

MIRAI MR00-K07 Leg2 Radiosonde

Last Modified: 2016-10-11

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Cruise ID: [MR00-K07 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/MR00-K07_leg1-2_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.

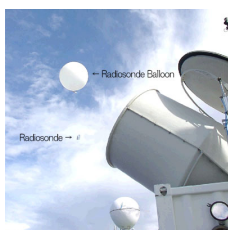
Data Citation

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 [%]	
00111212.dat	2000/11/12	11:30	5.88N	89.95E	033505612	87	0.3	0.0	-1.0	
00111215.dat	2000/11/12	14:43	5.09N	90.00E	033508802	87	0.4	0.0	-3.0	
00111218.dat	2000/11/12	17:37	4.85N	90.00E	033505613	87	0.3	0.1	0.0	
00111221.dat	2000/11/12	20:42	4.05N	90.00E	033508803	87	0.4	-0.1	0.0	
00111300.dat	2000/11/12	23:29	3.87N	90.00E	033505614	87	0.4	0.1	-1.0	
00111303.dat	2000/11/13	02:41	3.15N	90.00E	033505615	88	0.4	0.0	-1.0	
00111306.dat	2000/11/13	05:29	2.87N	89.99E	033505608	88	0.4	0.1	1.0	
00111309.dat	2000/11/13	08:39	2.11N	90.00E	033505609	88	0.7	0.2	0.0	
00111312.dat	2000/11/13	11:28	1.84N	90.00E	033505610	88	0.4	0.2	-2.0	
00111315.dat	2000/11/13	14:42	1.02N	90.00E	033505611	88	0.3	0.1	-1.0	
00111318.dat	2000/11/13	17:29	0.78N	89.93E	033508801	88	0.6	-0.1	-1.0	
00111321.dat	2000/11/13	21:22	0.15N	90.07E	033508800	88	0.0	0.1	-1.0	
00111400.dat	2000/11/13	23:11	0.10N	89.77E	033508807	88	0.3	0.0	-2.0	
00111403.dat	2000/11/14	02:35	0.00N	89.84E	033508806	89	0.6	0.1	0.0	
00111406.dat	2000/11/14	04:53	0.03S	90.12E	033508805	89	0.7	0.0	-4.0	
00111409.dat	2000/11/14	08:29	0.00N	90.06E	033508804	89	0.4	0.2	-1.0	
00111412.dat	2000/11/14	11:29	0.28S	90.00E	033508812	89	0.0	0.0	-1.0	
00111418.dat	2000/11/14	17:30	1.21S	90.00E	033508811	89	0.6	0.1	-2.0	
00111500.dat	2000/11/14	23:29	2.18S	90.01E	033508808	89	0.4	0.1	-1.0	
00111506.dat	2000/11/15	05:49	3.34S	90.00E	033508809	90	-0.4	0.1	-2.0	
00111512.dat	2000/11/15	11:28	4.24S	90.00E	033508406	90	1.0	0.3	-1.0	
00111518.dat	2000/11/15	17:28	5.00S	90.23E	033508405	90	0.5	0.2	-1.0	
00111521.dat	2000/11/15	20:39	5.00S	90.97E	033508715	90	0.3	0.3	-1.0	
00111600.dat	2000/11/15	23:28	5.00S	91.22E	033508404	90	0.8	0.2	2.0	

00111603.dat	2000/11/16	02:38	5.00S	91.97E	033508403	91	0.6	0.3	-2.0	
00111606.dat	2000/11/16	05:28	5.00S	92.26E	033508400	91	0.7	0.2	-1.0	
00111609.dat	2000/11/16	08:38	5.00S	92.98E	033508704	91	0.2	0.3	-2.0	
00111612.dat	2000/11/16	11:28	5.00S	93.27E	033508402	91	0.1	0.1	-2.0	
00111615.dat	2000/11/16	14:28	5.00S	94.00E	033508713	91	0.6	0.2	3.0	
00111618.dat	2000/11/16	17:29	4.94S	94.34E	033508709	91	0.4	0.1	-1.0	
00111621.dat	2000/11/16	20:33	4.85S	95.10E	033508707	91	0.4	0.3	1.0	
00111700.dat	2000/11/16	23:58	4.97S	95.17E	033508815	91	0.4	-0.1	0.0	
00111703.dat	2000/11/17	02:28	4.97S	95.02E	033508700	92	0.4	0.1	-1.0	
00111706.dat	2000/11/17	05:29	5.00S	95.01E	033508701	92	0.4	0.3	-1.0	
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00111712.dat	2000/11/17	11:28	5.02S	95.09E	033508712	92	0.3	0.3	2.0	
00111715.dat	2000/11/17	14:28	5.03S	94.91E	033508702	92	0.5	0.2	-1.0	
00111718.dat	2000/11/17	17:29	5.00S	94.90E	033508705	92	0.2	0.0	-2.0	
00111721.dat	2000/11/17	20:29	5.05S	94.88E	033508711	92	0.2	0.2	-1.0	
00111800.dat	2000/11/17	23:29	5.14S	95.33E	033508710	92	0.2	0.1	0.0	
00111803.dat	2000/11/18	02:18	5.25S	95.91E	024302908	158	0.4	-0.2	-3.0	
00111806.dat	2000/11/18	05:29	5.40S	96.58E	024302909	158	0.2	0.2	-2.0	
00111809.dat	2000/11/18	08:29	5.45S	97.24E	024302910	158	0.2	0.2	-1.0	
00111812.dat	2000/11/18	11:18	5.52S	97.89E	024302911	158	0.4	0.0	-1.0	

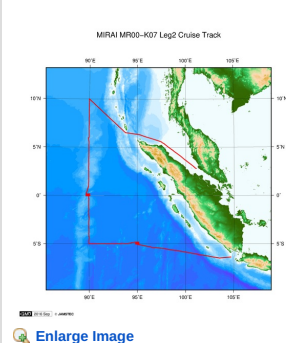
Reference

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)

Related Information



MR00-K07 Leg2

Ship Name: MIRAI
Period: 2000-11-09 - 2000-11-20
Chief Scientist: Keisuke Mizuno (JAMSTEC)
Project Name: [Tropical Ocean Climate Study (TOCS)]

Update History

2016-10-11 An observation data was registerd.

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MIRAI MR00-K07 Leg2 Radiosonde

Last Modified: 2016-10-11

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Cruise ID: [MR00-K07 Leg2](#)

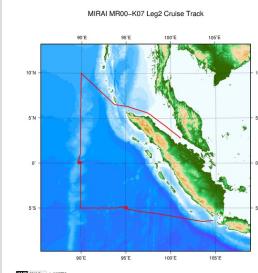
Radiosonde: Processed (DMO)-Corrected

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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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MR00-K07 Leg2

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Chief Scientist: Keisuke Mizuno (JAMSTEC)

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

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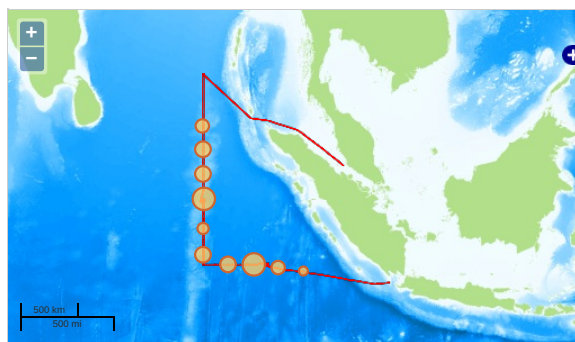
Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

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

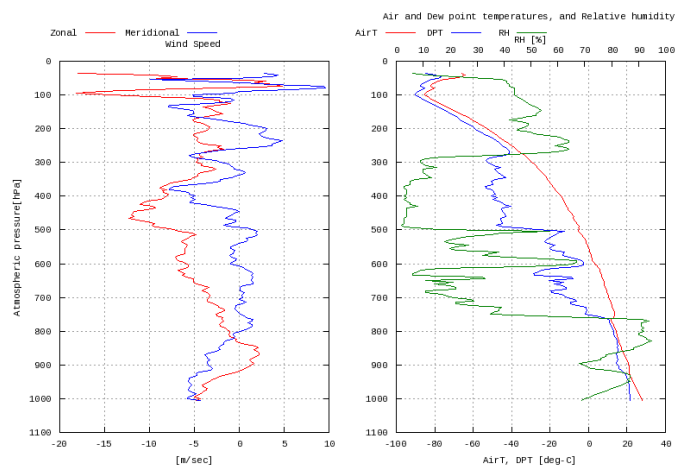
- Clicking the icon displays a balloon with observation information.
- Then click the observation name, figures will be displayed.



Figures

00111212

MR00-K07 Leg2: 00111212
Radiosonde



Data List

☐ File names

☐ 00111212.dat

☐ 00111215.dat

☐ 00111218.dat

☐ 00111221.dat

☐ 00111300.dat

☐ 00111303.dat

☐ 00111306.dat

☐ 00111309.dat

☐ 00111312.dat

☐ 00111315.dat

☐ 00111318.dat

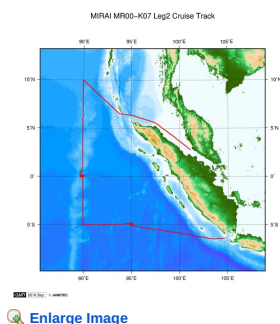
☐ 00111321.dat

☐ 00111400.dat

☐ 00111403.dat

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<input type="checkbox"/>	00111706.dat
<input type="checkbox"/>	00111709.dat
<input type="checkbox"/>	00111712.dat
<input type="checkbox"/>	00111715.dat
<input type="checkbox"/>	00111718.dat
<input type="checkbox"/>	00111721.dat
<input type="checkbox"/>	00111800.dat
<input type="checkbox"/>	00111803.dat
<input type="checkbox"/>	00111806.dat
<input type="checkbox"/>	00111809.dat
<input type="checkbox"/>	00111812.dat

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