

MIRAI MR99-K06 Radiosonde

Last Modified: 2016-04-07

ReadMe Observation Data Data Format

Cruise ID: **MR99-K06**

Radiosonde: Processed (DMO)-Corrected

Data Policy: **JAMSTEC**

Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

Science Keywords:

ATMOSPHERE > ATMOSPHERIC WATER VAPOR > DEW POINT TEMPERATURE
ATMOSPHERE > ATMOSPHERIC WATER VAPOR > HUMIDITY
ATMOSPHERE > ATMOSPHERIC TEMPERATURE > TEMPERATURE PROFILES
ATMOSPHERE > ATMOSPHERIC WINDS > UPPER LEVEL WINDS
ATMOSPHERE > ATMOSPHERIC WINDS > WIND PROFILES

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR99-K06_all.pdf

For Using Data

Principal Investigator

Data Management Office

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

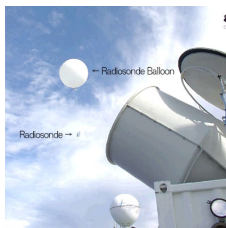
Instrument:

Radiosonde (MR11-03 - MR15-E01
Leg3)



Instrument:

Radiosonde (MR04-03 Leg1 - MR11-02)



Instrument:

Radiosonde (- MR04-02)



Overview

Correction method

· Correction of ship body warming

Temperature and dew point temperature data near the surface (4.5 hPa from ship deck) were corrected by linear extrapolation using upper layer data, since these data were affected by ship body warming (cooling) at daytime (nighttime). Details for data processing and correction can be found in [Yoneyama et al. \(2002\)](#).

Note

Information about each radiosonde data are listed in the following table. It contains corrected sounding data, launch time, position, sensor information and calibration results for atmospheric pressure, air temperature and relative humidity. Calibration is conducted for every sensor prior to launch. Therefore, even raw data take in this calibration result. If the calibration result shows the positive value, it means that the calibrator showed the higher value than that of the sonde sensor. Filename of corrected data shows a sounding time (YYMMDDHH.***, where YY=year, MM=month, DD=day, and HH=hour) in UTC.

Data file	Launch time (UTC)		Launch station		Sensor information		Calibration result			Note
	Date	Time	Latitude	Longitude	Serial No.	Age	Atmospheric pressure [hPa]	Air temperature [deg-C]	Relative humidity [%]	
99102100.dat	1999/10/20	23:29	11.60N	140.72E	914101115	199	0.6	-0.9	-4.0	
99102200.dat	1999/10/21	23:29	7.99N	136.94E	914101114	200	0.6	0.2	-6.0	
99102212.dat	1999/10/22	12:09	7.28N	136.97E	914101113	201	0.5	0.1	-6.0	
99102218.dat	1999/10/22	17:30	6.18N	137.00E	914101106	201	0.4	0.1	-5.0	
99102300.dat	1999/10/22	23:22	4.97N	137.10E	914101112	201	0.2	-0.7	-6.0	
99102306.dat	1999/10/23	05:29	4.83N	137.30E	914101111	202	0.2	-0.7	-5.0	
99102312.dat	1999/10/23	11:19	4.03N	137.32E	914101110	202	0.3	-0.7	-6.0	
99102318.dat	1999/10/23	18:04	2.99N	137.58E	914101107	202	0.2	-0.3	-7.0	
99102400.dat	1999/10/23	23:30	2.83N	137.58E	822706605	511	0.3	-0.5	3.0	
99102500.dat	1999/10/24	23:30	2.00N	138.02E	823206101	503	-0.1	-1.1	4.0	
99102600.dat	1999/10/25	23:30	1.00N	138.00E	913207609	210	0.4	0.7	-4.0	
99102700.dat	1999/10/26	23:32	0.06N	138.00E	823206215	505	0.1	1.0	6.0	
99102703.dat	1999/10/27	02:30	0.07N	138.05E	823206100	506	-0.5	-0.4	3.0	
99102706.dat	1999/10/27	05:29	0.08N	138.02E	822706603	515	-0.2	-0.4	7.0	
99102709.dat	1999/10/27	08:30	0.08N	138.01E	822704100	515	0.2	-0.3	6.0	
99102712.dat	1999/10/27	11:30	0.03N	138.53E	822704314	515	0.4	-0.5	6.0	
99102715.dat	1999/10/27	14:30	0.00N	139.25E	822704313	515	1.1	-0.5	5.0	
99102718.dat	1999/10/27	17:21	0.00N	139.88E	822704312	515	0.9	-0.5	7.0	
99102721.dat	1999/10/27	20:29	0.00N	140.50E	822704311	515	0.7	-0.2	4.0	
99102800.dat	1999/10/27	23:30	0.00N	141.04E	837402715	413	-0.4	-0.5	6.0	
99102806.dat	1999/10/28	05:30	0.00N	142.27E	837402714	414	0.1	-0.5	6.0	
99102900.dat	1999/10/28	23:30	0.00N	145.24E	837402713	414	0.0	0.6	3.0	

99102900.dat	1999/10/20	23:29	0.00N	146.24E	837402713	414	0.0	-0.0	3.0	
99103000.dat	1999/10/29	23:30	0.06N	146.84E	837402710	415	0.0	-0.3	4.0	
99103100.dat	1999/10/30	23:29	2.10N	147.00E	837402708	416	0.0	0.0	4.0	
99103106.dat	1999/10/31	05:38	3.77N	147.08E	837402706	417	0.0	-0.7	5.0	
99103112.dat	1999/10/31	11:32	5.01N	147.16E	837307804	411	0.0	-0.5	5.0	
99110100.dat	1999/10/31	23:35	4.85N	146.94E	837307802	411	0.2	-0.1	3.0	
99110112.dat	1999/11/01	11:30	4.87N	146.91E	837308112	412	0.2	-0.7	4.0	
99110200.dat	1999/11/01	23:32	4.86N	146.94E	837308000	412	-0.1	-0.3	3.0	
99110212.dat	1999/11/02	11:29	5.00N	146.92E	837308002	413	0.5	-0.7	5.0	
99110300.dat	1999/11/02	23:30	5.07N	147.00E	837308003	413	0.5	-0.5	5.0	
99110312.dat	1999/11/03	11:30	5.01N	147.70E	837308114	414	-0.2	-0.9	6.0	
99110600.dat	1999/11/05	23:35	5.00S	155.98E	837308004	416	0.3	-0.8	5.0	
99110800.dat	1999/11/07	23:30	0.00N	155.95E	837308006	418	0.8	-0.7	4.0	
99110900.dat	1999/11/08	23:30	0.01N	156.03E	837308007	419	0.0	-0.5	4.0	
99111000.dat	1999/11/09	23:30	2.07N	155.97E	837308009	420	-0.8	-0.8	4.0	
99111300.dat	1999/11/12	23:29	4.98N	156.06E	837308008	423	-0.6	-0.2	3.0	
99111400.dat	1999/11/13	23:30	8.09N	156.02E	837307801	424	0.1	-0.6	3.0	
99111500.dat	1999/11/14	23:30	11.24N	153.01E	837308015	425	0.1	-0.7	4.0	
99111512.dat	1999/11/15	11:29	13.59N	150.83E	837307800	426	0.0	-0.4	3.0	
99111600.dat	1999/11/15	23:29	14.55N	150.08E	837308010	426	-0.3	0.3	2.0	
99111612.dat	1999/11/16	11:32	14.50N	150.01E	837308115	427	0.6	-0.2	4.0	
99111700.dat	1999/11/16	23:30	15.16N	149.96E	837308014	427	0.0	-0.4	4.0	
99111712.dat	1999/11/17	11:29	15.46N	149.85E	837308013	428	0.5	0.0	3.0	

Reference

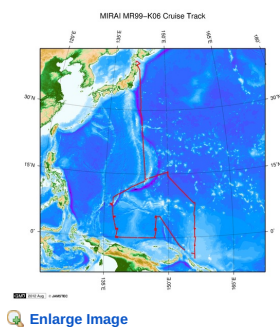
K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002:Radiosonde observation from the ship in the tropical region. [\[PDF:400kbyte\]](#)
JAMSTECR, Vol.45, 31-39.

Others

- ・ Main processor: DigiCORA. MW11(before 2004 Jul.) [VAISALA, Finland]
- ・ Radiosonde Sensor: RS80 [VAISALA, Finland]
- ・ Launcher Location: 22m (from base line)

Note

Related Information



MR99-K06

Ship Name: MIRAI
Period: 1999-10-13 - 1999-11-18
Chief Scientist: Kentaro Ando (JAMSTEC)
Project Name: [Tropical Ocean Climate Study (TOCS)]

Update History

2016-04-07	An observation data was registered.
2014-07-11	An observation data was registered.
2014-06-13	An observation data was registered.
2013-01-25	An observation data was registered.

JAMSTEC

[Site Policy](#)
[Privacy Policy](#)
[Application for Data and Samples](#)
[Data Policy](#)
[What's New](#)
[Update History](#)
[Feeds](#)

Lists

[Publication List](#)
[Amount of Public Info.](#)

Data

[Map Search](#)
[Data Tree](#)
[Detailed Search](#)

Information of the Ships

[NATSUSHIMA](#)
[KAIYO](#)
[YOKOSUKA](#)
[MIRAI](#)
[KAIREI](#)
[CHIKYU](#)
[KAIMEI](#)
[SHINSEI MARU](#)
[HAKUHO MARU](#)

Information of the Submersibles

[KAIKO](#)
[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 to a Dive Information

Dive ID:

Copyright 2011 Japan Agency for Marine-Earth Science and Technology

JAMSTEC

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

MIRAI MR99-K06 Radiosonde

Last Modified: 2016-04-07

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

Cruise ID: [MR99-K06](#)

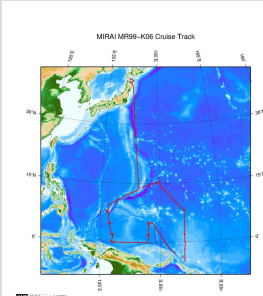
Radiosonde: Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

Radiosonde Corrected

No.	Column	Description	Format	Unit	Remarks
1	3 - 8	Atmospheric pressure	f6.1	hPa	
2	10 - 15	Air temperature	f6.1	deg-C	'9999.0' is missing value.
3	17 - 22	Dew point temperature	f6.1	deg-C	'9999.0' is missing value.
4	24 - 27	Relative humidity	i4	%	'9999' is missing value.
5	29 - 34	Wind speed (zonal)	f6.1	m/sec	'9999.0' is missing value.
6	36 - 41	Wind speed (meridional)	f6.1	m/sec	'9999.0' is missing value.
7	44 - 48	Height (from sea level)	i5	m	'99999' is missing value.
8	49 - 50	Terminator	a2		CR+LF

Related Information



[Enlarge Image](#)

MR99-K06

Ship Name: MIRAI

Period: 1999-10-13 - 1999-11-18

Chief Scientist: Kentaro Ando (JAMSTEC)

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

Update History

2016-04-07	An observation data was registered.
2014-07-11	An observation data was registered.
2014-06-13	An observation data was registered.
2013-01-25	An observation data was registered.

JAMSTEC

[Site Policy](#)
[Privacy Policy](#)
[Application for Data and Samples](#)
[Data Policy](#)

What's New

[Update History](#)
[Feeds](#)

Lists

[Publication List](#)
[Amount of Public Info.](#)

Data

[Map Search](#)
[Data Tree](#)
[Detailed Search](#)

Information of the Ships

[NATSUSHIMA](#)
[KAIYO](#)
[YOKOSUKA](#)
[MIRAI](#)
[KAIREI](#)
[CHIKYU](#)
[KAIMEI](#)
[SHINSEI MARU](#)
[HAKUHO MARU](#)

Information of the Submersibles

[KAIKO](#)
[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 to a Dive Information

Dive ID:

MIRAI MR99-K06 Radiosonde

Last Modified: 2016-04-07

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

Cruise ID: [MR99-K06](#)

Radiosonde: Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

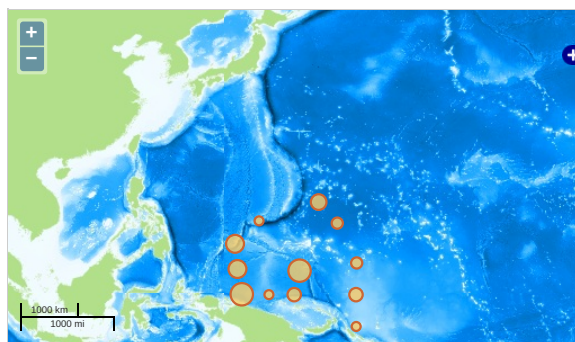
Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

Science Keywords:

ATMOSPHERE > ATMOSPHERIC WATER VAPOR > DEW POINT TEMPERATURE
ATMOSPHERE > ATMOSPHERIC WATER VAPOR > HUMIDITY
ATMOSPHERE > ATMOSPHERIC TEMPERATURE > TEMPERATURE PROFILES
ATMOSPHERE > ATMOSPHERIC WINDS > UPPER LEVEL WINDS
ATMOSPHERE > ATMOSPHERIC WINDS > WIND PROFILES

Observation Map

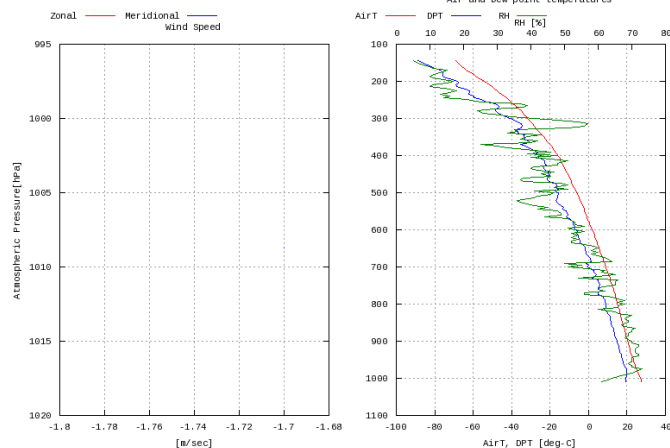
1. Clicking the icon displays a balloon with observation information.
2. Then click the observation name, figures will be displayed.



Figures

99102100

MR99-K06: 99102100
Radiosonde



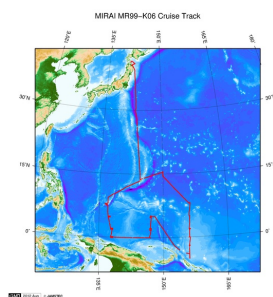
Data List

☐ File names

- ☐ 99102100.dat
- ☐ 99102200.dat
- ☐ 99102212.dat
- ☐ 99102218.dat
- ☐ 99102300.dat
- ☐ 99102306.dat
- ☐ 99102312.dat
- ☐ 99102318.dat
- ☐ 99102400.dat
- ☐ 99102500.dat
- ☐ 99102600.dat
- ☐ 99102700.dat
- ☐ 99102703.dat
- ☐ 99102706.dat

<input type="checkbox"/>	59102709.dat
<input type="checkbox"/>	99102712.dat
<input type="checkbox"/>	99102715.dat
<input type="checkbox"/>	99102718.dat
<input type="checkbox"/>	99102721.dat
<input type="checkbox"/>	99102800.dat
<input type="checkbox"/>	99102806.dat
<input type="checkbox"/>	99102900.dat
<input type="checkbox"/>	99103000.dat
<input type="checkbox"/>	99103100.dat
<input type="checkbox"/>	99103106.dat
<input type="checkbox"/>	99103112.dat
<input type="checkbox"/>	99110100.dat
<input type="checkbox"/>	99110112.dat
<input type="checkbox"/>	99110200.dat
<input type="checkbox"/>	99110212.dat
<input type="checkbox"/>	99110300.dat
<input type="checkbox"/>	99110312.dat
<input type="checkbox"/>	99110600.dat
<input type="checkbox"/>	99110800.dat
<input type="checkbox"/>	99110900.dat
<input type="checkbox"/>	99111000.dat
<input type="checkbox"/>	99111300.dat
<input type="checkbox"/>	99111400.dat
<input type="checkbox"/>	99111500.dat
<input type="checkbox"/>	99111512.dat
<input type="checkbox"/>	99111600.dat
<input type="checkbox"/>	99111612.dat
<input type="checkbox"/>	99111700.dat
<input type="checkbox"/>	99111712.dat

Related Information



[Enlarge Image](#)

MR99-K06

Ship Name: MIRAI

Period: 1999-10-13 - 1999-11-18

Chief Scientist: Kentaro Ando (JAMSTEC)

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

Update History

2016-04-07	An observation data was registerd.
2014-07-11	An observation data was registerd.
2014-06-13	An observation data was registerd.
2013-01-25	An observation data was registerd.

JAMSTEC

[Site Policy](#)

[Privacy Policy](#)

[Application for Data and Samples](#)

[Data Policy](#)

[What's New](#)

[Update History](#)

[Feeds](#)

Lists

[Publication List](#)

[Amount of Public Info.](#)

Data

[Map Search](#)

[Data Tree](#)

[Detailed Search](#)

Information of the Ships

[NATSUSHIMA](#)

[KAIYO](#)

[YOKOSUKA](#)

[MIRAI](#)

[KAIREI](#)

[CHIKYU](#)

[KAIMEI](#)

[SHINSEI MARU](#)

[HAKUHO MARU](#)

Information of the Submersibles

[KAIKO](#)

[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 to a Dive Information

Dive ID:

