

MIRAI MR10-02 Bottle Sampling Water Chemical Analysis

Last Modified: 2017-07-28

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Cruise ID: [MR10-02](#)

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/MR10-02_all.pdf

For Using Data

Principal Investigator

CTDTMP : Kentaro Ando (JAMSTEC)

CTDSAL : Kentaro Ando (JAMSTEC)

SALNTY : Kentaro Ando (JAMSTEC)

CTDOXY : Kentaro Ando (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



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

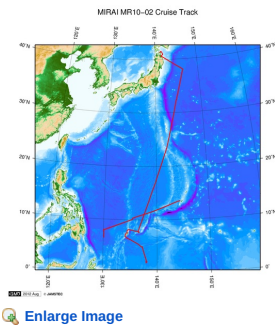
(1) Instruments : Autosal salinometer model 8400B(Guildline Instruments Ltd.)

(2) Methods : -

(3) Precision : 0.0005 PSU

(4) Reference Material/Calibration : IAPSO Standard Sea Water batch P151(Ocean Scientific International Ltd.)

Related Information



MR10-02

Ship Name: MIRAI

Period: 2010-04-06 - 2010-05-02

Chief Scientist: Kentaro Ando (JAMSTEC)

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

Proposal ▶ Tropical Ocean Climate Study/Operation of TRITON Buoy

Title:

Update History

2017-07-28	An observation data was registered.
2016-04-07	An observation data was registered.
2015-05-29	An observation data was registered.
2013-08-29	An observation data was registered.
2012-09-28	An observation data was registered.

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HAKUHO MARU

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SHINKAI 6500

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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

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国立研究開発法人
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JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

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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	FORTTRAN 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	F8.4		LATITUDE
11	LONGITUDE	DEG	F9.4		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	THETA	DEG C	F9.4		Potential temperature
26	SIG0	KG/CUM	F9.4		Density

ODV Format

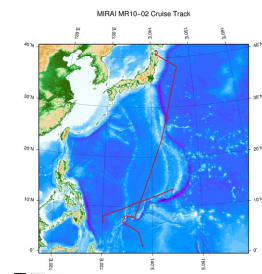
Please see the following link for details of ODV Format and ODV Software.

[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	THETA[DEG C]	Potential temperature
22	QF	Quality flag for CTD data
23	SIG0[KG/CUM]	Density
24	QF	Quality flag for CTD data
25	SAMPNO	Sample number
26	QF	Bottle quality flag

Related Information



[Enlarge Image](#)

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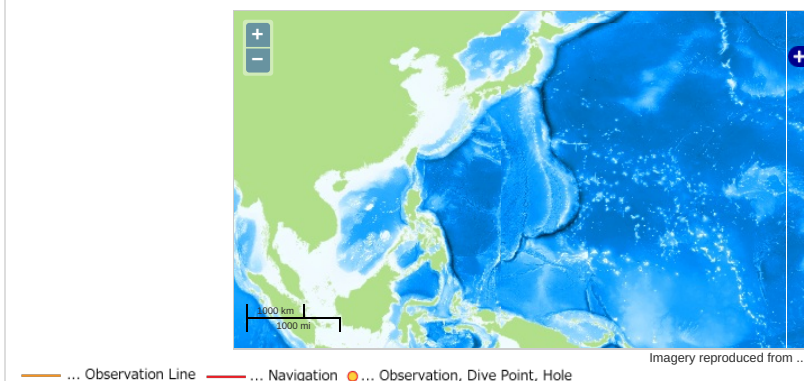
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Observation Map



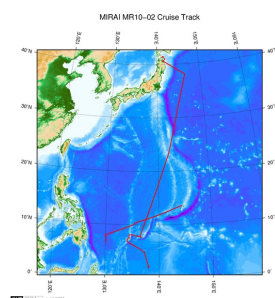
Data List

☐ File names

☐ MR100200_ex_bot.csv

☐ MR100200_odv_bot.txt

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