

## MIRAI MR12-05 Leg1 Bottle Sampling Water Chemical Analysis

Last Modified: 2018-01-25

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

Cruise ID: [MR12-05 Leg1](#)

Bottle Sampling Water Chemical Analysis: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items: Temperature, Salinity, Dissolved oxygen, Transmittance, Fluorescence, Chlorophyll, PAR

Science Keywords:

OCEANS > OCEAN CHEMISTRY > OXYGEN  
OCEANS > OCEAN CHEMISTRY > SALINITY  
OCEANS > OCEAN CHEMISTRY > CHLOROPHYLL  
OCEANS > OCEAN TEMPERATURE > WATER TEMPERATURE  
OCEANS > SALINITY/DENSITY > SALINITY  
OCEANS > OCEAN OPTICS > PHOTOSYNTHETICALLY ACTIVE RADIATION  
OCEANS > OCEAN OPTICS > FLUORESCENCE

Cruise Report

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/MR12-05\\_leg1-3\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR12-05_leg1-3_all.pdf)

### For Using Data

#### Principal Investigator

CTDTMP : Hiroshi Uchida (JAMSTEC)  
SBE35 : Hiroshi Uchida (JAMSTEC)  
CTDSAL : Hiroshi Uchida (JAMSTEC)  
SALNTY : Hiroshi Uchida (JAMSTEC)  
CTDOXY : Hiroshi Uchida (JAMSTEC)  
OXYGEN : Yuichiro Kumamoto (JAMSTEC)  
XMISS : Hiroshi Uchida (JAMSTEC)  
FLUOR : Hiroshi Uchida (JAMSTEC)  
CHLORA : Hiroshi Uchida (JAMSTEC)  
PAR : Hiroshi Uchida (JAMSTEC)

#### Use Constraints

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

#### Data Citation

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

### Instrument

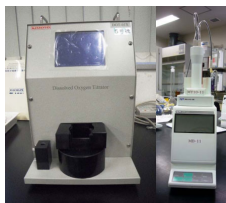
Instrument:

Salinity measurement system



Instrument:

Titration for DO Dissolved oxygen titration equipment (MR11-06 - )



Instrument:

Fluorometer (TURNER DESIGNS)



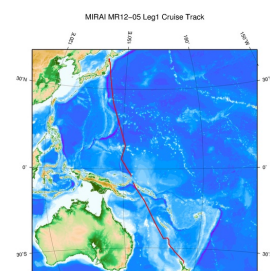
### Overview

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

### About this data

There are some description error for nutrient data of this cruise.  
Please refer to the errata of the cruise report.

### Related Information



[Enlarge Image](#)

#### MR12-05 Leg1

Ship Name: MIRAI

Period: 2012-11-05 - 2012-11-25

Chief Scientist: Katsuro Katsumata (JAMSTEC)

Proposal ▶ WOCE-revisit in the western Pacific and Southern oceans

Title:

### Update History

2018-01-25	An observation data was registerd.
2017-04-11	An observation data was registerd.
2015-05-31	An observation data was registerd.

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#### Information of the Submersibles

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[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

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**JAMSTEC**

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海洋研究開発機構  
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

## MIRAI MR12-05 Leg1 Bottle Sampling Water Chemical Analysis

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ReadMe Observation Data **Data Format** Quality Information

Cruise ID: [MR12-05 Leg1](#)

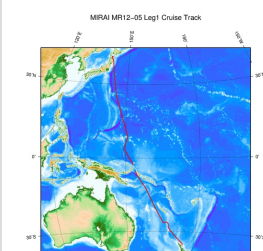
Bottle Sampling Water Chemical Analysis: Processed (PI)

Data Policy: [JAMSTEC](#)

### DATA Format

Column No.	Column Heading Mnemonic	Units Mnemonic	Reporting Precision FORTRAN Format	Comments
1	EXPCODE		A14	ExpoCode
2	SECT		I6	Section ID
3	STNNBR		A6	Station Number
4	CASTNO		I3	Cast Number
5	SAMPNO		A7	Sample Number
6	BTLNBR		A7	Bottle Number
7	BTLNBR_FLAG_W		I1	Bottle quality flags
8	DATE		I8	Cast date
9	TIME	UTC	I4	Cast time
10	LATITUDE	DEG	F8.4	-
11	LONGITUDE	DEG	F9.4	-
12	DEPTH	METERS	I5	Bottom depth
13	CTDPRS	DBAR	F9.1	Pressure
14	CTDPRS_FLAG_W		I1	Quality flags for CTD data
15	CTDTMP	ITS-90	F9.4	Temperature
16	CTDTMP_FLAG_W		I1	Quality flags for CTD data
17	SBE35	ITS-90	F10.5	Temperature from Deep Ocean Standards Thermometer
18	SBE35_FLAG_W		I1	Quality flags for CTD data
19	CTDSAL	PSS-78	F9.4	Salinity
20	CTDSAL_FLAG_W		I1	Quality flags for CTD data
21	SALNTY	PSS-78	F9.4	Bottle Salinity
22	SALNTY_FLAG_W		I1	Quality flags for water samples
23	CTDOXY	UMOL/KG	F9.2	Oxygen_CTD
24	CTDOXY_FLAG_W		I1	Quality flags for CTD data
25	OXYGEN	UMOL/KG	F9.2	Oxygen
26	OXYGEN_FLAG_W		I1	Quality flags for water samples
27	XMISS	%TRANS	F9.3	Transmissometer
28	XMISSCP	/METER	F9.4	Beam attenuation coefficient
29	XMISS_FLAG_W		I1	Quality flags for CTD data
30	FLUOR	MG/CUM	F9.3	Fluorescence
31	FLUOR_FLAG_W		I1	Quality flags for CTD data
32	CHLORA	MG/CUM	F9.2	Chlorophyll a
33	CHLORA_FLAG_W		I1	Quality flags for water samples
34	PAR	UE/SQM/S	F9.3	PAR
35	PAR_FLAG_W		I1	Quality flags for CTD data

### Related Information



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#### MR12-05 Leg1

Ship Name: MIRAI  
Period: 2012-11-05 - 2012-11-25  
Chief Scientist: Katsuro Katsumata (JAMSTEC)  
Proposal ▶ WOCE-revisit in the western Pacific and Southern oceans  
Title:

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2018-01-25 An observation data was registered.  
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6K Sonar DEEP TOW  
KM-ROV  
POWER GRAB  
SAMPLER (SHELL)

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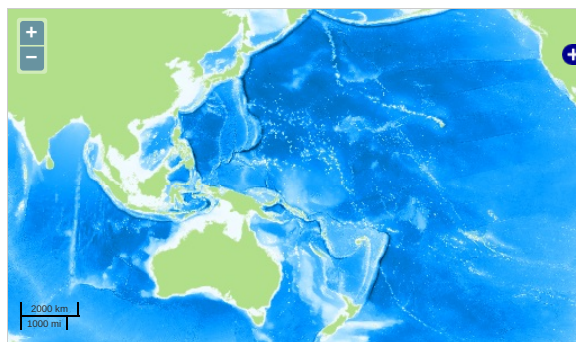
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### Observation Map

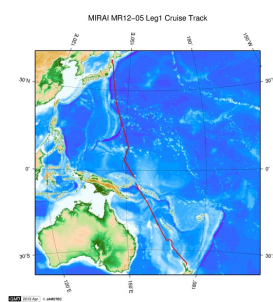


### Data List

File names

☐ 49NZ20121105\_hy1.csv

### Related Information



[Enlarge Image](#)

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