

## MIRAI MR12-05 Leg2 Underway Thermosalinograph

Last Modified: 2017-04-11

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

Cruise ID: [MR12-05 Leg2](#)

Underway Thermosalinograph: Processed (PI)

Data Policy: [JAMSTEC](#)

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

Science Keywords:

OCEANS > OCEAN CHEMISTRY > OXYGEN  
OCEANS > OCEAN CHEMISTRY > SALINITY  
OCEANS > OCEAN CHEMISTRY > CHLOROPHYLL  
OCEANS > SALINITY/DENSITY > SALINITY  
OCEANS > OCEAN OPTICS > PHOTOSYNTHETICALLY ACTIVE RADIATION  
OCEANS > OCEAN TEMPERATURE > SEA SURFACE TEMPERATURE  
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

Hiroshi Uchida (JAMSTEC)

Use Constraints

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

Data Citation

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

### Instrument

Instrument:

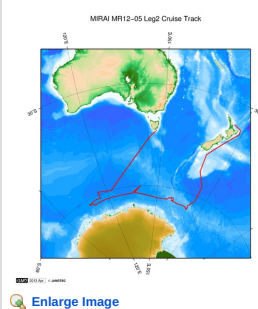
Continuous sea surface water monitoring system (MR10-04 Leg1 - MR14-02 )



### Overview

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

### Related Information



#### MR12-05 Leg2

Ship Name: MIRAI

Period: 2012-11-27 - 2013-01-03

Chief Scientist: Katsuro Katsumata (JAMSTEC)

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

Title:

### Update History

2017-04-11	An observation data was registered.
2015-05-31	An observation data was registered.
2014-04-09	An observation data was registered.

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KAIYO  
YOKOSUKA  
MIRAI  
KAIREI  
CHIKYU  
KAIMEI  
SHINSEI MARU  
HAKUHO MARU

Information of the Submersibles  
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SHINKAI 2000  
SHINKAI 6500  
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6K Sonar DEEP TOW  
KM-ROV  
POWER GRAB  
SAMPLER (SHELL)  
POWER GRAB  
SAMPLER (CLOW)  
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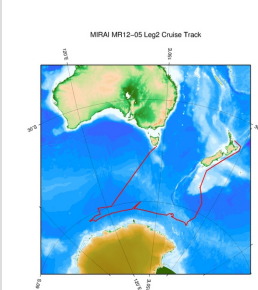
### DATA Format

Column No.	Column Heading Mnemonic	Units Mnemonic	Reporting Precision FORTRAN Format	Comments
1	EXPCODE		A12	Expedition code
2	DATE		I8	Date (YYYYMMDD)
3	TIME	UTC	I4	Time (HHMM)
4	LATITUDE	DEG	F10.5	Latitude
5	LONGITUDE	DEG	F10.5	Longitude
6	SPEED	KNOT	F6.1	Ship speed
7	FLOW	L/MIN	F6.1	Flow rate
8	INTAKE-TEMPERATURE	ITS-90	F9.4	Temperature of bottom of the ship (SBE 38)
9	INTAKE-TEMPERATURE_FLAG		I1	see flag definition below
10	TSG-TEMPERATURE	ITS-90	F9.4	Thermosalinograph temperature (SBE 45)
11	TSG-TEMPERATURE_FLAG		I1	see flag definition below
12	TSG-SALINITY	PSS-78	F9.4	Thermosalinograph salinity (SBE 45)
13	TSG-SALINITY_FLAG		I1	see flag definition below
14	SALINITY	PSS-78	F9.4	Sampled salinity
15	SALINITY_FLAG		I1	see flag definition below
16	TSG-OXYGEN	UMOL/KG	F9.2	Oxygen sensor RINKO-II
17	TSG-OXYGEN_FLAG		I1	see flag definition below
18	OXYGEN	UMOL/KG	F9.2	Sampled oxygen
19	OXYGEN_FLAG		I1	see flag definition below
20	FLUORESCENCE	RFU	F9.2	Fluorometer C3 (primary)
21	FLUORESCENCE_FLAG		I1	see flag definition below
22	TSG-CHLOROPHYLL-A	MG/CUM	F9.3	Chlorophyll-a estimated from the fluorometer
23	TSG-CHLOROPHYLL-A_FLAG		I1	see flag definition below
24	CHLOROPHYLL-A	MG/CUM	F9.2	Sampled chlorophyll-a
25	CHLOROPHYLL-A_FLAG		I1	see flag definition below
26	PAR	UE/SQM/S	F9.3	Photosynthetically Active Radiation measured at the navigation deck (18 m)
27	PAR_FLAG		I1	see flag definition below

### Flag definition

- 1: not corrected
- 2: corrected for the sensor data or acceptable for the sampled data
- 3: questionable measurement
- 4: bad measurement
- 6: interpolated
- 8: low-pass filtered
- 9: missing data (missing value is -999)

### Related Information



[Enlarge Image](#)

#### MR12-05 Leg2

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BMS

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**JAMSTEC**

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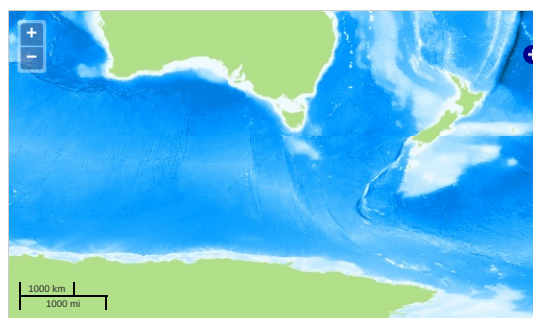
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### Observation Map



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

Imagery reproduced from ...

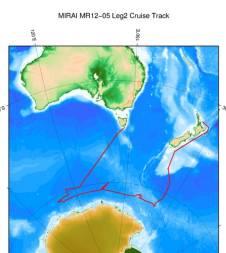
### Data List

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File names

☐ 49NZ201211128\_tsg.csv

### Related Information



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