

## MIRAI MR98-K02 Radiosonde

Last Modified: 2014-07-11

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Cruise ID: **MR98-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

Cruise Report

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/MR98-K02\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR98-K02_all.pdf)

### For Using Data

Principal Investigator

Data Management Office

Use Constraints

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

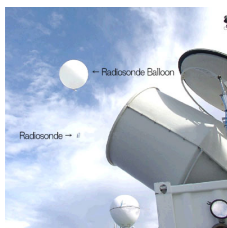
Data Citation

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

### Instrument

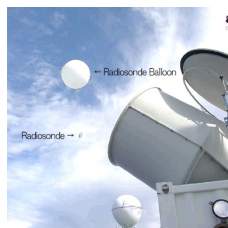
Instrument:

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 [%]	
99010300.dat	1999/01/03	00:03	2.10N	142.81E	816106407	259	3.7	0.3	-3.0	
99010400.dat	1999/01/03	23:29	0.01S	145.03E	816106304	259	3.5	0.3	-1.0	
99010500.dat	1999/01/04	23:25	0.00N	147.48E	816106414	260	3.5	0.3	0.0	
99010600.dat	1999/01/05	23:28	0.01N	152.84E	816106303	261	3.8	0.1	0.0	
99010700.dat	1999/01/06	23:27	0.03N	158.20E	816106413	262	3.6	0.2	-2.0	
99010800.dat	1999/01/07	23:38	0.07N	159.96E	816106409	263	4.1	0.1	0.0	
99010900.dat	1999/01/08	23:28	0.00N	163.46E	816106404	264	3.6	0.2	-1.0	
99011000.dat	1999/01/09	23:29	0.02N	168.85E	816106408	265	4.0	0.3	0.0	
99011100.dat	1999/01/10	23:28	0.01N	173.97E	816106403	266	0.4	0.2	-1.0	
99011200.dat	1999/01/11	23:48	0.07N	174.91E	816106514	267	0.3	-0.1	1.0	

#### Reference

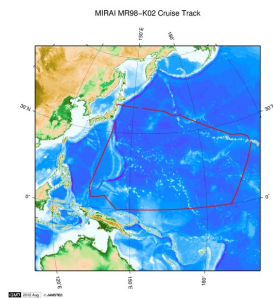
K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002:Radiosonde observation from the ship in the tropical region. [\[PDF:400kbyte\]](#) JAMSTECR, Vol.45, 31-39.

#### Others

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

#### Note

### Related Information



[Enlarge Image](#)

#### MR98-K02

Ship Name: MIRAI

Period: 1998-12-22 - 1999-01-31

Chief Scientist: Takeshi Kawano (JAMSTEC)

#### Update History

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

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## MIRAI MR98-K02 Radiosonde

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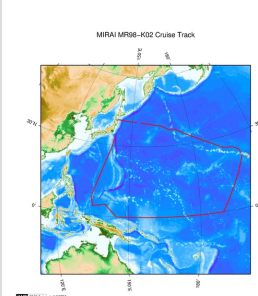
Radiosonde: Processed (DMO)-Corrected

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### 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



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#### MR98-K02

Ship Name: MIRAI  
Period: 1998-12-22 - 1999-01-31  
Chief Scientist: Takeshi Kawano (JAMSTEC)

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### Observation Map

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

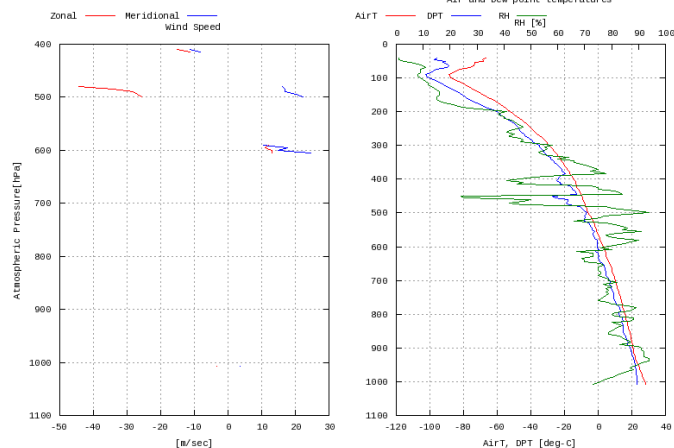


— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

### Figures

99010300

MR98-K02: 99010300  
Radiosonde



### Data List

☐ File names

☐ 99010300.dat

☐ 99010400.dat

☐ 99010500.dat

☐ 99010600.dat

☐ 99010700.dat

☐ 99010800.dat

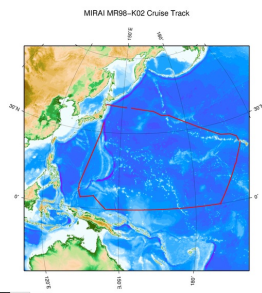
☐ 99010900.dat

☐ 99011000.dat

☐ 99011100.dat

☐ 99011200.dat

#### Related Information



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Chief Scientist: Takeshi Kawano (JAMSTEC)

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