

MIRAI MR01-K02 Radiosonde

Last Modified: 2014-07-11

ReadMe Observation Data Data Format

Cruise ID: **MR01-K02**

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/MR01-K02_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

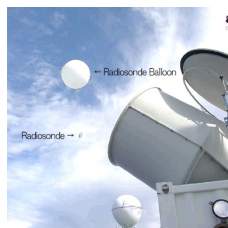
Instrument:

Radiosonde (MR11-03 - MR15-E01
Leg3)



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 [%]	
01051712.dat	2001/05/17	11:43	30.25N	146.40E	024303302	338	1.1	0.2	-5.0	
01051800.dat	2001/05/17	23:30	30.75N	146.42E	024303402	338	-0.1	-0.8	-7.0	
01051812.dat	2001/05/18	11:27	31.27N	146.39E	024302708	339	0.9	-0.1	-5.0	
01051900.dat	2001/05/18	23:32	31.98N	146.42E	024302914	339	-0.1	-0.4	-7.0	
01051912.dat	2001/05/19	11:28	32.50N	146.41E	024302700	340	0.5	-0.4	-6.0	
01052000.dat	2001/05/19	23:33	33.00N	146.49E	024302704	340	0.6	-0.2	-7.0	
01052012.dat	2001/05/20	11:29	33.52N	146.47E	024302800	341	0.6	-0.3	-5.0	
01052100.dat	2001/05/20	23:28	33.08N	146.42E	024302804	341	0.1	-0.2	-6.0	
01052112.dat	2001/05/21	11:29	33.76N	146.46E	024302808	342	0.1	-0.2	-6.0	
01052200.dat	2001/05/21	23:30	33.11N	146.48E	024302812	342	0.2	0.0	-6.0	
01052212.dat	2001/05/22	11:30	34.20N	146.33E	024303309	343	0.0	-1.3	-7.0	
01052300.dat	2001/05/22	23:30	34.35N	146.45E	024302801	343	0.3	0.0	-5.0	
01052308.dat	2001/05/23	07:47	35.39N	146.33E	024303208	344	0.3	-0.4	-7.0	
01052312.dat	2001/05/23	11:28	34.62N	146.33E	024303211	344	0.3	0.0	-7.0	
01052400.dat	2001/05/23	23:27	34.01N	146.42E	024303313	344	0.3	0.0	-6.0	
01052412.dat	2001/05/24	11:32	34.27N	146.45E	024303613	345	0.6	-0.1	-6.0	
01052500.dat	2001/05/24	23:28	35.01N	146.38E	024303401	345	0.4	-0.7	-6.0	
01052512.dat	2001/05/25	11:29	35.25N	146.36E	024303610	346	0.6	-0.4	-5.0	
01052600.dat	2001/05/26	00:15	35.99N	146.43E	024303201	347	0.6	0.1	-6.0	
01052612.dat	2001/05/26	11:35	36.50N	146.43E	024303409	347	0.4	-0.2	-6.0	
01052700.dat	2001/05/27	00:12	38.14N	146.42E	021204009	370	0.8	-0.2	-6.0	
01052712.dat	2001/05/27	11:50	40.00N	144.07E	021204110	370	0.0	-0.1	-5.0	
01052800.dat	2001/05/27	23:32	41.54N	141.38E	021105115	371	0.2	-1.2	-5.0	

Reference

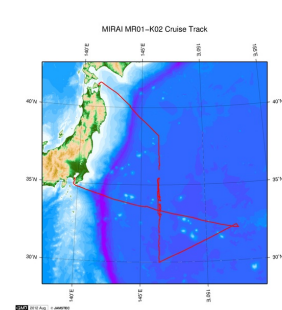
K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002:Radiosonde observation from the ship in the tropical region.[PDF:400kbyte]
JAMSTECR, Vol.45, 31-39.

Others

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

Note

Related Information



[Enlarge Image](#)

MR01-K02

Ship Name: MIRAI
Period: 2001-05-13 - 2001-05-28
Chief Scientist: Yasushi Yoshikawa (JAMSTEC)

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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Go to a Cruise Information

Cruise ID:

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