

MIRAI MR00-K02 Radiosonde

Last Modified: 2014-07-11

ReadMe Observation Data Data Format

Cruise ID: **MR00-K02**

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

For Using Data

Principal Investigator

Data Management Office

Use Constraints

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

Data Citation

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

Instrument

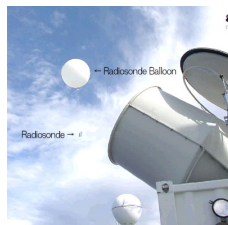
Instrument:

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 [%]	
00022306.dat	2000/02/23	05:30	7.01N	169.64E	915303312	316	0.3	0.2	4.0	
00022309.dat	2000/02/23	08:31	6.86N	168.88E	915303407	316	0.5	0.1	4.0	
00022312.dat	2000/02/23	11:34	6.56N	168.21E	915302704	316	0.6	0.3	4.0	
00022315.dat	2000/02/23	14:30	6.25N	167.57E	915302700	316	0.2	0.4	3.0	
00022318.dat	2000/02/23	17:36	5.90N	166.82E	915404412	315	0.0	0.3	-2.0	
00022321.dat	2000/02/23	20:30	5.62N	166.23E	915406607	315	0.2	0.2	1.0	
00022400.dat	2000/02/23	23:38	5.29N	165.57E	915303307	316	0.2	0.3	3.0	
00022403.dat	2000/02/24	02:35	5.03N	165.02E	915404515	316	0.8	0.2	1.0	
00022406.dat	2000/02/24	05:33	5.02N	165.01E	915408805	316	0.2	0.2	2.0	
00022409.dat	2000/02/24	08:35	5.31N	164.51E	915406608	316	0.3	0.1	4.0	
00022412.dat	2000/02/24	11:35	5.75N	163.92E	915303200	317	1.4	0.2	3.0	
00022603.dat	2000/02/26	02:48	4.26N	160.21E	915404507	318	0.5	0.2	-1.0	
00022606.dat	2000/02/26	05:55	4.22N	160.16E	940103214	146	0.8	0.1	2.0	
00022609.dat	2000/02/26	08:30	4.22N	160.17E	940103215	146	0.8	0.1	1.0	
00022612.dat	2000/02/26	11:30	3.68N	159.73E	940103006	146	1.1	0.3	-2.0	
00022615.dat	2000/02/26	14:30	3.41N	159.48E	940103115	146	0.0	0.0	1.0	
00022618.dat	2000/02/26	17:31	3.42N	159.40E	940103201	146	0.5	0.0	1.0	
00022621.dat	2000/02/26	20:35	3.38N	159.49E	940103205	146	0.2	0.3	-1.0	
00022700.dat	2000/02/26	23:50	3.29N	159.80E	940103106	146	0.1	-0.2	0.0	
00022703.dat	2000/02/27	02:31	3.15N	160.40E	940103210	147	0.1	0.0	0.0	
00022706.dat	2000/02/27	05:37	2.97N	161.08E	940103102	147	0.9	0.1	-1.0	
00022709.dat	2000/02/27	08:44	2.80N	161.75E	940103211	147	0.2	0.2	3.0	
00022712.dat	2000/02/27	11:30	2.63N	162.34E	940103103	147	0.3	0.6	2.0	
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00022718.dat	2000/02/27	17:33	2.33N	163.65E	940103003	147	0.4	0.1	2.0	
00022721.dat	2000/02/27	20:33	2.17N	164.27E	940103002	147	0.4	0.1	3.0	

00022800.dat	2000/02/27	23:33	2.00N	164.91E	940103107	147	0.5	-0.1	-2.0	
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00022806.dat	2000/02/28	05:35	2.00N	164.95E	001603909	59	0.1	0.2	1.0	
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Reference

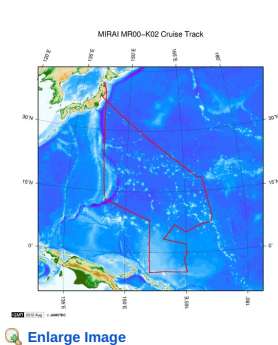
K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002:Radiosonde observation from the ship in the tropical region. [\[PDF:400kbyte\]](#)
JAMSTECR, Vol.45, 31-39.

Others

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

Note

Related Information



MR00-K02

Ship Name: MIRAI
Period: 2000-02-12 - 2000-03-25
Chief Scientist: Yoshifumi Kuroda (JAMSTEC)
Project Name: [Tropical Ocean Climate Study (TOCS)]

Update History

2014-07-11	An observation data was registered.
2014-06-13	An observation data was registered.
2012-12-25	An observation data was registered.

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KAIYO
YOKOSUKA
MIRAI
KAIREI
CHIKYU
KAIMEI
SHINSEI MARU
HAKUHO MARU

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

Cruise ID:

Go to a Dive Information

Dive ID:

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MIRAI MR00-K02 Radiosonde

Last Modified: 2014-07-11

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

Cruise ID: **MR00-K02**

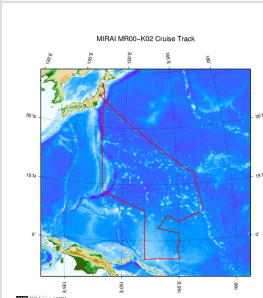
Radiosonde: Processed (DMO)-Corrected

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](#)

MR00-K02

Ship Name: MIRAI

Period: 2000-02-12 - 2000-03-25

Chief Scientist: Yoshitumi Kuroda (JAMSTEC)

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

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[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](#)
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[KM-ROV](#)
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Cruise ID:

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Dive ID:

MIRAI MR00-K02 Radiosonde

Last Modified: 2014-07-11

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Cruise ID: [MR00-K02](#)

Radiosonde: Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

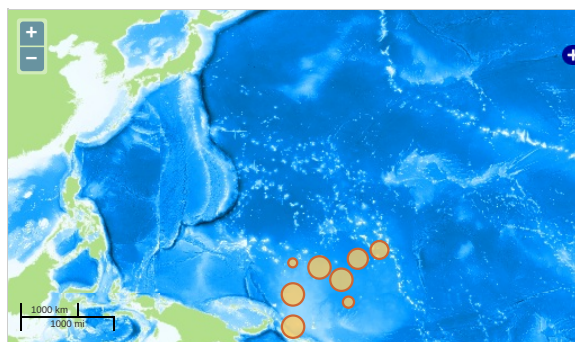
Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

Science Keywords:

ATMOSPHERE > ATMOSPHERIC WATER VAPOR > DEW POINT TEMPERATURE
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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.

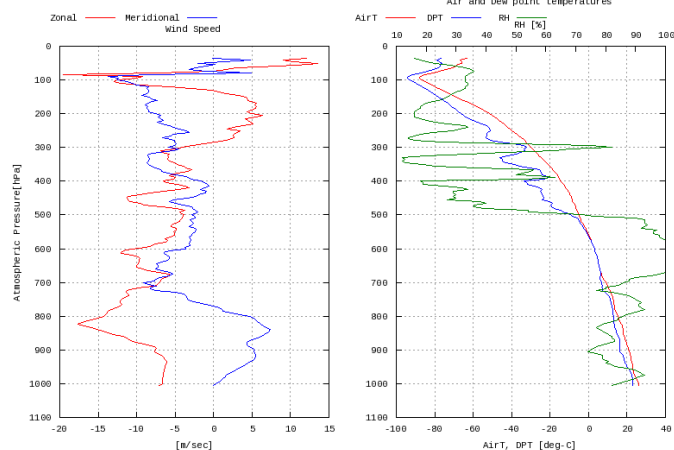


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Figures

00022306

MR00-K02: 00022306
Radiosonde



Data List

☐ File names

☐ 00022306.dat

☐ 00022309.dat

☐ 00022312.dat

☐ 00022315.dat

☐ 00022318.dat

☐ 00022321.dat

☐ 00022400.dat

☐ 00022403.dat

☐ 00022406.dat






☐ 00022409.dat

☐ 00022412.dat

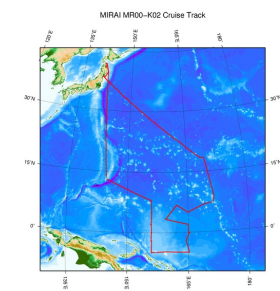
☐ 00022603.dat

☐ 00022606.dat

☐ 00022609.dat

	File names
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	00022618.dat
	00022621.dat
	00022700.dat
	00022703.dat
	00022706.dat
	00022709.dat
	00022712.dat
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	00031009.dat
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	00031015.dat
	00031018.dat
	00031021.dat
	00031100.dat
	00031115.dat

Related Information



MR00-K02

Ship Name: MIRAI

Period: 2000-02-12 - 2000-03-25

Chief Scientist: Yoshifumi Kuroda (JAMSTEC)

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

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6K Camera DEEP TOW

6K Sonar DEEP TOW

KM-ROV

POWER GRAB SAMPLER (SHELL)

POWER GRAB SAMPLER (CLOW)

BMS

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Cruise ID:

Go to a Dive Information

Dive ID:

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