MIRAI MR03-K03 Leg2 Radiosonde

Last Modified: 2016-04-07

ReadMe | Observation Data | Data Format

Cruise ID: MR03-K03 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/MR03-K03_leg1-2_all.pdf

For Using Data

Principal Investigator
Data Management Office

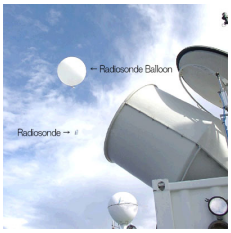
JAMSTEC / BPPT joint cruise in the Indonesian waters.

Use Constraints
See Terms and Conditions about constrain of use.

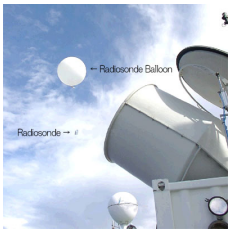
Data Citation
See Terms and Conditions about data citation.

Instrument

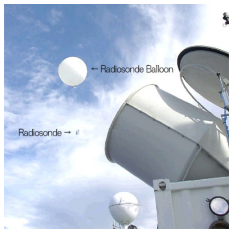
Instrument:
Radiosonde (MR11-03 - MR15-E01 Leg3)



Instrument:
Radiosonde (MR04-03 Leg1 - MR11-02)



Instrument:
Radiosonde (- MR04-02)



Overview

Correction method

· 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 [%]	
03070906.dat	2003/07/09	05:29	4.26N	92.85E	239702407	284	1.4	0.3	1.0	
03071000.dat	2003/07/09	23:29	3.99N	90.01E	214709601	459	0.8	0.0	3.0	
03071006.dat	2003/07/10	05:30	2.98N	90.00E	132208706	703	1.1	0.3	3.0	
03071012.dat	2003/07/10	11:29	1.99N	90.01E	214709608	460	1.7	0.0	3.0	
03071018.dat	2003/07/10	17:39	0.99N	90.01E	239702403	285	1.7	0.4	0.0	
03071100.dat	2003/07/10	23:30	0.01N	90.07E	239702411	285	2.7	0.3	1.0	
03071106.dat	2003/07/11	05:29	0.00N	90.11E	214709604	461	0.5	0.2	1.0	
03071112.dat	2003/07/11	11:29	0.76S	90.02E	214709615	461	0.9	-0.2	2.0	
03071118.dat	2003/07/11	17:29	1.67S	90.03E	132208710	704	1.2	-0.4	2.0	
03071200.dat	2003/07/11	23:29	1.75S	90.05E	214709403	461	0.7	-0.1	0.0	
03071203.dat	2003/07/12	02:29	1.69S	90.01E	132208711	705	0.8	0.0	3.0	
03071206.dat	2003/07/12	05:29	1.67S	90.02E	214709606	462	2.4	0.2	1.0	
03071209.dat	2003/07/12	08:29	1.58S	90.09E	214709614	462	0.6	0.2	1.0	
03071212.dat	2003/07/12	11:29	1.64S	90.00E	214709402	462	1.3	-0.2	1.0	
03071215.dat	2003/07/12	14:29	1.60S	90.03E	214709406	462	0.7	-0.5	2.0	
03071218.dat	2003/07/12	17:39	1.59S	90.04E	214709602	462	0.8	0.4	-2.0	
03071221.dat	2003/07/12	20:29	1.59S	90.07E	214709600	462	0.1	-0.4	0.0	
03071300.dat	2003/07/12	23:29	1.60S	90.09E	214709603	462	0.0	-0.1	-1.0	
03071303.dat	2003/07/13	02:40	1.63S	90.10E	214709607	463	0.8	-0.4	0.0	
03071306.dat	2003/07/13	05:29	1.94S	90.02E	239702515	288	1.0	-0.5	0.0	
03071309.dat	2003/07/13	08:29	1.99S	89.99E	304370251	173	0.3	-0.6	-1.0	

03071309.dat	2003/07/13	08:29	1.99S	89.99E	304370231	173	0.3	-0.6	-1.0	
03071312.dat	2003/07/13	11:29	1.99S	90.01E	304370222	173	0.5	-0.3	0.0	
03071315.dat	2003/07/13	14:29	2.60S	90.01E	304370217	173	0.7	-0.4	-1.0	
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03071412.dat	2003/07/14	11:29	4.99S	90.99E	304370244	174	0.3	-0.6	0.0	
03071418.dat	2003/07/14	17:30	4.99S	91.99E	304370252	174	0.4	-0.4	0.0	
03071500.dat	2003/07/14	23:29	4.99S	92.99E	304370136	174	0.3	-0.5	0.0	
03071503.dat	2003/07/15	02:29	4.99S	93.54E	304370232	175	-0.2	-0.1	-1.0	
03071506.dat	2003/07/15	05:30	5.00S	93.98E	304370239	175	0.6	-0.6	-1.0	
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03071512.dat	2003/07/15	11:29	4.95S	94.97E	304370218	175	0.6	-0.3	-1.0	
03071515.dat	2003/07/15	14:30	4.92S	94.93E	304370225	175	0.6	-0.7	0.0	
03071518.dat	2003/07/15	17:29	4.88S	94.84E	304370131	175	0.6	-0.3	0.0	
03071521.dat	2003/07/15	20:29	4.91S	94.87E	304370245	175	0.6	-0.6	0.0	
03071600.dat	2003/07/15	23:49	4.95S	94.88E	304370130	175	0.7	0.2	-1.0	
03071603.dat	2003/07/16	02:29	4.95S	94.88E	304370137	176	0.3	-0.3	-1.0	
03071606.dat	2003/07/16	05:40	4.93S	94.89E	304370234	176	1.0	-0.5	-1.0	
03071609.dat	2003/07/16	08:29	4.92S	94.86E	304370227	176	0.6	-0.7	0.0	
03071612.dat	2003/07/16	11:29	4.90S	94.76E	304370220	176	0.4	-0.3	-1.0	
03071615.dat	2003/07/16	14:29	4.89S	94.65E	304370229	176	0.3	-0.7	-1.0	
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03071700.dat	2003/07/16	23:29	4.93S	94.90E	304370242	176	0.8	-0.7	-1.0	
03071703.dat	2003/07/17	02:29	4.93S	94.88E	304370141	177	0.6	-0.4	0.0	
03071706.dat	2003/07/17	05:29	5.13S	95.39E	304370121	177	0.1	-0.3	0.0	
03071712.dat	2003/07/17	11:29	5.59S	96.65E	304370134	177	1.1	-0.3	-1.0	
03071718.dat	2003/07/17	17:29	6.08S	98.02E	304370132	177	0.6	-0.1	0.0	
03071800.dat	2003/07/17	23:29	6.59S	99.40E	304370138	177	0.1	-0.4	0.0	
03071806.dat	2003/07/18	05:29	7.10S	100.74E	304370133	178	0.5	-0.2	-1.0	
03071812.dat	2003/07/18	11:29	7.57S	102.01E	304370140	178	0.2	-0.2	0.0	

Reference

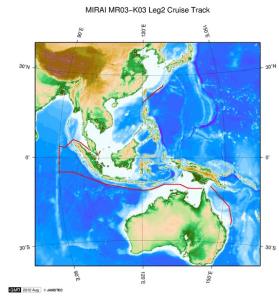
K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002:Radiosonde observation from the ship in the tropical region.**[PDF:400kbyte]** JAMSTECR, Vol.45, 31-39.

Others

· Main processor: DigiCORA. MW11(before 2004 Jul.) [VAISALA, Finland]
· Radiosonde Sensor: RS92-SGP, RS80-15GH, RS80-15G [VAISALA, Finland]
· Launcher Location: 22m (from base line)

Note

Related Information



Enlarge Image

MR03-K03 Leg2
Ship Name: MIRAI
Period: 2003-07-01 - 2003-07-30
Chief Scientist: Shinya Minato (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.
2014-06-13	An observation data was registerd.
2012-12-25	An observation data was registerd.

MIRAI MR03-K03 Leg2 Radiosonde

Last Modified: 2016-04-07

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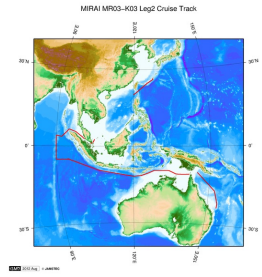
Radiosonde: Processed (DMO)-Corrected

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



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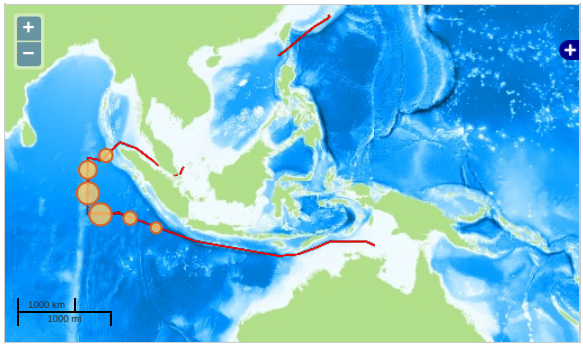
Science Keywords:

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.

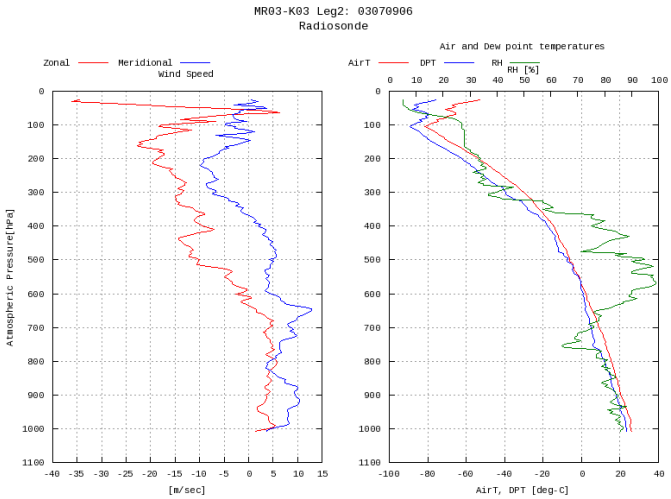


Imagery reproduced from ...

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

Figures

03070906



Data List

Add to Basket

File names
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03071000.dat
03071006.dat
03071012.dat
03071018.dat
03071100.dat
03071106.dat
03071112.dat
03071118.dat
03071200.dat
03071203.dat
03071206.dat
03071209.dat
03071212.dat

File name
03071218.dat
03071221.dat
03071300.dat
03071303.dat
03071306.dat
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03071315.dat
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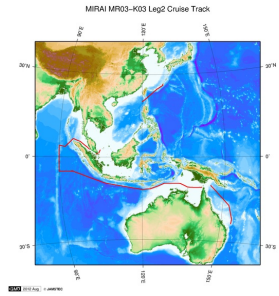

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