

MIRAI MR13-03 Leg1 Bottle Sampling Water Chemical Analysis

Last Modified: 2017-07-28

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

Cruise ID: [MR13-03 Leg1](#)

Bottle Sampling Water Chemical Analysis: Processed (DMO)-QCed

Data Policy: [JAMSTEC](#)

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

Science Keywords:

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

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR13-03_leg1-2_all.pdf

For Using Data

Principal Investigator

CTDTMP: Masaki Katsumata (JAMSTEC)
CTDSAL: Masaki Katsumata (JAMSTEC)
SALNTY: Masaki Katsumata (JAMSTEC)
CTDOXY: Masaki Katsumata (JAMSTEC)
FLUOR: Masaki Katsumata (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



Information on CTD data

(1) Pressure sensor

Model : SBE9plus, Sea-Bird Electronics, Inc.
Measurement range : 0 to 10500 m
Accuracy : $\pm 0.015\%$ of full scale range
Resolution : 0.001% of full scale

(2) Temperature sensor

Model : SBE3, Sea-Bird Electronics, Inc.
Measurement range : -5 to +35 °C
Accuracy : ± 0.001 °C
Resolution : 0.0002 °C

(3) Salinity sensor

Model : SBE4, Sea-Bird Electronics, Inc.
Measurement range : 0 to 7 S/m
Accuracy : ± 0.0003 S/m
Resolution : 0.00004 S/m

(4) DO sensor

Model : SBE43, Sea-Bird Electronics, Inc.
Measurement range : 120% of surface saturation
Accuracy : $\pm 2\%$ of saturation

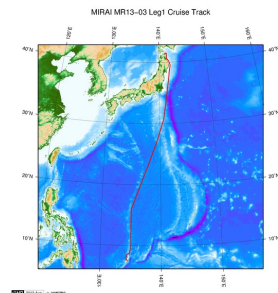
(5) Fluorometer

Model : Seapoint Sensors, Inc.
Measurement range : 0 - 5 $\mu\text{g/l}$
Resolution : 0.02 $\mu\text{g/l}$

Information on Chemical and Biological data

1. Salinity

- (1) Instruments: Autosal salinometer model 8400B (Guildline Instruments Ltd.)
- (2) Methods: -
- (3) Precision: The standard deviation of absolute difference were 0.0001
- (4) Reference Material/Calibration: IAPSO Standard Sea Water batch P154



[Enlarge Image](#)

MR13-03 Leg1

Ship Name: MIRAI

Period: 2013-05-31 - 2013-06-10

Chief Scientist: Masaki Katsumata (JAMSTEC)

Project Name: [MJO Research]

Proposal ▶ Observational Study on the Intreseasonal Variability over the western Pacific
Title:

Update History

2017-07-28	An observation data was registerd.
2015-07-29	An observation data was registerd.
2015-07-06	An observation data was registerd.

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Go to a Cruise Information

Cruise ID:

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Dive ID:

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国立研究開発法人
海洋研究開発機構
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 FORTRAN Format	Comments
1	EXPCODE		A14	ExpoCode
2	SECT_ID		A6	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	Flag of the data on the left colum
8	DATE		I8	Cast date
9	TIME	UTC	A4	Cast time
10	LATITUDE	DEG	F8.4	-
11	LONGITUDE	DEG	F9.4	-
12	DEPTH	METERS	I5	Bottom depth
13	CTDDPT	METERS	F9.1	Depth
14	CTDDPT_FLAG_W		I1	Flag of the data on the left colum
15	CTDPRS	DBAR	F9.1	Pressure
16	CTDPRS_FLAG_W		I1	Flag of the data on the left colum
17	CTDTMP	ITS-90	F9.4	Temperature
18	CTDTMP_FLAG_W		I1	Flag of the data on the left colum
19	CTDTMP_1	ITS-90	F9.4	Temperature (secondary sensor)
20	CTDTMP_1_FLAG_W		I1	Flag of the data on the left colum
21	CTDSAL	PSS-78	F9.4	Salinity
22	CTDSAL_FLAG_W		I1	Flag of the data on the left colum
23	CTDSAL_1	PSS-78	F9.4	Salinity (secondary sensor)
24	CTDSAL_1_FLAG_W		I1	Flag of the data on the left colum
25	SALNTY	PSS-78	F9.4	Bottle Salinity
26	SALNTY_FLAG_W		I1	Flag of the data on the left colum
27	SALNTY_1	PSS-78	F9.4	Bottle Salinity (duplicate)
28	SALNTY_1_FLAG_W		I1	Flag of the data on the left colum
29	CTDOXY	UMOL/KG	F9.2	Oxygen_CTD
30	CTDOXY_FLAG_W		I1	Flag of the data on the left colum
31	CTDOXY_1	UMOL/KG	F9.2	Oxygen_CTD (secondary sensor)
32	CTDOXY_1_FLAG_W		I1	Flag of the data on the left colum
33	FLUOR	MG/CUM	F9.3	Fluorescence
34	FLUOR_FLAG_W		I1	Flag of the data on the left colum
35	THETA	DEG C	F9.4	Potential temperature
36	THETA_1	DEG C	F9.4	Potential temperature (secondary sensor)
37	SIG0	KG/CUM	F9.4	Density
38	SIG0_1	KG/CUM	F9.4	Density (secondary sensor)

ODV Format

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

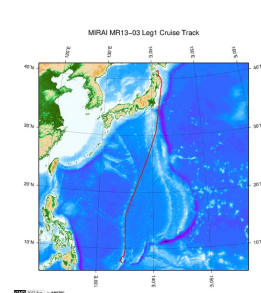
[Ocean Data View \(ODV\)](#)

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
5	hh:mm	Cast time
6	Latitude [degrees_north]	-
7	Longitude [degrees_east]	-
8	Bot. Depth [METERS]	Bottom depth
9	CTDDPT[METERS]	Depth
10	QF	Flag of the data on the left colum
11	CTDPRS[DBAR]	Pressure
12	QF	Flag of the data on the left colum
13	CTDTMP[ITS-90]	Temperature
14	QF	Flag of the data on the left colum
15	CTDTMP_1[ITS-90]	Temperature (secondary sensor)
16	QF	Flag of the data on the left colum
17	CTDSAL[PSS-78]	Salinity
18	QF	Flag of the data on the left colum
19	CTDSAL_1[PSS-78]	Salinity (secondary sensor)
20	QF	Flag of the data on the left colum
21	SALNTY[PSS-78]	Bottle Salinity

Column No.	Column Heading	Comments
22	QF	Flag of the data on the left colum
23	SALNTY_1[PSS-78]	Bottle Salinity (duplicate)
24	QF	Flag of the data on the left colum
25	CTDOXY[UMOL/KG]	Oxygen_CTD
26	QF	Flag of the data on the left colum
27	CTDOXY_1[UMOL/KG]	Oxygen_CTD (secondary sensor)
28	QF	Flag of the data on the left colum
29	FLUOR[MG/CUM]	Fluorescence
30	QF	Flag of the data on the left colum
31	THETA[DEG C]	Potential temperature
32	QF	Flag of the data on the left colum
33	THETA_1[DEG C]	Potential temperature (secondary sensor)
34	QF	Flag of the data on the left colum
35	SIG0[KG/CUM]	Density
36	QF	Flag of the data on the left colum
37	SIG0_1[KG/CUM]	Density (secondary sensor)
38	QF	Flag of the data on the left colum
39	SAMPNO	Sample Number
40	QF	Flag of the data on the left colum

Related Information



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Ship Name: MIRAI
Period: 2013-05-31 - 2013-06-10
Chief Scientist: Masaki Katsumata (JAMSTEC)
Project Name: [MJO Research]
Proposal ▶ Observational Study on the Intreseasonal Variability over the western Pacific
Title:

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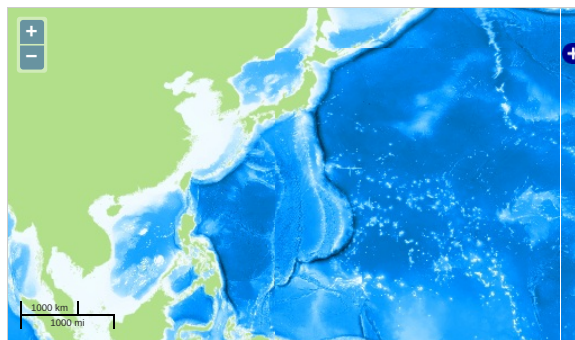
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Observation Map



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

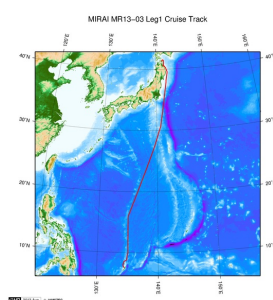
Data List

☐ File names

☐ MR130301_ex_bot.csv

☐ MR130301_odv_bot.txt

Related Information



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