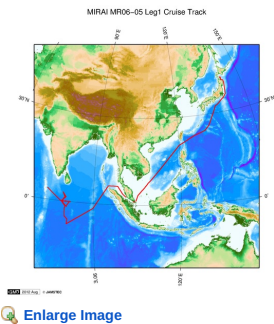
QCed data were added flag according to the NODC (National Oceanographic Data Center) quality control procedure, additionally visually checked. Please see the site of NODC of the following link for quality control procedure.

[QUALITY CONTROL AND PROCESSING OF HISTORICAL OCEANOGRAPHIC TEMPERATURE, SALINITY, AND OXYGEN DATA](#)

#### Sample Program

[ex\\_read2.f](#)

#### Related Information



#### MR06-05 Leg1

Ship Name: MIRAI

Period: 2006-10-03 - 2006-11-27

Chief Scientist: Kunio Yoneyama (JAMSTEC)

Project Name: [Mirai Indian ocean cruise for the Study of the MJO convection Onset,MJO Research]

#### Update History

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[Data Policy](#)

[What's New](#)

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[Feeds](#)

#### Lists

[Publication List](#)

[Amount of Public Info.](#)

#### Data

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[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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**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 MR06-05 Leg1 Conductivity-Temperature-Depth Profiler (CTD)

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Conductivity-Temperature-Depth Profiler (CTD): Processed (DMO)-QCed

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Observation Items: Pressure, Temperature, Salinity, Dissolved oxygen

Science Keywords:

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

### Observation Map

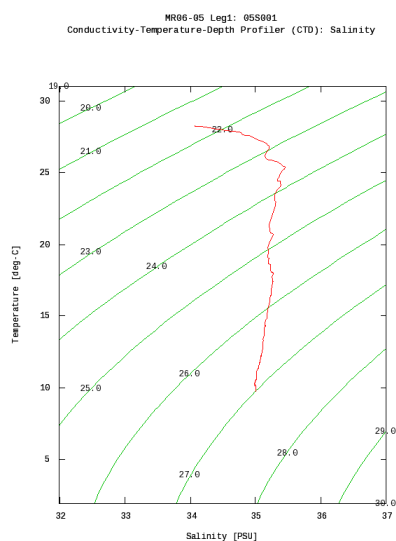
1. Clicking the icon displays a balloon with observation information.
2. Then click the observation name, figures will be displayed.



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

### Figures

05S001



Only values evaluated as "good : all flags are 0" are plotted in profiles.  
Please see Format Page for the definition of quality flags.

### Data List

[Add to Basket](#)

#### File names




















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File names

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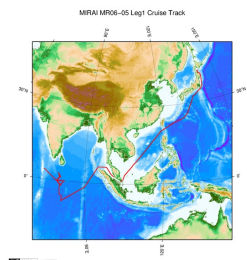
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	m01S02.dat
	m02S01.dat
	m02S02.dat
	m03S01.dat
	m04S01.dat
	ex_read2.f (Sample Program)

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

Observation	Time and Date	Lat. [°]	Lon. [°]
05S001	2006-10-27 23:28	-0.0031	80.4991
05S002	2006-10-28 02:27	0.0000	80.5010
05S003	2006-10-28 05:21	0.0086	80.5056
05S004	2006-10-28 08:23	0.0036	80.4998
05S005	2006-10-28 11:25	-0.0011	80.4993
05S006	2006-10-28 14:24	0.0000	80.4816
05S007	2006-10-28 17:30	0.0025	80.4788
05S008	2006-10-28 20:28	-0.0051	80.4793
05S009	2006-10-28 23:49	-0.0078	80.4731
05S010	2006-10-29 02:30	-0.0010	80.4830
05S011	2006-10-29 05:30	0.0008	80.4866
05S012	2006-10-29 08:26	-0.0018	80.4841
05S013	2006-10-29 11:26	-0.0001	80.4845
05S014	2006-10-29 14:25	0.0001	80.4828
05S015	2006-10-29 17:32	-0.0008	80.4803
05S016	2006-10-29 20:28	0.0000	80.4826
05S017	2006-10-29 23:27	0.0010	80.4850
05S018	2006-10-30 02:29	0.0003	80.4860
05S019	2006-10-30 05:28	-0.0011	80.4850
05S020	2006-10-30 08:26	-0.0018	80.4823
05S021	2006-10-30 11:26	-0.0005	80.4826
05S022	2006-10-30 14:26	-0.0010	80.4863
05S023	2006-10-30 17:29	-0.0023	80.4805
05S024	2006-10-30 20:28	-0.0005	80.4716
05S025	2006-10-30 23:30	0.0018	80.4838
05S026	2006-10-31 02:30	-0.0033	80.4845
05S027	2006-10-31 05:30	-0.0013	80.4811
05S028	2006-10-31 08:29	-0.0075	80.4823
05S029	2006-10-31 11:29	-0.0010	80.4841
05S030	2006-10-31 14:27	0.0005	80.4855
05S031	2006-10-31 17:28	-0.0005	80.4831
05S032	2006-10-31 20:28	-0.0003	80.4825
05S033	2006-10-31 23:28	-0.0006	80.4861
05S034	2006-11-01 02:30	-0.0001	80.4863
05S035	2006-11-01 05:31	-0.0005	80.4900
05S036	2006-11-01 08:27	0.0018	80.4836
05S037	2006-11-01 11:26	0.0026	80.4813
05S038	2006-11-01 14:26	0.0001	80.4818
05S039	2006-11-01 17:28	-0.0030	80.4826
05S040	2006-11-01 20:29	-0.0011	80.4841
05S041	2006-11-01 23:28	0.0028	80.4830
05S042	2006-11-02 02:30	0.0006	80.4810
05S043	2006-11-02 05:31	-0.0051	80.4825
05S044	2006-11-02 08:27	0.0010	80.4850
05S045	2006-11-02 11:26	0.0000	80.4830
05S046	2006-11-02 14:26	-0.0026	80.4838
05S047	2006-11-02 17:29	-0.0035	80.4816
05S048	2006-11-02 20:28	0.0023	80.4886

Observation	Time and Date	Lat. [°]	Lon. [°]
05S049	2006-11-02 23:28	0.0016	80.4838
05S050	2006-11-03 02:29	0.0010	80.4825
05S051	2006-11-03 05:30	0.0005	80.4840
05S052	2006-11-03 08:26	-0.0033	80.4820
05S053	2006-11-03 11:26	0.0023	80.4903
05S054	2006-11-03 14:27	0.0013	80.4846
05S055	2006-11-03 17:29	0.0023	80.4896
05S056	2006-11-03 20:28	0.0005	80.4841
05S057	2006-11-03 23:28	-0.0003	80.4850
05S058	2006-11-04 02:31	-0.0001	80.4848
05S059	2006-11-04 05:28	0.0008	80.4821
05S060	2006-11-04 08:27	0.0020	80.4853
05S061	2006-11-04 11:26	0.0008	80.4845
05S062	2006-11-04 14:27	0.0008	80.4846
05S063	2006-11-04 17:29	0.0018	80.4825
05S064	2006-11-04 20:28	0.0011	80.4800
05S065	2006-11-04 23:28	0.0006	80.4850
05S066	2006-11-05 02:27	0.0000	80.4850
05S067	2006-11-05 05:27	0.0013	80.4836
05S068	2006-11-05 08:26	-0.0001	80.4841
05S069	2006-11-05 11:26	-0.0005	80.4836
05S070	2006-11-05 14:27	0.0008	80.4830
05S071	2006-11-05 17:29	0.0026	80.4835
05S072	2006-11-05 20:27	0.0011	80.4838
05S073	2006-11-05 23:28	0.0013	80.4818
05S074	2006-11-06 02:29	0.0006	80.4846
05S075	2006-11-06 05:33	0.0005	80.4820
05S076	2006-11-06 08:26	0.0008	80.4830
05S077	2006-11-06 11:19	-0.0005	80.4841
05S078	2006-11-06 14:21	0.0003	80.4823
05S079	2006-11-06 17:28	-0.0003	80.4801
05S080	2006-11-06 20:28	0.0003	80.4835
05S081	2006-11-06 23:27	-0.0005	80.4840
05S082	2006-11-07 02:27	0.0003	80.4818
05S083	2006-11-07 05:29	0.0010	80.4821
05S084	2006-11-07 08:26	-0.0005	80.4810
05S085	2006-11-07 11:24	0.0031	80.4818
05S086	2006-11-07 14:25	0.0000	80.4840
05S087	2006-11-07 17:29	0.0028	80.4830
05S088	2006-11-07 20:29	0.0020	80.4833
05S089	2006-11-07 23:28	0.0013	80.4843
05S090	2006-11-08 02:28	-0.0008	80.4818
05S091	2006-11-08 05:29	0.0015	80.4816
05S092	2006-11-08 08:27	0.0023	80.4815
05S093	2006-11-08 11:27	0.0016	80.4830
05S094	2006-11-08 14:26	0.0023	80.4823
05S095	2006-11-08 17:28	0.0023	80.4818
05S096	2006-11-08 20:29	0.0003	80.4836
05S097	2006-11-08 23:28	0.0003	80.4813
05S098	2006-11-09 02:27	0.0013	80.4820
05S099	2006-11-09 05:27	0.0006	80.4808
05S100	2006-11-09 08:26	-0.0015	80.4848
05S101	2006-11-09 11:26	-0.0021	80.4828
05S102	2006-11-09 14:25	0.0026	80.4825
05S103	2006-11-09 17:25	-0.0001	80.4833
05S104	2006-11-09 20:29	0.0020	80.4815
05S105	2006-11-09 23:21	0.0000	80.4845
05S106	2006-11-10 02:18	0.0005	80.4853
05S107	2006-11-10 05:28	0.0016	80.4811
05S108	2006-11-10 08:26	0.0008	80.4835
05S109	2006-11-10 11:26	0.0023	80.4810
05S110	2006-11-10 14:27	0.0006	80.4810
05S111	2006-11-10 17:29	0.0016	80.4806
05S112	2006-11-10 20:28	-0.0015	80.4838
05S113	2006-11-10 23:21	-0.0003	80.4823
05S114	2006-11-11 05:25	-0.0001	80.4831
05S115	2006-11-11 08:26	0.0028	80.4830
05S116	2006-11-11 11:28	-0.0006	80.4805
05S117	2006-11-11 17:28	-0.0005	80.4825
05S118	2006-11-11 23:27	-0.0003	80.4848
05S119	2006-11-12 05:26	0.0003	80.4845
05S120	2006-11-12 08:27	-0.0006	80.4840
05S121	2006-11-12 11:25	0.0026	80.4825
05S122	2006-11-12 17:28	-0.0015	80.4820
05S123	2006-11-12 23:26	0.0008	80.4821
05S124	2006-11-13 05:28	0.0033	80.4751
05S125	2006-11-13 08:29	0.0000	80.4830
05S126	2006-11-13 11:26	0.0016	80.4818
05S127	2006-11-13 17:28	-0.0005	80.4821
05S128	2006-11-13 23:26	0.0001	80.4846
05S129	2006-11-14 05:24	-0.0008	80.4831

Observation	Time and Date	Lat (°)	Lon (°)
05S130	2006-11-14 08:25	0.0099	80.4839
05S131	2006-11-14 11:27	-0.0011	80.4841
05S132	2006-11-14 17:28	-0.0013	80.4840
05S133	2006-11-14 23:26	-0.0008	80.4838
05S134	2006-11-15 05:28	0.0000	80.4836
05S135	2006-11-15 08:27	0.0011	80.4828
05S136	2006-11-15 11:28	-0.0001	80.4846
05S137	2006-11-15 17:28	-0.0015	80.4826
05S138	2006-11-15 23:27	0.0006	80.4831
05S139	2006-11-16 05:25	-0.0001	80.4826
05S140	2006-11-16 08:25	0.0001	80.4818
05S141	2006-11-16 11:27	-0.0018	80.4828
05S142	2006-11-16 17:28	-0.0005	80.4840
05S143	2006-11-16 23:26	-0.0005	80.4816
05S144	2006-11-17 05:20	-0.0005	80.4795
05S145	2006-11-17 08:27	-0.0001	80.4828
05S146	2006-11-17 11:27	-0.0003	80.4808
05S147	2006-11-17 17:28	-0.0016	80.4831
05S148	2006-11-17 23:26	-0.0005	80.4838
05S149	2006-11-18 05:27	0.0003	80.4820
05S150	2006-11-18 08:23	0.0006	80.4830
05S151	2006-11-18 11:17	0.0018	80.4836
05S152	2006-11-18 17:28	-0.0011	80.4835
05S153	2006-11-18 23:26	-0.0001	80.4825
05S154	2006-11-19 05:21	0.0005	80.4823
05S155	2006-11-19 08:28	0.0001	80.4826
05S156	2006-11-19 11:27	0.0038	80.4818
05S157	2006-11-19 17:28	0.0010	80.4818
05S158	2006-11-19 23:19	-0.0008	80.4826
05S159	2006-11-20 05:18	-0.0003	80.4828
05S160	2006-11-20 08:18	-0.0005	80.4838
05S161	2006-11-20 11:26	-0.0001	80.4821
05S162	2006-11-20 17:28	-0.0001	80.4833
05S163	2006-11-20 23:26	-0.0010	80.4813
05S164	2006-11-21 05:27	0.0000	80.4825
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05S166	2006-11-21 11:26	0.0001	80.4825
A05S03	2006-10-22 17:07	-0.5133	79.5138
A05S04	2006-10-22 21:40	0.4971	79.4956
A15S01	2006-10-21 06:28	-7.6666	80.7523
A20S02	2006-10-22 13:17	-1.0088	80.0083
AD1S01	2006-10-24 07:56	1.5775	80.5296
AD2S01	2006-10-26 05:31	-1.4951	80.3368
AD3S01	2006-11-22 11:41	-0.0006	82.0325
AD4S01	2006-11-24 10:22	0.0020	78.8450
E24S01	2006-11-24 18:23	0.0041	78.8435
E24S02	2006-11-24 19:23	0.0010	78.8450
E24S03	2006-11-24 20:25	0.0033	78.8421
E24S04	2006-11-24 21:24	0.0031	78.8473
E24S05	2006-11-24 22:23	0.0026	78.8486
E24S06	2006-11-24 23:24	0.0020	78.8451
E24S07	2006-11-25 00:26	0.0028	78.8455
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E24S11	2006-11-25 04:26	0.0041	78.8425
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E24S13	2006-11-25 06:28	0.0016	78.8450
E24S14	2006-11-25 07:24	0.0028	78.8438
E24S15	2006-11-25 08:25	0.0023	78.8451
E24S16	2006-11-25 09:25	0.0020	78.8448
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E24S19	2006-11-25 12:26	0.0026	78.8448
E24S20	2006-11-25 13:27	0.0021	78.8448
E24S21	2006-11-25 14:27	0.0030	78.8455
E24S22	2006-11-25 15:26	0.0020	78.8463
E24S23	2006-11-25 16:28	0.0018	78.8445
E24S24	2006-11-25 17:29	0.0011	78.8445
E24S25	2006-11-25 18:26	0.0011	78.8448
EX1S01	2006-11-23 01:23	-0.0175	79.0253
EX1S02	2006-11-23 11:28	-0.0175	79.0215
m01S01	2006-10-25 06:42	0.0218	79.0430
m01S02	2006-10-25 12:10	0.0398	78.9990
m02S01	2006-10-27 07:27	-0.0016	81.9126
m02S02	2006-10-27 12:12	-0.0013	81.8951
m03S01	2006-11-22 00:23	-0.0151	81.8700
m04S01	2006-11-24 00:25	-0.0153	79.0258



MIRAI MR06-05 Leg1 Cruise Track

[Enlarge Image](#)

**MR06-05 Leg1**  
Ship Name: MIRAI  
Period: 2006-10-03 - 2006-11-27  
Chief Scientist: Kunio Yoneyama (JAMSTEC)  
Project Name: [Mirai Indian ocean cruise for the Study of the MJO convection Onset,MJO Research]

Update History	
2017-06-22	An observation data was registerd.
2014-07-29	An observation data was registerd.
2014-02-07	An observation data was registerd.
2013-03-27	An observation data was registerd.
2012-11-25	An observation data was registerd.

JAMSTEC

Site Policy

Privacy Policy

Application for Data and Samples

Data Policy

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Update History

Feeds

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Publication List

Amount of Public Info.

Data

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Data Tree

Detailed Search

Information of the Ships

NATSUSHIMA

KAIYO

YOKOSUKA

MIRAI

KAIREI

CHIKYU

KAIIMEI

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

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