MIRAI MR04-01 Radiosonde

Last Modified: 2016-04-07

ReadMe | Observation Data | Data Format

Cruise ID: MR04-01
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

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

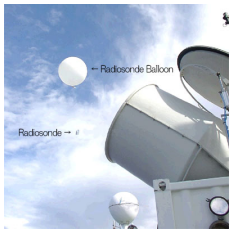
See **Terms and Conditions** about data citation.

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)**.

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 atomospheric 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	Atomospheric pressure [hPa]	Air temperature [deg-C]	Relative humidity [%]	
04030200.dat	2004/03/01	23:30	2.67N	137.29E	334403910	194	1.6	0.0	-1.0	
04030203.dat	2004/03/02	02:31	2.24N	137.84E	335103908	184	1.0	0.1	-2.0	
04030206.dat	2004/03/02	05:28	2.07N	138.06E	335103909	184	1.1	0.2	-2.0	
04030209.dat	2004/03/02	08:28	2.03N	138.31E	334403911	195	1.4	-0.2	-1.0	
04030212.dat	2004/03/02	11:29	1.98N	138.49E	335103906	184	1.2	0.0	-1.0	
04030215.dat	2004/03/02	14:27	1.99N	138.45E	334403904	195	1.3	-0.2	-1.0	
04030218.dat	2004/03/02	17:27	2.01N	138.42E	334403907	195	1.5	-0.3	2.0	
04030221.dat	2004/03/02	20:27	2.02N	138.41E	334403909	195	1.5	0.1	-1.0	
04030300.dat	2004/03/02	23:28	2.00N	138.50E	334403902	195	1.2	-0.1	0.0	
04030303.dat	2004/03/03	02:28	2.01N	138.50E	334403903	196	1.4	0.1	-1.0	
04030306.dat	2004/03/03	05:28	2.00N	138.51E	334403905	196	1.1	0.3	0.0	
04030309.dat	2004/03/03	08:27	2.00N	138.54E	334403906	196	1.4	-0.1	-3.0	
04030312.dat	2004/03/03	11:28	2.04N	138.51E	402700503	53	0.6	0.2	-1.0	
04030315.dat	2004/03/03	14:28	2.01N	138.50E	402700508	53	0.7	0.1	1.0	
04030318.dat	2004/03/03	17:27	2.02N	138.50E	402700315	53	0.6	-0.1	-1.0	
04030321.dat	2004/03/03	20:27	2.03N	138.49E	402700311	53	0.8	0.0	0.0	
04030400.dat	2004/03/03	23:28	2.01N	138.50E	402700307	53	0.9	-0.1	0.0	
04030403.dat	2004/03/04	02:29	1.99N	138.49E	402700303	54	0.9	0.0	-2.0	
04030406.dat	2004/03/04	05:29	1.98N	138.50E	402700415	54	0.4	0.3	0.0	

Data file	Launch time (UTC)	Launch station			Sensor information		Calibration result			Note
	Date/Time	latitude	Longitude	Serial No.	Age	Atomospheric pressure [hPa]	Air temperature [deg-C]	Relative humidity [%]		
04030409.dat	2004/03/04	08:29	1.97N	138.57E	402700411	54	0.5	0.0	0.0	
04030412.dat	2004/03/04	11:29	2.02N	138.50E	402700407	54	0.6	0.0	1.0	
04030415.dat	2004/03/04	14:29	2.01N	138.50E	402700409	54	0.5	0.0	0.0	
04030418.dat	2004/03/04	17:29	2.04N	138.52E	402700414	54	0.7	0.0	-1.0	
04030421.dat	2004/03/04	20:31	2.02N	138.51E	402700302	54	0.6	0.4	0.0	
04030500.dat	2004/03/04	23:29	2.02N	138.50E	402700306	54	0.8	0.0	0.0	
04030503.dat	2004/03/05	02:29	2.01N	138.50E	402700310	55	0.8	-0.4	2.0	
04030506.dat	2004/03/05	05:29	2.00N	138.50E	402700314	55	0.6	-0.7	-1.0	
04030509.dat	2004/03/05	08:29	2.01N	138.51E	402700502	55	1.2	0.3	0.0	
04030512.dat	2004/03/05	11:29	2.02N	138.51E	402700506	55	0.6	0.0	0.0	
04030515.dat	2004/03/05	14:29	2.00N	138.50E	402700511	55	0.6	0.0	-1.0	
04030518.dat	2004/03/05	17:29	2.03N	138.52E	402700515	55	0.7	0.0	-2.0	
04030521.dat	2004/03/05	20:29	2.02N	138.53E	402700305	55	0.9	0.0	-1.0	
04030600.dat	2004/03/05	23:29	2.02N	138.51E	402700301	55	0.9	-0.2	-2.0	
04030603.dat	2004/03/06	02:29	2.05N	138.22E	402700413	56	0.7	0.1	-1.0	
04030606.dat	2004/03/06	05:29	2.06N	138.15E	402700409	56	0.8	-0.1	-1.0	
04030609.dat	2004/03/06	08:29	2.00N	138.41E	402700405	56	0.4	0.1	3.0	
04030612.dat	2004/03/06	11:29	2.01N	138.52E	402700401	56	0.5	0.0	-1.0	
04030615.dat	2004/03/06	14:29	2.00N	138.50E	402700513	56	0.8	-0.1	0.0	
04030618.dat	2004/03/06	17:29	2.02N	138.52E	402700509	56	0.8	0.0	1.0	
04030621.dat	2004/03/06	20:29	1.99N	138.53E	402700504	56	0.0	0.2	-2.0	
04030700.dat	2004/03/06	23:29	1.99N	138.51E	402700500	56	0.5	-0.1	0.0	
04030703.dat	2004/03/07	02:29	2.06N	138.54E	402700406	57	0.8	0.2	0.0	
04030706.dat	2004/03/07	05:29	2.05N	138.56E	402700402	57	0.7	0.0	-2.0	
04030709.dat	2004/03/07	08:29	2.03N	138.50E	402700514	57	0.5	0.0	-1.0	
04030712.dat	2004/03/07	11:29	2.02N	138.50E	402700410	57	0.7	-0.2	1.0	
04030715.dat	2004/03/07	14:29	2.02N	138.50E	402700510	57	0.6	0.0	-1.0	
04030718.dat	2004/03/07	17:29	2.03N	138.52E	402700309	57	0.9	0.0	-1.0	
04030721.dat	2004/03/07	20:29	2.04N	138.52E	402700614	57	0.5	0.0	-2.0	
04030800.dat	2004/03/07	23:29	2.04N	138.51E	402700313	57	1.1	-0.1	-1.0	
04030803.dat	2004/03/08	02:29	2.06N	138.42E	402700505	58	0.7	0.2	-1.0	
04030806.dat	2004/03/08	05:29	2.07N	138.47E	402700501	58	0.2	0.0	-1.0	
04030809.dat	2004/03/08	08:29	1.93N	138.51E	402714602	58	0.7	0.1	5.0	
04030812.dat	2004/03/08	11:29	2.08N	138.51E	402714603	58	0.5	-0.1	-1.0	
04030815.dat	2004/03/08	14:29	2.01N	138.50E	402714607	58	0.7	0.0	0.0	
>04030818.dat	2004/03/08	17:29	2.02N	138.50E	402714601	58	0.5	0.0	-1.0	
04030821.dat	2004/03/08	20:59	2.01N	138.50E	402714611	58	0.6	0.0	1.0	
04030900.dat	2004/03/08	23:29	2.01N	138.50E	402714610	58	0.6	0.0	-1.0	
04030903.dat	2004/03/09	02:29	2.02N	138.51E	402714614	59	0.4	0.2	1.0	
04030906.dat	2004/03/09	05:49	2.01N	138.49E	350501307	89	0.7	0.0	1.0	
04030909.dat	2004/03/09	08:29	2.01N	138.49E	350501310	89	0.9	0.1	1.0	
04030912.dat	2004/03/09	11:29	2.01N	138.48E	350501311	89	0.9	0.2	1.0	
04030915.dat	2004/03/09	14:29	2.01N	138.50E	350501201	89	0.6	0.0	-2.0	
04030918.dat	2004/03/09	17:29	2.02N	138.51E	350501203	89	0.4	-0.1	2.0	
04030921.dat	2004/03/09	20:29	2.05N	138.18E	350501202	89	0.4	0.4	-2.0	
04031000.dat	2004/03/09	23:29	2.05N	138.23E	350501314	89	0.7	-0.3	0.0	
04031003.dat	2004/03/10	02:29	2.07N	138.40E	350501315	90	0.5	0.3	-2.0	
04031006.dat	2004/03/10	05:30	2.03N	138.31E	350503708	90	1.0	0.1	-2.0	
04031009.dat	2004/03/10	08:29	2.14N	138.11E	350501204	90	0.5	0.2	0.0	
04031012.dat	2004/03/10	11:29	2.15N	138.31E	350501312	90	0.5	0.0	-2.0	
04031015.dat	2004/03/10	14:29	2.07N	138.53E	350501308	90	0.4	0.1	-1.0	
04031018.dat	2004/03/10	17:29	2.03N	138.51E	350503703	90	0.8	-0.1	-3.0	
04031021.dat	2004/03/10	20:29	2.04N	138.51E	350506513	90	0.4	-0.1	-2.0	
04031100.dat	2004/03/10	23:29	2.03N	138.51E	350501303	90	1.0	-0.3	0.0	
04031103.dat	2004/03/11	02:29	2.01N	138.50E	402611315	62	0.3	0.3	-2.0	
04031106.dat	2004/03/11	05:30	2.02N	138.50E	350501309	91	0.4	0.0	-3.0	
04031109.dat	2004/03/11	08:29	1.99N	138.51E	350506506	91	0.4	0.0	-1.0	
04031112.dat	2004/03/11	11:29	2.00N	138.48E	350506507	91	1.0	0.1	0.0	
04031115.dat	2004/03/11	14:29	2.01N	138.49E	350501306	91	0.6	0.0	2.0	
04031118.dat	2004/03/11	17:29	2.01N	138.48E	402611314	62	0.7	0.0	-1.0	
04031121.dat	2004/03/11	20:29	2.01N	138.47E	350501313	91	0.4	0.0	-1.0	
04031200.dat	2004/03/11	23:29	2.00N	138.46E	402610802	62	0.7	0.0	1.0	
04031203.dat	2004/03/12	02:29	2.02N	138.49E	402611313	63	0.7	0.1	-1.0	
04031206.dat	2004/03/12	05:29	2.03N	138.48E	402610800	63	0.5	0.1	0.0	
04031209.dat	2004/03/12	08:29	2.02N	138.49E	402611312	63	0.8	0.1	-1.0	
04031212.dat	2004/03/12	11:30	2.02N	138.48E	402610811	63	0.2	0.1	-2.0	
04031215.dat	2004/03/12	14:25	2.02N	138.49E	402610806	63	0.8	0.3	0.0	
04031218.dat	2004/03/12	18:00	2.03N	138.49E	402610803	63	0.3	-0.1	0.0	
04031221.dat	2004/03/12	20:29	2.04N	138.46E	402611900	63	0.8	0.6	0.0	
04031300.dat	2004/03/12	23:28	2.04N	138.47E	402612112	63	0.6	-0.3	-4.0	
04031303.dat	2004/03/13	02:28	2.05N	138.23E	402611903	64	0.4	0.2	-1.0	
04031306.dat	2004/03/13	05:29	2.11N	138.06E	402611907	64	1.0	0.0	0.0	
04031309.dat	2004/03/13	08:29	2.14N	138.03E	402611908	64	0.8	0.1	1.0	

Data file	Launch time (UTC)		Launch station		Sensor information		Calibration result			Note
	Date	Time	Latitude	Longitude	Serial No.	Age	Atomospheric pressure [hPa]	Air temperature [deg-C]	Relative humidity [%]	
04031312.dat	2004/03/13	11:29	2.17N	138.05E	402611905	64	0.7	0.1	-2.0	
04031315.dat	2004/03/13	14:29	2.12N	138.05E	402611906	64	1.0	0.1	-2.0	
04031318.dat	2004/03/13	17:29	2.12N	138.05E	402611904	64	1.0	0.2	-1.0	
04031321.dat	2004/03/13	20:30	2.14N	137.99E	402611910	64	0.7	0.6	-1.0	
04031400.dat	2004/03/13	23:29	2.12N	138.04E	402611911	64	1.1	0.0	0.0	
04031403.dat	2004/03/14	02:29	2.12N	138.01E	402612314	65	0.8	0.2	-1.0	
04031406.dat	2004/03/14	05:29	2.12N	138.02E	402612111	65	0.7	0.0	0.0	
04031409.dat	2004/03/14	08:29	2.12N	138.03E	402612115	65	0.7	0.0	0.0	
04031412.dat	2004/03/14	11:29	2.12N	138.03E	402612310	65	0.7	0.1	0.0	
04031415.dat	2004/03/14	14:29	2.12N	138.05E	402612108	65	0.6	0.1	3.0	
04031418.dat	2004/03/14	17:29	2.14N	138.02E	402612103	65	1.0	0.2	-1.0	
04031421.dat	2004/03/14	20:29	2.13N	138.00E	402612106	65	0.5	0.1	-2.0	
04031500.dat	2004/03/14	23:49	2.11N	138.06E	402612306	65	0.8	0.0	-1.0	
04031506.dat	2004/03/15	05:29	3.13N	138.17E	402612311	66	0.6	0.3	-4.0	
04031512.dat	2004/03/15	11:29	4.64N	138.38E	402612305	66	0.6	0.2	-1.0	
04031518.dat	2004/03/15	17:29	6.12N	138.52E	402612302	66	1.1	-0.1	-2.0	
04031600.dat	2004/03/15	23:30	7.53N	138.65E	402612315	66	0.5	0.1	0.0	
04031606.dat	2004/03/16	05:29	8.83N	138.80E	402611902	67	0.7	0.1	1.0	
04031612.dat	2004/03/16	11:49	10.12N	138.83E	402611901	67	0.5	-0.1	-2.0	
04031618.dat	2004/03/16	17:29	11.30N	138.90E	402612110	67	0.7	0.2	-1.0	
04031700.dat	2004/03/16	23:48	12.66N	138.87E	402612105	67	0.8	0.0	0.0	

Reference

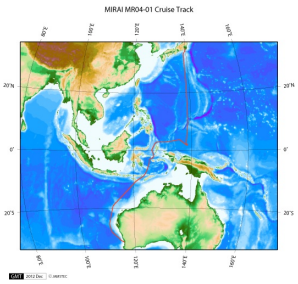
K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002:Radiosonde observation from the ship in the tropical region.**[PDF:400kbyte]** JAMSTECR, Vol.45, 31-39.

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

MR04-01
Ship Name: MIRAI
Period: 2004-02-22 - 2004-03-22
Chief Scientist: Kunio Yoneyama (JAMSTEC)
Project Name: [MJO Research]

Update History

2016-04-07	An observation data was registerd.
2014-07-11	An observation data was registerd.
2014-06-13	An observation data was registerd.
2012-12-15	An observation data was registerd.
2012-11-25	An observation data was registerd.

MIRAI MR04-01 Radiosonde

Last Modified: 2016-04-07

ReadMe | Observation Data | Data Format

Cruise ID: MR04-01

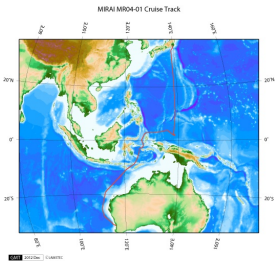
Radiosonde: Processed (DMO)-Corrected

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



Enlarge Image

MR04-01
Ship Name: MIRAI
Period: 2004-02-22 - 2004-03-22
Chief Scientist: Kunio Yoneyama (JAMSTEC)
Project Name: [MJO Research]

Update History

2016-04-07	An observation data was registerd.
2014-07-11	An observation data was registerd.
2014-06-13	An observation data was registerd.
2012-12-15	An observation data was registerd.
2012-11-25	An observation data was registerd.

MIRAI MR04-01 Radiosonde

Last Modified: 2016-04-07

ReadMe | Observation Data | Data Format

Cruise ID: MR04-01

Radiosonde: Processed (DMO)-Corrected

Data Policy: JAMSTEC

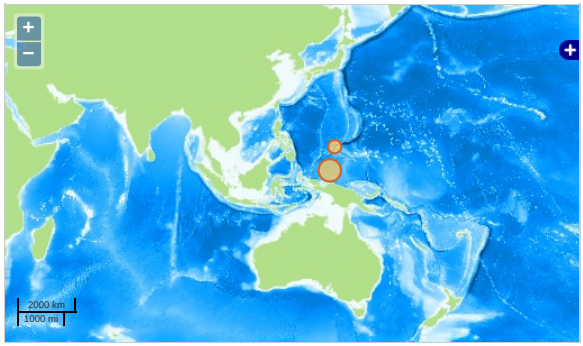
Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

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

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

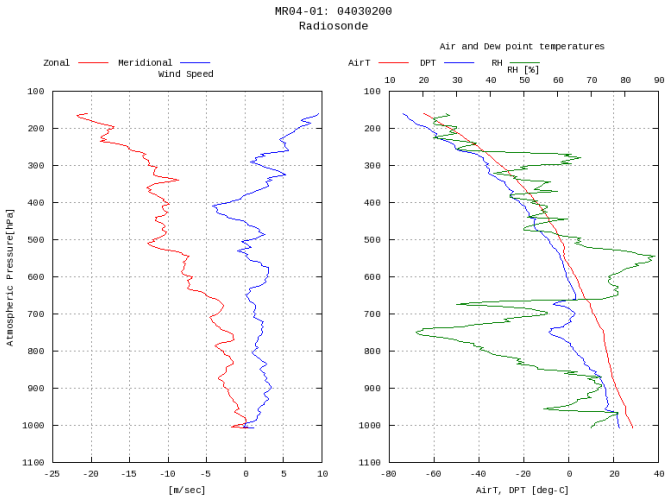


Imagery reproduced from ...

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

Figures

04030200



Data List

Add to Basket

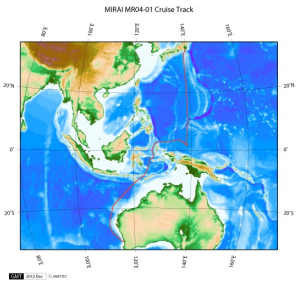
File names
04030200.dat
04030203.dat
04030206.dat
04030209.dat
04030212.dat
04030215.dat
04030218.dat
04030221.dat
04030300.dat
04030303.dat
04030306.dat
04030309.dat
04030312.dat
04030315.dat

File names

04030318.dat
04030321.dat
04030400.dat
04030403.dat
04030406.dat
04030409.dat
04030412.dat
04030415.dat
04030418.dat
04030421.dat
04030500.dat
04030503.dat
04030506.dat
04030509.dat
04030512.dat
04030515.dat
04030518.dat
04030521.dat
04030600.dat
04030603.dat
04030606.dat
04030609.dat
04030612.dat
04030615.dat
04030618.dat
04030621.dat
04030700.dat
04030703.dat
04030706.dat
04030709.dat
04030712.dat
04030715.dat
04030718.dat
04030721.dat
04030800.dat
04030803.dat
04030806.dat
04030809.dat
04030812.dat
04030815.dat
04030818.dat
04030821.dat
04030900.dat
04030903.dat
04030906.dat
04030909.dat
04030912.dat
04030915.dat
04030918.dat
04030921.dat
04031000.dat
04031003.dat
04031006.dat
04031009.dat
04031012.dat
04031015.dat
04031018.dat
04031021.dat
04031100.dat
04031103.dat
04031106.dat
04031109.dat
04031112.dat
04031115.dat
04031118.dat
04031121.dat
04031200.dat
04031203.dat
04031206.dat
04031209.dat
04031212.dat
04031215.dat
04031218.dat
04031221.dat
04031300.dat
04031303.dat
04031306.dat

File names
04031309.dat
04031312.dat
04031315.dat
04031318.dat
04031321.dat
04031400.dat
04031403.dat
04031406.dat
04031409.dat
04031412.dat
04031415.dat
04031418.dat
04031421.dat
04031500.dat
04031506.dat
04031512.dat
04031518.dat
04031600.dat
04031606.dat
04031612.dat
04031618.dat
04031700.dat

Related Information



Enlarge Image

MR04-01
Ship Name: MIRAI
Period: 2004-02-22 - 2004-03-22
Chief Scientist: Kunio Yoneyama (JAMSTEC)
Project Name: [MJO Research]

Update History

2016-04-07	An observation data was registerd.
2014-07-11	An observation data was registerd.
2014-06-13	An observation data was registerd.
2012-12-15	An observation data was registerd.
2012-11-25	An observation data was registerd.