

MIRAI MR99-K05 Leg2 Radiosonde

Last Modified: 2016-10-17

[ReadMe](#) [Observation Data](#) [Data Format](#)

Cruise ID: [MR99-K05 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

For Using Data

Principal Investigator

Data Management Office

Use Constraints

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

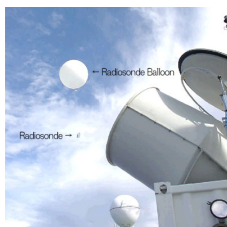
Data Citation

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

Instrument

Instrument:

Radiosonde (- 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 [%]	
99091520.dat	1999/09/15	19:52	73.93N	159.52W	913207604	170	1.3	0.4	5.0	
99091623.dat	1999/09/16	22:44	74.46N	161.02W	913103601	172	1.2	0.2	4.0	
99092005.dat	1999/09/20	04:51	72.07N	154.54W	913207303	175	0.9	-0.1	2.0	
99092100.dat	1999/09/20	23:31	72.26N	150.76W	913207608	175	0.9	0.0	1.0	
99092117.dat	1999/09/21	16:22	72.50N	151.51W	913207613	176	0.8	-0.2	0.0	
99093006.dat	1999/09/30	06:12	42.81N	150.49E	913207614	185	1.2	0.0	-2.0	
99100100.dat	1999/09/30	23:44	41.57N	146.58E	913207603	185	0.3	0.0	-3.0	

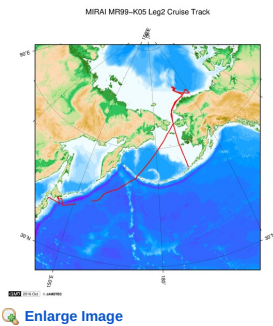
Reference

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)

Related Information



MR99-K05 Leg2

Ship Name: MIRAI

Period: 1999-09-11 - 1999-10-05

Chief Scientist: Takatoshi Takizawa (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Update History

2016-10-17	An observation data was registered.
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Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:



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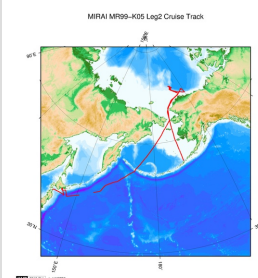
Radiosonde: Processed (DMO)-Corrected

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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

Related Information



[Enlarge Image](#)

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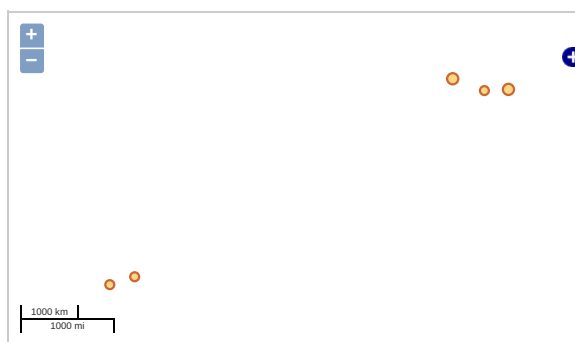
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Observation Map

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



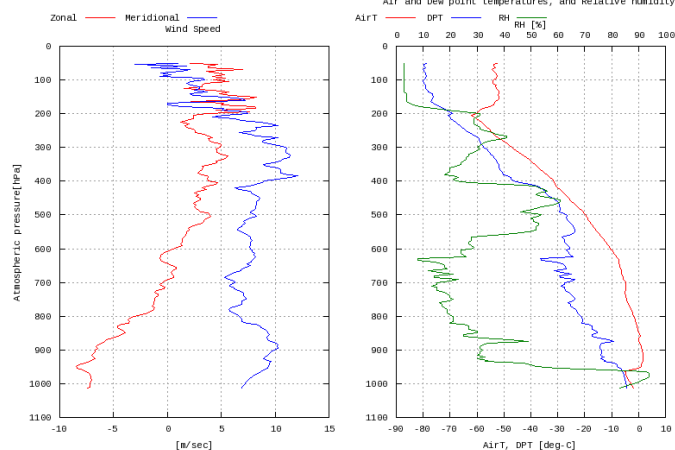
— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

Imagery reproduced from ...

Figures

99091520

MR99-K05 Leg2: 99091520
Radiosonde



Data List

☐ File names

☐ 99091520.dat

☐ 99091623.dat

☐ 99092005.dat

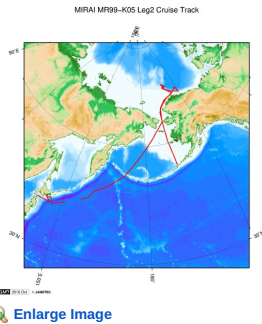
☐ 99092100.dat

☐ 99092117.dat

☐ 99093006.dat

☐ 99100100.dat

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