

MIRAI MR11-06 Radiosonde

Last Modified: 2016-04-07

ReadMe Observation Data Data Format

Cruise ID: [MR11-06](#)

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/MR11-06_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 (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[%]	
11081603.dat	2011/08/16	02:30	38.09N	146.40E	G0540822	200	-0.11	-0.14	-0.11	-0.19	
11081605.dat	2011/08/16	04:30	37.82N	146.35E	E5340073	592	0.96	-0.21	-0.09	-0.10	
11081607.dat	2011/08/16	06:30	37.55N	146.28E	F0110343	595	1.08	-0.36	-0.05	-0.04	
11081608.dat	2011/08/16	07:30	37.29N	146.19E	F0110348	595	0.63	-0.30	-0.02	-0.01	
11081610.dat	2011/08/16	09:30	37.04N	146.10E	F0110373	595	0.60	-0.25	-0.08	-0.07	
11081611.dat	2011/08/16	10:30	36.79N	146.02E	F0110379	595	0.94	-0.16	-0.16	-0.16	
11081613.dat	2011/08/16	12:30	36.53N	145.94E	G0530516	202	0.13	-0.16	0.49	-0.01	
11081614.dat	2011/08/16	13:30	36.29N	145.85E	G0540800	201	0.30	-0.12	-0.04	-0.05	
11081617.dat	2011/08/16	16:30	36.00N	145.76E	G0540826	201	0.30	-0.25	0.00	-0.03	
11081619.dat	2011/08/16	18:30	35.78N	145.70E	G0540794	201	0.01	-0.83	0.04	0.00	Drizzle
11081620.dat	2011/08/16	19:30	35.54N	145.62E	G0540091	201	0.28	-0.15	-0.11	-0.08	Drizzle
11081622.dat	2011/08/16	21:30	35.29N	145.52E	G0540788	201	0.51	-0.29	-0.05	-0.11	Rain
11081623.dat	2011/08/16	22:30	35.05N	145.43E	G0540830	201	0.17	-0.21	-0.15	-0.14	
11081701.dat	2011/08/17	00:30	34.80N	145.36E	G0540819	201	0.59	-0.25	-0.07	-0.09	
11081702.dat	2011/08/17	01:30	34.56N	145.28E	G0540831	201	0.19	-0.18	-0.14	-0.13	
11081704.dat	2011/08/17	03:30	34.29N	145.19E	G0540803	201	0.33	-0.20	-0.05	-0.21	
11081705.dat	2011/08/17	04:30	33.99N	145.07E	G0540804	201	0.34	-0.17	-0.13	-0.12	

	Launch time (UTC)	Launch date	Launch time	Latitude	Longitude	Sensor information	Age	Atmospheric pressure[hPa]	Temperature[deg-C]	Relative humidity1[%]	Relative humidity2[%]	Note	
11081707.dat	2011/08/17 06:30	2011/08/17	06:30	33.55N	144.94E	G0540799	201	0.17	-0.12	Calibration result	-0.08	-0.20	
11081708.dat	2011/08/17 07:30	2011/08/17	07:30	33.55N	144.94E	G0540787	201	0.03	-0.21	Air	-0.08	-0.12	Note
11081710.dat	2011/08/17 09:30	2011/08/17	09:30	33.03N	144.86E	G0540700	201	0.17	-0.15	Temperature	-0.08	-0.11	
11081711.dat	2011/08/17 10:30	2011/08/17	10:30	33.03N	144.76E	G0540806	201	0.07	-0.15	C	-0.07	-0.04	Rain
11081713.dat	2011/08/17 12:30	2011/08/17	12:30	32.79N	144.69E	G0530518	203	0.35	-0.17		-0.21	-0.20	
11081715.dat	2011/08/17 14:30	2011/08/17	14:30	32.48N	144.57E	G0540789	202	0.00	-0.23		-0.08	-0.16	

Reference

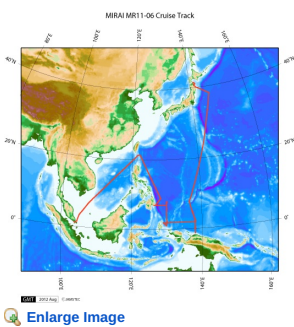
K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002:Radiosonde observation from the ship in the tropical region.[PDF:400kbyte]
JAMSTECR, Vol.45, 31-39.

Others

- Main processor: DigiCORAL ■ ■ 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



MR11-06

Ship Name: MIRAI
Period: 2011-08-13 - 2011-09-20
Chief Scientist: Yuji Kashino (JAMSTEC)
Project Name: [Tropical Ocean Climate Study (TOCS), Station KEO]
Proposal ▶ Tropical Ocean Climate Study
Title:

Update History

2016-04-07	An observation data was registered.
2014-08-08	An observation data was registered.
2014-07-30	An observation data was registered.

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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

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Dive ID:



MIRAI MR11-06 Radiosonde

Last Modified: 2016-04-07

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Cruise ID: **MR11-06**

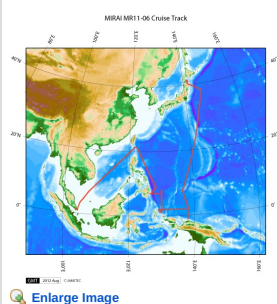
Radiosonde: Processed (DMO)-Corrected

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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

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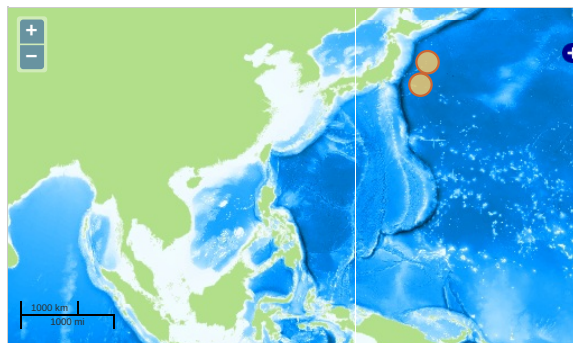
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Observation Map

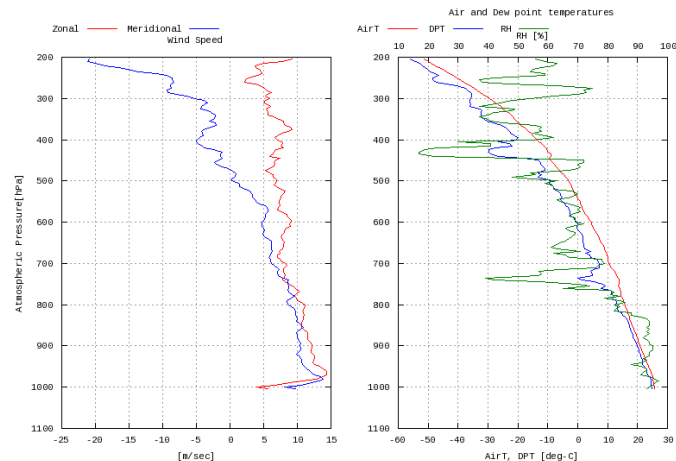
- Clicking the icon displays a balloon with observation information.
- Then click the observation name, figures will be displayed.



Figures

11081603

MR11-06: 11081603
Radiosonde



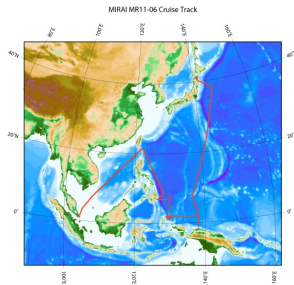
Data List

☐ File names

- ☐ 11081603.dat
- ☐ 11081605.dat
- ☐ 11081607.dat
- ☐ 11081608.dat
- ☐ 11081610.dat
- ☐ 11081611.dat
- ☐ 11081613.dat
- ☐ 11081614.dat
- ☐ 11081617.dat
- ☐ 11081619.dat
- ☐ 11081620.dat
- ☐ 11081622.dat
- ☐ 11081623.dat
- ☐ 11081701.dat

<input type="checkbox"/>	Files
<input type="checkbox"/>	11081702.dat
<input type="checkbox"/>	11081704.dat
<input type="checkbox"/>	11081705.dat
<input type="checkbox"/>	11081707.dat
<input type="checkbox"/>	11081708.dat
<input type="checkbox"/>	11081710.dat
<input type="checkbox"/>	11081711.dat
<input type="checkbox"/>	11081713.dat
<input type="checkbox"/>	11081715.dat

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