

MIRAI MR11-08 Leg1 Radiosonde

Last Modified: 2014-08-09

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

Cruise ID: [MR11-08 Leg1](#)

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/MR11-08_leg1-3_all.pdf

For Using Data

Principal Investigator

Data Management Office

Use Constraints

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

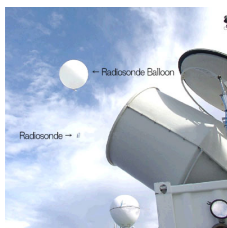
Data Citation

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

Instrument

Instrument:

Radiosonde (MR11-03 - MR15-E01
Leg3)



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 table of data page. 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 humidity1[%]	Relative humidity2[%]	
11120512.dat	2011/12/05	11:30	3.07N	83.57E	G2314548	188	0.29	-0.17	0.11	0.10	
11120518.dat	2011/12/05	17:30	2.35N	84.49E	G2253168	192	0.27	-0.23	-0.10	-0.08	
11120600.dat	2011/12/05	23:30	1.65N	85.45E	G2253167	192	0.07	-0.24	0.02	0.01	
11120606.dat	2011/12/06	05:30	0.95N	86.40E	G2314550	189	0.15	-0.22	0.09	0.06	
11120612.dat	2011/12/06	11:30	0.25N	87.36E	G2314543	190	0.09	-0.18	0.00	0.00	
11120618.dat	2011/12/06	17:30	0.46S	88.26E	G2253155	193	0.12	-0.18	-0.08	-0.10	
11120700.dat	2011/12/06	23:30	1.17S	89.20E	G2253140	193	0.65	-0.22	-0.03	-0.02	
11120706.dat	2011/12/07	05:30	1.84S	90.10E	G2253164	193	0.26	-0.17	0.07	0.05	
11120712.dat	2011/12/07	11:30	2.47S	90.92E	G2253163	194	0.12	-0.14	0.06	0.05	
11120718.dat	2011/12/07	17:30	3.11S	91.78E	G2234077	196	0.21	-0.17	-0.05	-0.04	
11120800.dat	2011/12/07	23:30	3.76S	92.66E	G2234070	196	0.17	-0.20	-0.08	-0.08	
11120806.dat	2011/12/08	05:30	4.42S	93.52E	G2253157	194	0.35	-0.28	0.04	0.03	
11120812.dat	2011/12/08	11:30	5.09S	94.43E	G2253148	194	0.09	-0.26	0.10	0.06	
11120818.dat	2011/12/08	17:30	5.74S	95.30E	G2253139	195	0.24	-0.23	-0.01	0.00	
11120900.dat	2011/12/08	23:30	6.38S	96.16E	G2234084	197	0.29	-0.10	0.01	0.01	Drizzle
11120906.dat	2011/12/09	05:30	6.99S	97.03E	G2253165	195	0.28	-0.17	0.05	-0.02	
11120912.dat	2011/12/09	11:30	7.66S	97.87E	G2234062	198	0.02	-0.22	-0.08	-0.05	
11120918.dat	2011/12/09	17:30	8.31S	98.75E	G2253146	196	0.49	-0.22	-0.02	-0.02	

11121000.dat	2011/12/09 23:30	8.85S	99.71E	G2224087	198	0.16	-0.13	-0.12	-0.12		
11121006.dat	2011/12/09 05:30	9.20S	100.74E	G2224088	198	-0.13	-0.08	-0.06	-0.05		
Data file Reference	Date	Time	Latitude	Longitude	Serial No.	Age	Atmospheric pressure[hPa]	Air temperature[deg- C]	Relative humidity1[%]	Relative humidity2[%]	Note
	K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002: Radiosonde observation from the ship in the tropical region. JAMSTECR, Vol.45, 31-39.										

Others

- Main processor: DigiCORAll, MW31(after 2011 Apr.) [VAISALA, Finland]
- Radiosonde Sensor: RS92-SGP, RS80-15GH, RS80-15G [VAISALA, Finland]
- * The observations which using the RS80 sensors were mentioned in the "Note" of data page (other observations were performed using the RS92 sensors).
- Launcher Location: 22m (from base line)

Note

Related Information

MR11-08 Leg1
 Ship Name: MIRAI
 Period: 2011-12-04 - 2011-12-20
 Chief Scientist: Yuichiro Kumamoto (JAMSTEC)

Update History

2014-08-09	An observation data was registered.
2014-07-30	An observation data was registered.

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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)

BMS

Go to a Cruise Information

Cruise ID:

Go

Go to a Dive Information

Dive ID:

Go

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JAMSTEC

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MIRAI MR11-08 Leg1 Radiosonde

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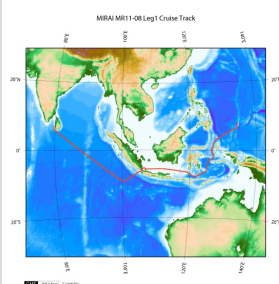
Radiosonde: Processed (DMO)-Corrected

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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



[Enlarge Image](#)

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6K Sonar DEEP TOW
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SAMPLER (SHELL)
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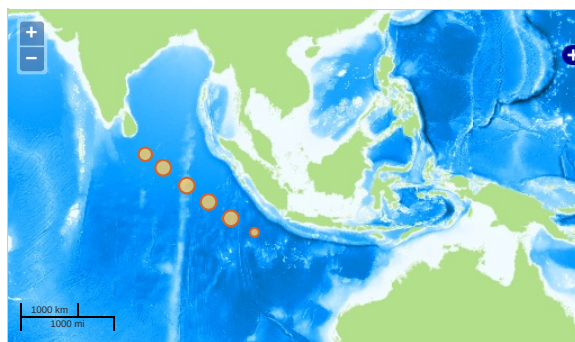
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Observation Map

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



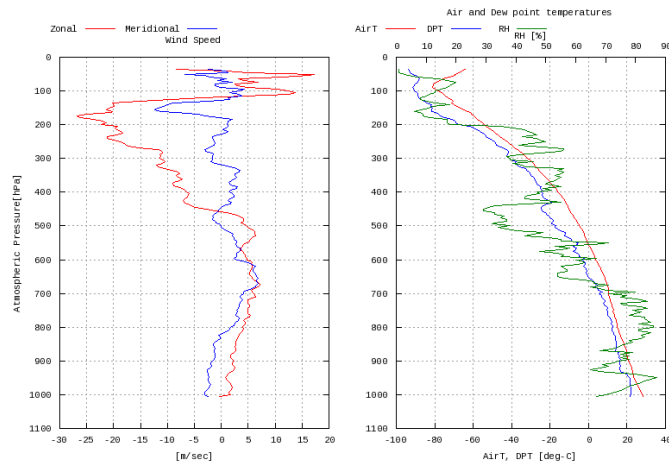
— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

Imagery reproduced from ...

Figures

11120512

MR11-08 Leg1:11120512
Radiosonde



Data List

☐ File names

☐ 11120512.dat

☐ 11120518.dat

☐ 11120600.dat

☐ 11120606.dat

☐ 11120612.dat

☐ 11120618.dat

☐ 11120700.dat

☐ 11120706.dat

☐ 11120712.dat

☐ 11120718.dat

☐ 11120800.dat

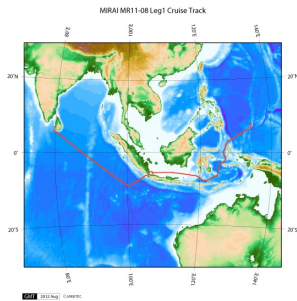
☐ 11120806.dat

☐ 11120812.dat

☐ 11120818.dat

<input type="checkbox"/>	File names
<input type="checkbox"/>	11120906.dat
<input type="checkbox"/>	11120912.dat
<input type="checkbox"/>	11120918.dat
<input type="checkbox"/>	11121000.dat
<input type="checkbox"/>	11121006.dat

Related Information



[Enlarge Image](#)

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