

## MIRAI MR07-07 Leg1 Bottle Sampling Water Chemical Analysis

Last Modified: 2017-07-28

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

Cruise ID: [MR07-07 Leg1](#)

Bottle Sampling Water Chemical Analysis: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items: Temperature, Salinity, Dissolved oxygen, Potential temperature, Density

Science Keywords:

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

Cruise Report

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/MR07-07\\_leg1\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR07-07_leg1_all.pdf)

### For Using Data

#### Principal Investigator

CTDTMP : Yuji Kashino (JAMSTEC)  
CTDSAL : Yuji Kashino (JAMSTEC)  
SALNTY : Yuji Kashino (JAMSTEC)  
CTDOXY : Yuji Kashino (JAMSTEC)  
DWNPRS : Yuji Kashino (JAMSTEC)  
DWNNOXY : Yuji Kashino (JAMSTEC)

JAMSTEC / BPPT joint cruise in the Indonesian waters.

#### Use Constraints

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

#### Data Citation

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

### Instrument

Instrument:

Salinity measurement system



### Overview

[Please see here for the cruisereport.](#)

### Information on CTD data

#### (1) Temperature sensor

Model : SBE3, Sea-Bird Electronics, Inc.  
Measurement range : -5.0 to +35degC  
Accuracy : 0.001degC  
Resolution : 0.0002degC

#### (2) Salinity sensor

Model : SBE4, Sea-Bird Electronics, Inc.  
Measurement range : 0.0 to 7S/m  
Accuracy : 0.0003S/m  
Resolution : 0.00004S/m

#### (3) Pressure sensor

Model : SBE9plus, Sea-Bird Electronics, Inc.  
Measurement range : up to 10500m  
Accuracy : 0.015%F.S.  
Resolution : 0.001%F.S.

#### (4) DO sensor

Model : SBE43, Sea-Bird Electronics, Inc.  
Measurement range : 0-15ml/l  
Accuracy : 0.1ml/l  
Resolution : 0.01ml/l

### Information on Chemical and Biological data

#### 1. Salinity

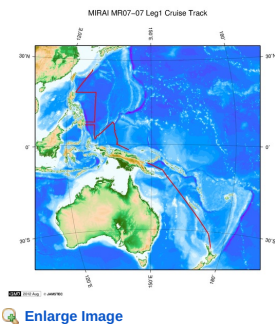
(1) Instruments : Autosal salinometer model 8400B(Guildline Instruments Ltd.)

(2) Methods : -

(3) Precision : 0.0002 PSU

(4) Reference Material/Calibration : IAPSO Standard Sea Water batch P148(Ocean Scientific International Ltd.)

### Related Information



#### MR07-07 Leg1

Ship Name: MIRAI

Period: 2007-12-27 - 2008-01-25

Chief Scientist: Yuji Kashino (JAMSTEC)

Project Name: [Tropical Ocean Climate Study (TOCS)]

#### Update History

2017-07-28	An observation data was registerd.
2016-04-07	An observation data was registerd.
2015-05-29	An observation data was registerd.
2013-08-29	An observation data was registerd.
2012-10-30	An observation data was registerd.
2012-10-26	An observation data was registerd.

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Cruise ID:

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海洋研究開発機構  
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Exchange Format

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](#)

Format Information

Column No.	Column Heading Mnemonic	Units Mnemonic	Reporting Precision FORTRAN Format	Comments
1	EXPCODE		A14	Expedition code
2	SECT		A6	For WOCE data the WHP section identifier
3	STNNBR		A6	Station number
4	CASTNO		I3	Cast number
5	SAMPNO		A7	Sample number
6	BTLNBR		A7	Bottle identification number
7	BTLNBR_FLAG_W		I1	Bottle quality flag
8	DATE		I8	Cast date(UTC)
9	TIME	UTC	I4	Cast time (UTC)
10	LATITUDE	DEG	F8.3	LATITUDE
11	LONGITUDE	DEG	F9.3	LONGITUDE
12	DEPTH	M	I5	Reported depth to bottom.
13	CTDDPT	M	F9.1	Depth
14	CTDDPT_FLAG_W		I1	Quality flag for CTD data
15	CTDPRS	DBAR	F9.1	Pressure
16	CTDPRS_FLAG_W		I1	Quality flag for CTD data
17	CTDTMP	ITS-90	F9.4	Temperature
18	CTDTMP_FLAG_W		I1	Quality flag for CTD data
19	CTDSAL	PSS-78	F9.4	CTD Salinity sensor
20	CTDSAL_FLAG_W		I1	Quality flag for CTD data
21	SALNTY	PSS-78	F9.4	Salinity
22	SALNTY_FLAG_W		I1	Quality flags for water samples
23	CTDOXY	UMOL/KG	F9.2	CTD Oxygen sensor
24	CTDOXY_FLAG_W		I1	Quality flag for CTD data
25	DWNPRS	DBAR	F9.1	Down-cast pressure at the same density of the up-cast CTD data
26	DWNPRS_FLAG_W		I1	Quality flag for CTD data
27	DWNOXY	UMOL/KG	F9.2	Down-cast CTD oxygen at pressure of DWNPRS
28	DWNOXY_FLAG_W		I1	Quality flag for CTD data
29	THETA	DEG C	F9.4	Potential temperature
30	SIG0	KG/CUM	F9.4	Density

ODV Format

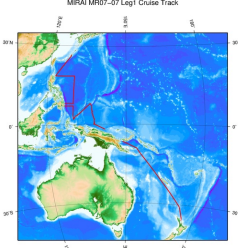
Please see the following link for details of ODV Format and ODV Software.

[Ocean Data View \(ODV\)](#)

Format Information

Column No.	Column Heading	Comments
1	Cruise	Cruise Label
2	Station	Station number_Cast number
3	Type	Station type
4	mon/day/yr	Cast date(UTC)
5	hh:mm	Cast time (UTC)
6	Latitude [degrees_north]	LATITUDE
7	Longitude [degrees_east]	LONGITUDE
8	Bot. Depth [m]	Reported depth to bottom.
9	CTDDPT[M]	Depth
10	QF	Quality flag for CTD data
11	CTDPRS[DBAR]	Pressure
12	QF	Quality flag for CTD data
13	CTDTMP[ITS-90]	Temperature
14	QF	Quality flag for CTD data
15	CTDSAL[PSS-78]	CTD Salinity sensor
16	QF	Quality flag for CTD data
17	SALNTY[PSS-78]	Salinity
18	QF	Quality flags for water samples
19	CTDOXY[UMOL/KG]	CTD Oxygen sensor
20	QF	Quality flag for CTD data
21	DWNPRS[DBAR]	Down-cast pressure at the same density of the up-cast CTD data
22	QF	Quality flag for CTD data
23	DWNOXY[UMOL/KG]	Down-cast CTD oxygen at pressure of DWNPRS
24	QF	Quality flag for CTD data
25	THETA[DEG C]	Potential temperature
26	QF	Quality flag for CTD data
27	SIG0[KG/CUM]	Density
28	QF	Quality flag for CTD data
29	SAMPNO	Sample number
30	QF	Bottle quality flag

Related Information



MIRAI MR07-07 Leg1 Cruise Track


**MR07-07 Leg1**

Ship Name: MIRAI

Period: 2007-12-27 - 2008-01-25

Chief Scientist: Yuji Kashino (JAMSTEC)

Project Name: [Tropical Ocean Climate Study (TOCS)]

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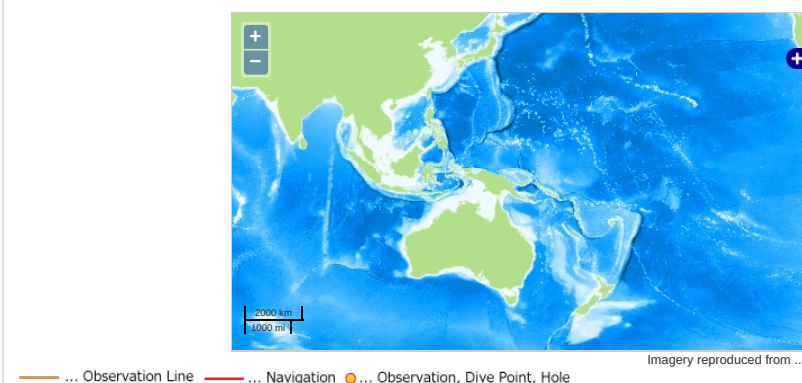
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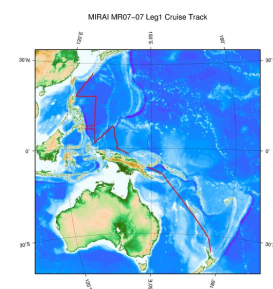
### Observation Map



### Data List

☐ File names  
☐ MR070701\_ex\_bot.csv  
☐ MR070701\_odv\_bot.txt

### Related Information



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Period: 2007-12-27 - 2008-01-25  
Chief Scientist: Yuji Kashino (JAMSTEC)  
Project Name: [Tropical Ocean Climate Study (TOCS)]

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