

## MIRAI MR00-K06 Radiosonde

Last Modified: 2014-07-11

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

Cruise ID: [MR00-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

**For Using Data**

**Principal Investigator**

Data Management Office

**Use Constraints**

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

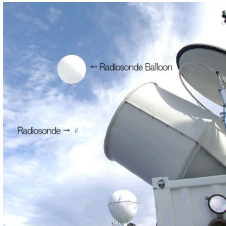
**Data Citation**

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

**Instrument**

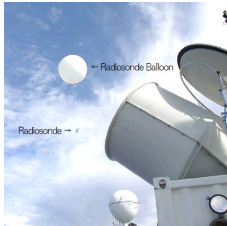
Instrument:

Radiosonde (MR11-03 - MR15-E01  
Leg3)



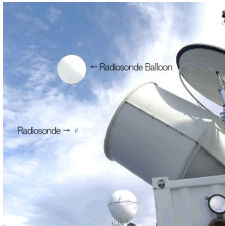
Instrument:

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 [%]	
00091500.dat	2000/09/14	23:28	71.25N	146.93W	021203900	115	1.9	-0.5	-4.0	
00091512.dat	2000/09/15	11:30	71.03N	145.14W	021203910	116	1.6	-0.4	-1.0	
00091600.dat	2000/09/15	23:29	70.50N	141.00W	021203913	116	1.2	0.0	-1.0	
00091612.dat	2000/09/16	11:29	69.71N	138.16W	021203904	117	1.7	-0.5	-1.0	
00091700.dat	2000/09/16	23:29	69.96N	138.47W	021203911	117	1.2	-0.3	-2.0	
00091712.dat	2000/09/17	11:29	70.46N	138.72W	021204211	118	1.3	-0.5	-1.0	
00091800.dat	2000/09/17	23:29	71.02N	139.74W	021204105	118	1.5	0.0	-4.0	
00091812.dat	2000/09/18	11:29	71.49N	141.05W	021204100	119	1.1	-0.5	-1.0	
00091900.dat	2000/09/18	23:29	71.89N	141.98W	017303201	146	1.9	-1.3	-2.0	
00091906.dat	2000/09/19	05:29	71.53N	142.28W	021204000	120	0.8	-0.7	-1.0	
00091912.dat	2000/09/19	11:29	71.50N	142.08W	021204008	120	1.3	-0.5	-2.0	
00091918.dat	2000/09/19	17:45	71.56N	141.85W	021204004	120	1.2	-0.4	-1.0	
00092000.dat	2000/09/19	23:29	71.22N	145.42W	021204005	120	1.1	-1.2	-1.0	
00092012.dat	2000/09/20	11:29	71.11N	149.11W	021204014	121	0.7	-0.5	-1.0	
00092100.dat	2000/09/20	23:29	71.65N	149.82W	021203906	121	1.4	-0.3	-2.0	
00092112.dat	2000/09/21	11:29	70.94N	146.52W	021204104	122	1.3	-0.2	-2.0	
00092200.dat	2000/09/21	23:33	71.23N	148.80W	017303200	149	1.3	-0.4	-2.0	
00092212.dat	2000/09/22	11:29	71.68N	152.62W	017303203	150	2.0	-0.4	-2.0	
00092300.dat	2000/09/22	23:30	72.07N	154.51W	017303202	150	2.3	-1.5	-1.0	
00092312.dat	2000/09/23	11:29	72.87N	157.89W	017303204	151	1.1	-0.4	-1.0	

**Reference**

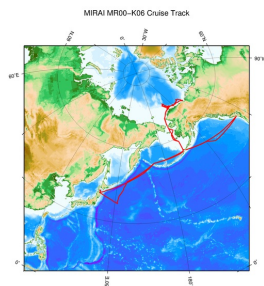
- Main processor: DigiCORA ■ MW11(before 2004 Jul.) [VAISALA, Finland]
- Radiosonde Sensor: RS80 [VAISALA, Finland]
- Launcher Location: 22m (from base line)

**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](#)

### MR00-K06

Ship Name: MIRAI

Period: 2000-08-03 - 2000-10-13

Chief Scientist: Takatoshi Takizawa (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

## Update History

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

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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](#)  
[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:

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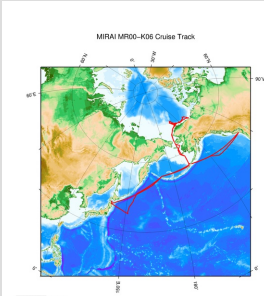
Radiosonde: Processed (DMO)-Corrected

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



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#### MR00-K06

Ship Name: MIRAI

Period: 2000-08-03 - 2000-10-13

Chief Scientist: Takatoshi Takizawa (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

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Data Policy: [JAMSTEC](#)

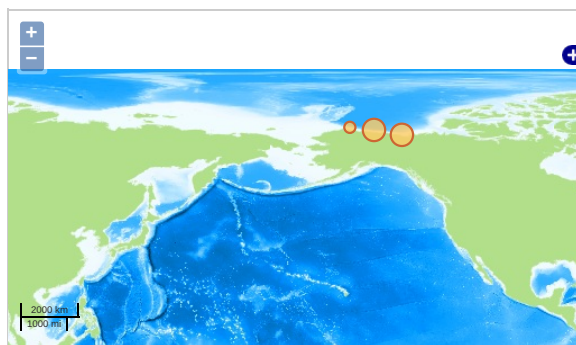
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### Observation Map

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

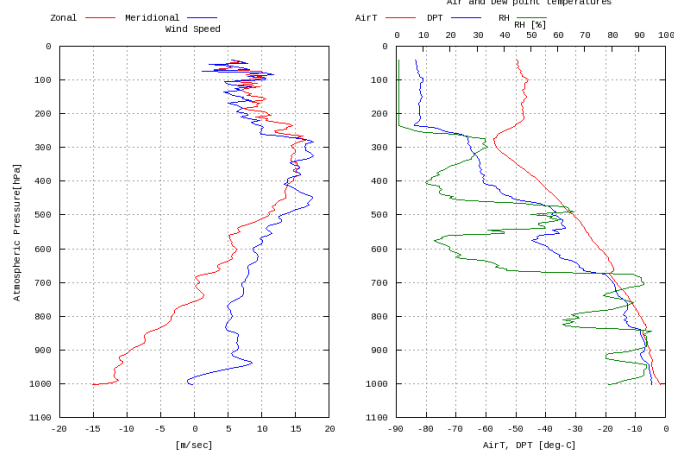


— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

### Figures

00091500

MR00-K06: 00091500  
Radiosonde



### Data List

☐ File names

☐ 00091500.dat

☐ 00091512.dat

☐ 00091600.dat

☐ 00091612.dat

☐ 00091700.dat

☐ 00091712.dat

☐ 00091800.dat

☐ 00091812.dat

☐ 00091900.dat

☐ 00091906.dat

☐ 00091912.dat

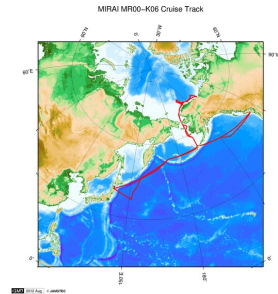
☐ 00091918.dat

☐ 00092000.dat

☐ 00092012.dat

<input type="checkbox"/>	00092100.dat
<input type="checkbox"/>	00092112.dat
<input type="checkbox"/>	00092200.dat
<input type="checkbox"/>	00092212.dat
<input type="checkbox"/>	00092300.dat
<input type="checkbox"/>	00092312.dat

#### Related Information



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