

MIRAI MR05-03 Leg2 Radiosonde

Last Modified: 2016-04-07

ReadMe Observation Data Data Format

Cruise ID: **MR05-03 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/MR05-03_leg1-3_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

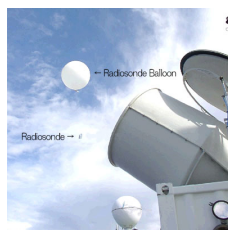
Instrument:

Radiosonde (MR11-03 - MR15-E01
Leg3)



Instrument:

Radiosonde (MR04-03 Leg1 - MR11-02)



Instrument:

Radiosonde (- MR04-02)



Overview

Correction method

- Data observed by RS80 sensors

- 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. \(2002\)](#).

- Data observed by RS92 sensors

- Correction of ship body warming

Same as above

- Correction of Dry Bias

Humidity data observed by RS92 sensors contain dry bias mainly due to solar radiation error in daytime. We have corrected the humidity data observed by RS92 sensors using [Yoneyama et al.\(2008\)](#). method. RS92 sensors have been used since MR04-03 cruise.

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 humidity1[%]	Relative humidity2[%]	
05080500.dat	2005/08/04	23:30	1.18N	89.40E	A1120402	149	-0.71	-0.32	-0.19	-0.23	
05080503.dat	2005/08/05	02:30	1.19N	89.39E	A1120403	149	0.12	-0.32	-0.17	-0.17	
05080506.dat	2005/08/05	05:30	1.17N	89.10E	A1120391	149	0.12	-0.22	-0.22	-0.25	
05080509.dat	2005/08/05	08:30	1.32N	88.77E	A1120392	149	0.23	-0.26	-0.20	-0.19	
05080512.dat	2005/08/05	11:30	1.64N	88.85E	A1120612	150	0.05	-0.24	-0.24	-0.25	
05080515.dat	2005/08/05	14:30	1.27N	88.91E	A1120393	150	0.02	-0.31	-0.18	-0.22	
05080518.dat	2005/08/05	17:30	1.31N	88.87E	A1120613	150	0.19	-0.28	-0.26	-0.25	
05080521.dat	2005/08/05	20:30	1.31N	88.89E	A1120633	150	0.04	-0.21	-0.39	-0.41	
05080600.dat	2005/08/05	23:30	1.31N	88.87E	A1210319	144	0.11	-0.23	-0.39	-0.43	
05080603.dat	2005/08/06	02:30	1.32N	88.87E	A1210320	144	0.20	-0.21	-0.42	-0.45	

05080606.dat	2005/08/06	09:30	1.28N	88.68E	A1120389	150	0.06	-0.32	-0.30	-0.31	Note
05080609.dat	2005/08/06	08:30	1.17N	88.22E	A1120390	150	-0.02	-0.31	-0.26	-0.26	
05080612.dat	2005/08/06	11:30	1.31N	88.38E	A1120389	150	-0.30	-0.32	-0.26	-0.26	
05080615.dat	2005/08/06	14:30	1.17N	88.52E	A1120399	151	0.20	-0.36	-0.29	-0.29	
05080618.dat	2005/08/06	17:30	1.22N	88.42E	A1120401	151	0.12	-0.31	-0.38	-0.43	
05080621.dat	2005/08/06	20:30	1.20N	88.45E	A1120390	151	0.37	-0.23	-0.40	-0.42	
05080700.dat	2005/08/06	23:30	1.22N	88.43E	A1120176	151	0.17	-0.26	-0.23	-0.22	
05080703.dat	2005/08/07	02:30	1.22N	88.43E	A1120184	151	-0.19	-0.28	-0.06	-0.06	
05080706.dat	2005/08/07	05:30	1.12N	88.55E	A1120185	151	0.30	-0.31	-0.13	-0.12	
05080709.dat	2005/08/07	08:30	0.72N	89.10E	A1120182	151	0.29	-0.23	-0.08	-0.12	
05080712.dat	2005/08/07	11:30	0.32N	89.64E	A1120179	152	0.27	-0.25	-0.11	-0.12	
05080715.dat	2005/08/07	14:30	0.01N	90.05E	A1120178	152	0.44	-0.27	-0.25	-0.28	
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05080803.dat	2005/08/08	02:30	0.02N	90.05E	A1120398	152	0.38	-0.31	-0.25	-0.31	
05080806.dat	2005/08/08	05:30	0.00N	90.00E	A1120180	152	0.15	-0.29	-0.18	-0.15	
05080809.dat	2005/08/08	08:30	0.02N	90.05E	A1120388	152	0.64	-0.34	-0.24	-0.25	
05080812.dat	2005/08/08	11:30	0.57S	90.04E	A1120397	152	0.18	-0.29	-0.32	-0.31	
05080815.dat	2005/08/08	14:30	1.21S	90.00E	A1120395	153	0.31	-0.34	-0.30	-0.25	
05080818.dat	2005/08/08	17:30	1.55S	89.98E	A1120396	153	0.37	-0.35	-0.36	-0.33	
05080821.dat	2005/08/08	20:30	1.63S	90.03E	A1120386	153	0.25	-0.33	-0.30	-0.33	
05080900.dat	2005/08/08	23:30	1.63S	90.04E	A1120189	153	0.18	-0.28	-0.21	-0.20	
05080903.dat	2005/08/09	02:30	1.60S	90.08E	A1120159	153	0.29	-0.26	-0.20	-0.19	
05080906.dat	2005/08/09	05:30	1.66S	90.00E	A1120161	153	0.23	-0.29	-0.20	-0.22	
05080909.dat	2005/08/09	08:30	1.68S	90.05E	A1120162	153	0.11	-0.15	-0.23	-0.25	
05080912.dat	2005/08/09	11:30	1.67S	90.02E	A1120154	154	0.27	-0.73	-0.14	-0.13	
05080915.dat	2005/08/09	14:30	1.64S	90.07E	A1120158	154	0.28	-0.22	-0.14	-0.12	
05080918.dat	2005/08/09	17:30	1.75S	90.05E	A1120186	154	0.02	-0.28	-0.24	-0.23	
05080921.dat	2005/08/09	20:30	1.68S	89.99E	A1120175	154	0.24	-0.33	-0.07	-0.12	
05081000.dat	2005/08/09	23:30	1.66S	90.00E	A1120177	154	0.33	-0.30	-0.23	-0.23	
05081003.dat	2005/08/10	02:30	1.65S	89.91E	A1120171	154	0.10	-0.26	-0.24	-0.23	
05081006.dat	2005/08/10	05:30	1.87S	89.99E	A1120190	154	0.18	-0.25	-0.21	-0.14	
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05081015.dat	2005/08/10	14:30	2.99S	90.00E	A1120188	155	0.24	-0.29	-0.21	-0.22	
05081018.dat	2005/08/10	17:30	3.61S	89.99E	A1120173	155	0.25	-0.29	-0.16	-0.18	
05081021.dat	2005/08/10	20:30	3.96S	89.94E	A1120174	155	0.13	-0.80	-0.13	-0.19	
05081100.dat	2005/08/10	23:30	4.59S	89.98E	A1120166	155	1.03	-0.25	-0.14	-0.17	
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05081106.dat	2005/08/11	05:30	5.00S	90.57E	A1120136	155	0.06	-0.26	-0.23	-0.22	
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05081115.dat	2005/08/11	14:30	4.99S	92.00E	A1120169	156	0.17	-0.32	-0.21	-0.16	
05081118.dat	2005/08/11	17:30	5.00S	92.63E	A1120152	156	0.45	-0.25	-0.25	-0.26	
05081121.dat	2005/08/11	20:30	5.00S	93.00E	A1120150	156	0.27	-0.26	-0.24	-0.20	
05081200.dat	2005/08/11	23:30	5.00S	93.63E	A1120151	156	0.59	-0.29	-0.18	-0.17	
05081203.dat	2005/08/12	02:30	5.00S	94.00E	A1120160	156	0.13	-0.23	-0.16	-0.16	
05081206.dat	2005/08/12	05:30	5.00S	94.67E	A1120149	156	0.19	-0.27	-0.20	-0.19	
05081209.dat	2005/08/12	08:30	4.99S	94.98E	A1120157	156	0.28	-0.26	-0.06	-0.06	
05081212.dat	2005/08/12	11:30	5.08S	94.99E	A1120167	156	0.29	-0.27	-0.04	-0.05	
05081215.dat	2005/08/12	14:30	5.19S	94.96E	A1120164	157	0.18	-0.23	-0.03	-0.06	
05081218.dat	2005/08/12	17:30	5.07S	94.98E	A1120153	157	0.05	-0.27	-0.08	-0.06	
05081221.dat	2005/08/12	20:30	5.06S	94.94E	A1120163	157	0.38	-0.23	-0.09	-0.09	
05081300.dat	2005/08/12	23:30	5.05S	94.96E	A1120142	157	0.28	-0.28	-0.19	-0.20	
05081303.dat	2005/08/13	02:30	5.03S	94.97E	A1120146	157	0.27	-0.28	-0.16	-0.19	
05081306.dat	2005/08/13	05:30	4.98S	94.94E	A1120148	157	0.22	-1.13	-0.14	-0.13	
05081309.dat	2005/08/13	08:30	4.97S	94.99E	A1110124	158	0.27	-0.18	-0.13	-0.13	
05081312.dat	2005/08/13	11:30	5.08S	95.11E	A1120147	158	0.25	-0.39	-0.12	-0.13	
05081315.dat	2005/08/13	14:30	5.01S	95.00E	A1120145	158	0.58	-0.36	-0.13	-0.05	
05081318.dat	2005/08/13	17:30	4.97S	95.09E	A1110123	159	0.21	-0.19	-0.16	-0.22	Data acquisition: 470m
05081321.dat	2005/08/13	20:30	4.94S	95.00E	A1110127	159	0.30	-0.17	-0.16	-0.13	
05081400.dat	2005/08/13	23:30	4.94S	94.96E	A1120131	158	0.11	-0.25	-0.23	-0.18	
05081403.dat	2005/08/14	02:30	4.94S	94.92E	A1120130	158	0.22	-0.21	-0.21	-0.23	
05081406.dat	2005/08/14	05:30	4.97S	95.07E	A1120140	158	0.20	-0.27	-0.26	-0.17	
05081409.dat	2005/08/14	08:30	4.97S	95.00E	A1120137	158	0.32	-0.40	-0.08	-0.09	
05081412.dat	2005/08/14	11:30	5.20S	95.49E	A1120135	158	0.20	-0.28	-0.14	-0.08	
05081415.dat	2005/08/14	14:30	5.52S	96.09E	A1120141	159	0.44	-0.28	-0.19	-0.19	
05081418.dat	2005/08/14	17:30	5.85S	96.73E	A1120138	159	0.33	-0.46	-0.20	-0.19	
05081421.dat	2005/08/14	20:30	6.20S	97.34E	A1120165	159	0.21	-0.32	-0.13	-0.16	

Reference

K. Matsumoto, M. Hama, S. Sato, K. F. Matsumoto, and M. Matsumoto, 2002: CO₂ dissolved concentration from the ship in the tropical ocean. [JPS 48\(4\):4-11](#)

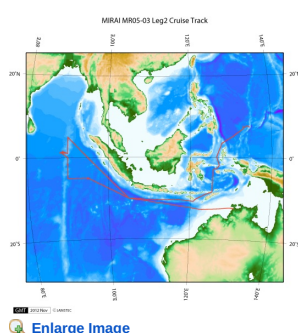
K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002:Radiosonde observation from the ship in the tropical region.[PDF:400kbyte]
JAMSTECR, Vol.45, 31-39.
K. Yoneyama, M.fujita, N.Sato, M.Fujiwara, Y.Inai, and F.Hasebe, 2008:Correction for Radiation Dry Bias Found in RS92 Radiosonde Data during the MISMO Field Experiment.[PDF:400kbyte] SOLA, Vol.4, 13-16.

Others

- Main processor: DigiCORAll. MW21(from 2004 Jul. to 2011 Mar.) [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



MR05-03 Leg2

Ship Name: MIRAI
Period: 2005-07-26 - 2005-08-24
Chief Scientist: Hideaki Hase (JAMSTEC)
Project Name: [Tropical Ocean Climate Study (TOCS)]

Update History

2016-04-07	An observation data was registered.
2014-07-11	An observation data was registered.
2014-06-28	An observation data was registered.
2014-06-13	An observation data was registered.
2012-11-25	An observation data was registered.

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Information of the Ships

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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 to a Dive Information

Dive ID:

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MIRAI MR05-03 Leg2 Radiosonde

Last Modified: 2016-04-07

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Cruise ID: [MR05-03 Leg2](#)

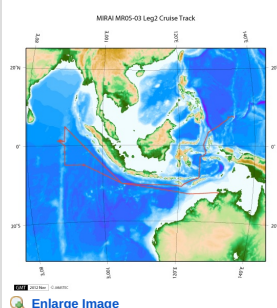
Radiosonde: Processed (DMO)-Corrected

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



MR05-03 Leg2

Ship Name: MIRAI

Period: 2005-07-26 - 2005-08-24

Chief Scientist: Hideaki Hase (JAMSTEC)

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

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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)
BMS

Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

MIRAI MR05-03 Leg2 Radiosonde

Last Modified: 2016-04-07

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Cruise ID: [MR05-03 Leg2](#)

Radiosonde: Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

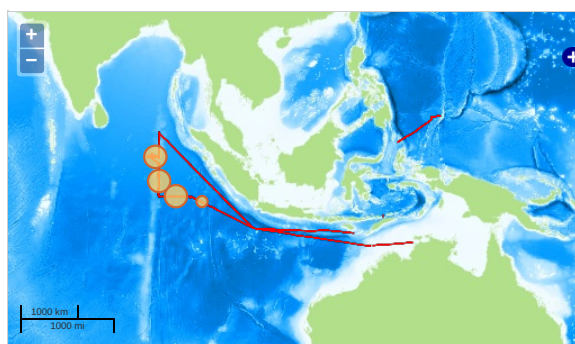
Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

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

Observation Map

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



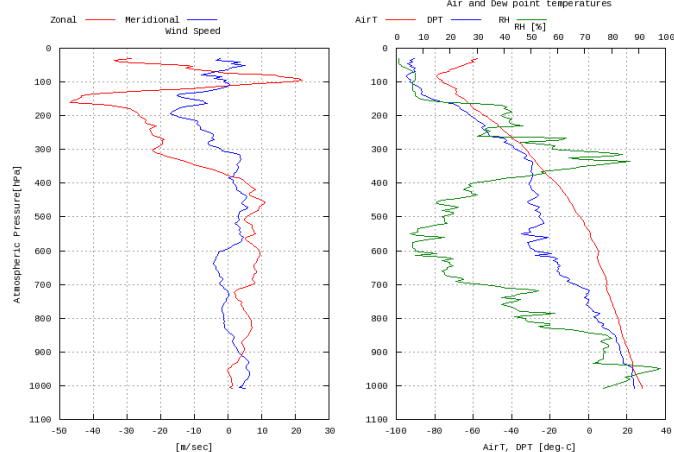
— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

Imagery reproduced from ...

Figures

05080500

MR05-03 Leg2: 05080500
Radiosonde



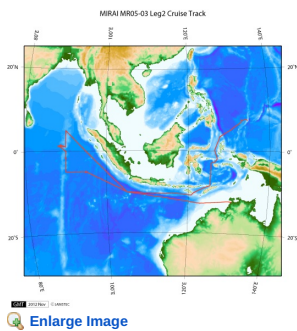
Data List

☐ File names

- ☐ 05080500.dat
- ☐ 05080503.dat
- ☐ 05080506.dat
- ☐ 05080509.dat
- ☐ 05080512.dat
- ☐ 05080515.dat
- ☐ 05080518.dat
- ☐ 05080521.dat
- ☐ 05080600.dat
- ☐ 05080603.dat
- ☐ 05080606.dat
- ☐ 05080609.dat
- ☐ 05080612.dat
- ☐ 05080615.dat

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<input type="checkbox"/>	05080703.dat
<input type="checkbox"/>	05080706.dat
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Related Information



MR05-03 Leg2

Ship Name: MIRAI

Period: 2005-07-26 - 2005-08-24

Chief Scientist: Hideaki Hase (JAMSTEC)

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

Update History

2016-04-07	An observation data was registerd.
2014-07-11	An observation data was registerd.
2014-06-28	An observation data was registerd.
2014-06-13	An observation data was registerd.
2012-11-25	An observation data was registerd.

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[Data Policy](#)

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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)
BMS

Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

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