

## MIRAI MR02-K04 Leg2 Radiosonde

Last Modified: 2016-10-17

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

Cruise ID: [MR02-K04 Leg2](#)

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/MR02-K04\\_leg2\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR02-K04_leg2_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.

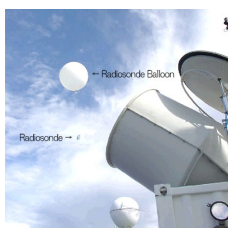
#### Data Citation

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

### Instrument

Instrument:

Radiosonde ( - MR04-02)



### 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 [%]	
02072700.dat	2002/07/26	23:29	3.83N	91.80E	214709212	111	0.1	0.5	0.0	
02072706.dat	2002/07/27	05:25	4.53N	90.74E	214709215	112	0.9	-0.1	0.0	
02072712.dat	2002/07/27	11:26	5.00N	90.00E	214708805	112	0.3	0.0	0.0	
02072718.dat	2002/07/27	17:24	3.99N	90.00E	214708713	112	0.5	-0.3	-5.0	
02072800.dat	2002/07/27	23:29	3.00N	90.00E	214708709	112	0.7	0.1	0.0	
02072806.dat	2002/07/28	05:24	2.00N	89.99E	214708705	113	1.2	0.1	2.0	
02072812.dat	2002/07/28	11:25	0.99N	90.00E	214708815	113	0.2	0.4	1.0	
02072818.dat	2002/07/28	17:24	0.04N	90.06E	214708810	113	1.6	0.0	0.0	
02072900.dat	2002/07/28	23:25	0.01N	90.05E	214708301	113	0.5	-0.3	1.0	
02072903.dat	2002/07/29	02:24	0.01N	90.06E	214709214	114	0.4	-0.1	-1.0	
02072906.dat	2002/07/29	05:25	0.02N	90.01E	214708413	114	0.9	0.2	0.0	
02072909.dat	2002/07/29	08:37	0.28S	90.02E	214708409	114	-0.6	-0.4	-3.0	
02072912.dat	2002/07/29	11:24	0.85S	90.02E	214708404	114	0.5	0.0	-3.0	
02072915.dat	2002/07/29	14:26	1.61S	90.07E	214708400	114	0.5	0.0	-3.0	
02072918.dat	2002/07/29	17:25	1.62S	90.06E	214708712	114	0.7	-0.1	-1.0	
02072921.dat	2002/07/29	20:22	1.60S	90.08E	214708708	114	0.7	-0.2	4.0	
02073000.dat	2002/07/29	23:25	1.62S	90.09E	214708804	114	0.6	-0.1	1.0	
02073003.dat	2002/07/30	02:23	1.64S	90.08E	214708702	115	0.7	0.0	1.0	
02073006.dat	2002/07/30	05:24	1.60S	90.06E	214708814	115	0.4	-0.1	1.0	
02073009.dat	2002/07/30	08:25	1.74S	89.99E	214708809	115	0.8	0.2	0.0	
02073012.dat	2002/07/30	11:23	2.00S	90.00E	214708701	115	0.8	-0.3	2.0	
02073015.dat	2002/07/30	14:22	1.70S	89.99E	214708812	115	0.5	-0.3	1.0	
02073018.dat	2002/07/30	17:22	1.72S	89.97E	214708807	115	0.6	-0.1	1.0	
02073021.dat	2002/07/30	20:27	1.73S	89.97E	214708801	115	0.2	0.0	0.0	

02073100.dat	2002/07/30	23:25	1.67S	90.00E	214708411	115	0.5	0.0	0.0	
02073106.dat	2002/07/31	05:35	2.02S	89.99E	214708706	116	0.9	0.2	0.0	
02073112.dat	2002/07/31	11:27	3.01S	90.01E	214708302	116	0.7	-0.1	1.0	
02073118.dat	2002/07/31	17:22	4.00S	90.00E	214708714	116	1.0	-0.1	1.0	
02080100.dat	2002/07/31	23:22	4.99S	90.00E	214708710	116	0.3	0.2	0.0	
02080106.dat	2002/08/01	05:35	4.99S	91.00E	214708410	117	0.1	1.4	1.0	
02080112.dat	2002/08/01	11:25	4.99S	92.00E	214708700	117	0.0	0.0	1.0	
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02080200.dat	2002/08/01	23:25	5.00S	94.00E	214708811	117	0.5	0.0	1.0	
02080206.dat	2002/08/02	05:23	5.06S	94.97E	214708806	118	1.0	0.3	0.0	
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02080218.dat	2002/08/02	17:25	4.93S	95.02E	214709213	118	0.5	-0.1	0.0	
02080300.dat	2002/08/02	23:26	4.98S	94.99E	214709413	118	0.6	0.2	0.0	
02080303.dat	2002/08/03	02:26	4.99S	95.00E	214709409	119	0.2	0.2	2.0	
02080306.dat	2002/08/03	05:25	5.10S	95.28E	214709411	119	0.7	-0.6	0.0	
02080309.dat	2002/08/03	08:25	5.32S	96.01E	214709412	119	0.6	0.1	0.0	
02080312.dat	2002/08/03	11:26	5.58S	96.76E	214709408	119	0.4	0.2	0.0	
02080315.dat	2002/08/03	14:25	5.84S	97.48E	214709410	119	0.4	-0.2	-1.0	
02080318.dat	2002/08/03	17:26	6.07S	98.14E	214709405	119	0.2	-0.1	1.0	
02080321.dat	2002/08/03	20:29	6.36S	98.88E	214709404	119	0.1	-0.2	-2.0	
02080400.dat	2002/08/03	23:25	6.63S	99.60E	214709613	119	0.3	-0.2	-1.0	
02080403.dat	2002/08/04	02:25	6.80S	100.21E	214709401	120	0.6	0.5	-1.0	
02080406.dat	2002/08/04	05:25	7.04S	100.84E	214709205	120	0.2	0.0	1.0	
02080409.dat	2002/08/04	08:28	7.30S	101.56E	214709204	120	0.4	-0.5	3.0	
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02080421.dat	2002/08/04	20:25	8.14S	103.99E	214709202	120	0.6	0.0	0.0	
02080500.dat	2002/08/04	23:25	8.36S	104.59E	214709201	120	0.4	-0.1	1.0	
02080506.dat	2002/08/05	05:25	8.83S	105.91E	214708406	121	0.5	-0.1	1.0	
02080512.dat	2002/08/05	11:25	9.26S	107.17E	214709200	121	0.5	0.0	-1.0	
02080518.dat	2002/08/05	17:26	9.73S	108.49E	214709415	121	0.1	0.3	0.0	
02080600.dat	2002/08/05	23:25	10.19S	109.84E	214709414	121	0.8	0.1	1.0	
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02081406.dat	2002/08/14	05:25	14.07N	132.52E	214709400	130	0.6	0.0	1.0	
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02081418.dat	2002/08/14	17:26	17.02N	133.80E	214709609	130	0.5	0.0	0.0	
02081500.dat	2002/08/14	23:28	18.40N	134.39E	214709611	130	1.0	0.5	0.0	

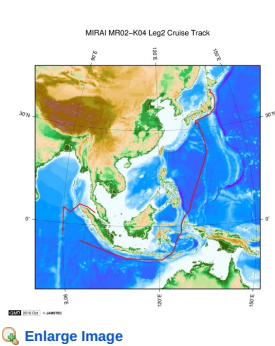
Reference

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)

Related Information



**MR02-K04 Leg2**  
Ship Name: MIRAI  
Period: 2002-07-25 - 2002-08-22  
Chief Scientist: Hideaki Hase (JAMSTEC)

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Update History

2016-10-17      An observation data was registered.

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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)  
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Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:



## MIRAI MR02-K04 Leg2 Radiosonde

Last Modified: 2016-10-17

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Cruise ID: [MR02-K04 Leg2](#)

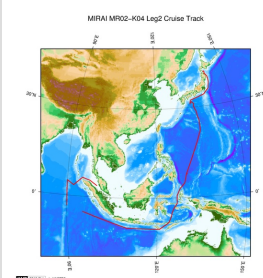
Radiosonde: Processed (DMO)-Corrected

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



#### MR02-K04 Leg2

Ship Name: MIRAI

Period: 2002-07-25 - 2002-08-22

Chief Scientist: Hideaki Hase (JAMSTEC)

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[CHIKYU](#)  
[KAIMEI](#)  
[SHINSEI MARU](#)  
[HAKUHO MARU](#)

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[SHINKAI 2000](#)  
[SHINKAI 6500](#)  
[DEEP TOW](#)  
[HYPER-DOLPHIN](#)  
[URASHIMA](#)  
[YOKOSUKA DEEP TOW](#)  
[6K Camera DEEP TOW](#)  
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[KM-ROV](#)  
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## MIRAI MR02-K04 Leg2 Radiosonde

Last Modified: 2016-10-17

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Cruise ID: [MR02-K04 Leg2](#)

Radiosonde: Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

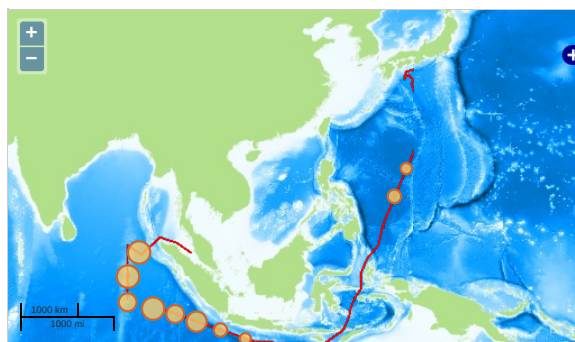
Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

Science Keywords:

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

### Observation Map

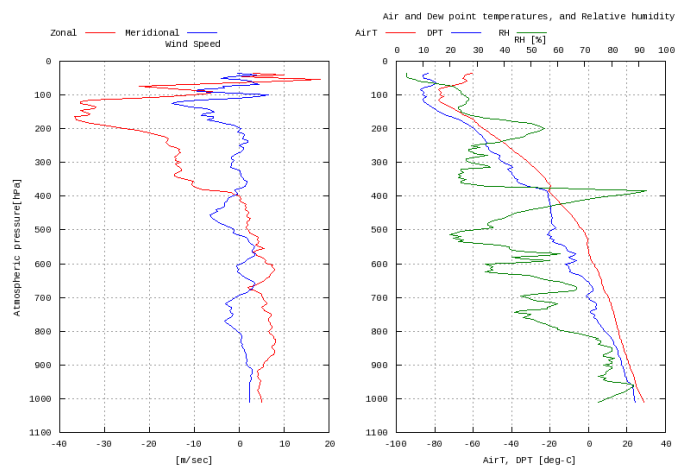
- Clicking the icon displays a balloon with observation information.
- Then click the observation name, figures will be displayed.



### Figures

02072700

MR02-K04 Leg2: 02072700  
Radiosonde



### Data List

☐ File names

☐ 02072700.dat

☐ 02072706.dat

☐ 02072712.dat

☐ 02072718.dat

☐ 02072800.dat

☐ 02072806.dat

☐ 02072812.dat

☐ 02072818.dat

☐ 02072900.dat

☐ 02072903.dat

☐ 02072906.dat

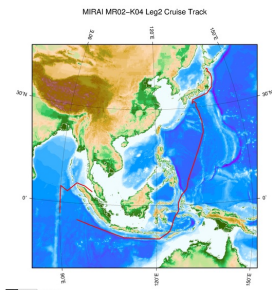
☐ 02072909.dat

☐ 02072912.dat

☐ 02072915.dat

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<input type="checkbox"/>	02073000.dat
<input type="checkbox"/>	02073003.dat
<input type="checkbox"/>	02073006.dat
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<input type="checkbox"/>	02081418.dat
<input type="checkbox"/>	02081500.dat

#### Related Information



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#### MR02-K04 Leg2

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Chief Scientist: Hideaki Hase (JAMSTEC)

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YOKOSUKA DEEP TOW

#### Go to a Cruise Information

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Dive ID:

Feeds

SHINSEI MARU  
HAKUHO MARU

6K Camera DEEP TOW  
6K Sonar DEEP TOW  
KM-ROV  
POWER GRAB SAMPLER  
(SHELL)  
POWER GRAB SAMPLER  
(CLOW)  
BMS

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