

MIRAI MR14-04 Leg1 Radiosonde

Last Modified: 2016-07-21

ReadMe Observation Data Data Format

Cruise ID: [MR14-04 Leg1](#)

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/MR14-04_leg1-2_all.pdf

For Using Data

Principal Investigator

Data Management Office

Use Constraints

See [Terms and Conditions](#) about constrain of use.

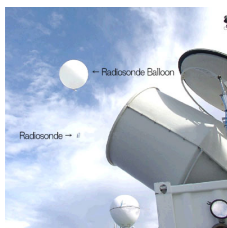
Data Citation

See [Terms and Conditions](#) about data citation.

Instrument

Instrument:

Radiosonde (MR11-03 - MR15-E01
Leg3)



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 humidity1[%]	Relative humidity2[%]	
14070915.dat	2014/07/09	14:30	33.10N	141.91E	J4213220	268	0.00	-0.11	-0.45	-0.44	
14071112.dat	2014/07/11	11:30	30.34N	149.31E	J4213217	270	-0.26	-0.18	-0.31	-0.36	
14071118.dat	2014/07/11	17:30	31.44N	149.33E	J4113926	277	-0.96	-0.19	-0.33	-0.29	Drizzle
14071200.dat	2014/07/11	23:30	32.57N	149.34E	J4213251	270	0.48	-0.16	-0.37	-0.38	Rain
14071206.dat	2014/07/12	05:30	33.69N	149.32E	J4213194	270	-0.11	-0.23	-0.42	-0.41	
14071210.dat	2014/07/12	09:30	34.09N	149.23E	J4113922	277	0.65	-0.22	-0.05	-0.10	
14071212.dat	2014/07/12	11:30	34.41N	149.08E	J4113924	278	-0.21	-0.18	-0.03	-0.04	
14071214.dat	2014/07/12	13:30	34.72N	148.92E	J4113906	278	0.66	-0.19	0.03	-0.03	
14071215.dat	2014/07/12	14:30	35.01N	148.73E	J4113918	278	0.93	-0.24	-0.05	-0.07	
14071217.dat	2014/07/12	16:30	35.33N	148.51E	J4113916	278	0.88	-0.22	-0.12	-0.09	
14071219.dat	2014/07/12	18:30	35.65N	148.31E	J4113914	278	1.60	-0.22	-0.02	-0.06	
14071223.dat	2014/07/12	22:30	36.08N	148.08E	J4113928	278	0.54	-0.11	-0.10	-0.10	
14071302.dat	2014/07/13	01:30	36.34N	147.87E	J4113921	278	0.33	-0.18	-0.05	-0.16	
14071304.dat	2014/07/13	03:30	36.64N	147.68E	J4113919	278	0.64	-0.19	0.02	-0.01	
14071306.dat	2014/07/13	05:30	37.02N	147.44E	J4113915	278	0.75	-0.24	-0.05	-0.06	
14071312.dat	2014/07/13	11:30	38.00N	146.79E	J4113936	278	0.63	-0.23	-0.11	-0.18	
14071318.dat	2014/07/13	17:30	38.75N	146.30E	J4113923	279	-0.66	-0.19	-0.09	-0.07	Drizzle
14071400.dat	2014/07/13	23:30	39.16N	146.03E	K1743730	80	-0.48	-0.19	0.11	-0.16	

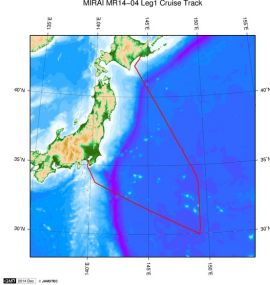
14071406.dat	2014/07/14 05:30	40.16N	145.32E	K1743725	180	-0.65	-0.14	-0.16	-0.20		
Reference Data file	Launch time		Launch station		Sensor information		Calibration result				Note
	Date	Time	Latitude	Longitude	Serial No.	Age	Atmospheric pressure[hPa]	Air temperature[deg-C]	Relative humidity1[%]	Relative humidity2[%]	
K. Yoneyama, M. Hanyu, S. Sueyoshi, F. Yoshiura, and M. Katsumata, 2016 JAMSTECR, Vol.45, 31-39.							Atmospheric observation from the ship in the tropical region.			[PDF:100kbyte]	

Others

- Main processor: DigiCORAll, 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



MR14-04 Leg1

Ship Name: MIRAI

Period: 2014-07-08 - 2014-07-15

Chief Scientist: Hiroshi Uchida (JAMSTEC)

Project Name: [POST-WOCE Hydrography]

Proposal ▶ Collaborative study on the zonal distribution of dissolved organic carbon in the far North Pacific

Title:

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Update History	
2016-07-21	An observation data was registered.

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HAKUHO MARU

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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:

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Cruise ID: [MR14-04 Leg1](#)

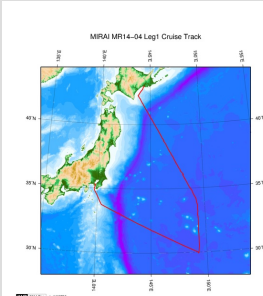
Radiosonde: Processed (DMO)-Corrected

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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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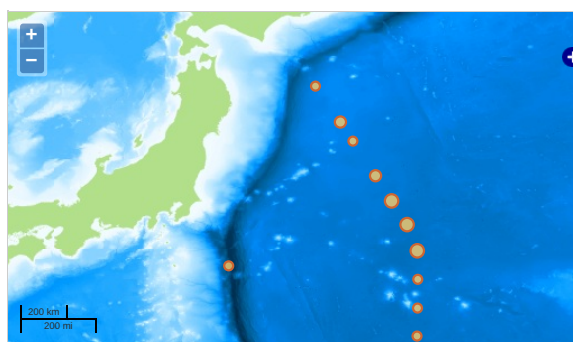
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Observation Map

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



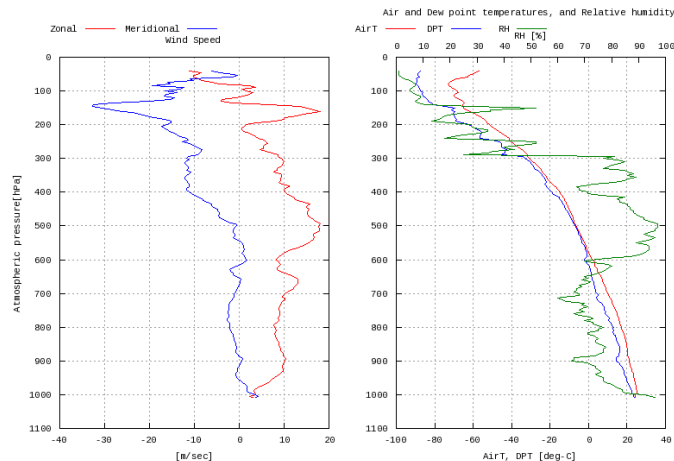
Imagery reproduced from ...

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

Figures

14070915

MR14-04 Leg1: 14070915
Radiosonde



Data List

☐ File names

☐ 14070915.dat

☐ 14071112.dat

☐ 14071118.dat

☐ 14071200.dat

☐ 14071206.dat

☐ 14071210.dat

☐ 14071212.dat

☐ 14071214.dat

☐ 14071215.dat

☐ 14071217.dat

☐ 14071219.dat

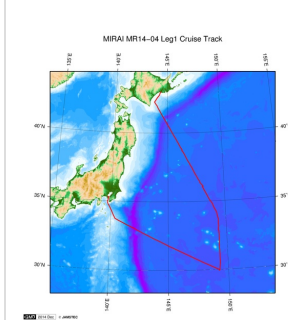
☐ 14071223.dat

☐ 14071302.dat

☐ 14071304.dat

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<input type="checkbox"/>	14071300.dat
<input type="checkbox"/>	14071312.dat
<input type="checkbox"/>	14071318.dat
<input type="checkbox"/>	14071400.dat
<input type="checkbox"/>	14071406.dat

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