

MIRAI MR99-K01 Radiosonde

Last Modified: 2014-07-11

ReadMe Observation Data Data Format

Cruise ID: **MR99-K01**

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/MR99-K01_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

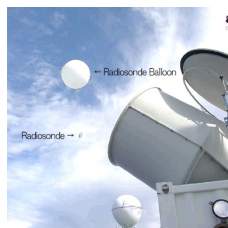
Instrument:

Radiosonde (MR11-03 - MR15-E01
Leg3)



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 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 [%]	
99021512.dat	1999/02/15	11:30	7.09N	146.66E	816106504	302	0.2	0.4	-2.0	
99021600.dat	1999/02/15	23:30	4.93N	147.02E	852105110	50	0.9	0.3	-4.0	
99021612.dat	1999/02/16	11:27	4.87N	146.99E	852105109	51	0.0	0.4	-2.0	
99021700.dat	1999/02/16	23:30	4.84N	147.01E	852105112	51	1.0	0.3	-6.0	
99021712.dat	1999/02/17	11:30	4.28N	147.00E	852105113	52	0.5	0.3	-4.0	
99021800.dat	1999/02/17	23:28	2.18N	146.97E	852105111	52	0.3	0.3	-3.0	
99021812.dat	1999/02/18	11:29	2.07N	146.90E	852702705	54	0.0	0.4	-1.0	
99021900.dat	1999/02/18	23:30	2.09N	146.92E	852702715	54	-0.3	0.2	-1.0	
99021912.dat	1999/02/19	11:29	1.14N	147.09E	852702504	55	0.8	0.3	-4.0	
99022000.dat	1999/02/19	23:34	0.09N	146.82E	852702710	55	-0.3	0.2	-6.0	
99022012.dat	1999/02/20	11:28	0.12N	146.88E	852702700	56	0.0	0.2	-4.0	
99022112.dat	1999/02/21	11:38	0.02S	146.91E	852702809	57	0.7	0.1	-2.0	
99022200.dat	1999/02/21	23:30	0.01S	147.08E	852702804	57	0.1	0.2	-5.0	
99022212.dat	1999/02/22	11:41	1.23N	148.05E	852702509	58	-0.2	0.3	-6.0	
99022300.dat	1999/02/22	23:51	3.37N	150.21E	852105010	57	0.4	0.2	-3.0	
99022312.dat	1999/02/23	11:26	5.55N	152.33E	852105006	58	0.4	0.2	-1.0	
99022400.dat	1999/02/23	23:32	7.66N	154.46E	852105009	58	1.0	0.0	-2.0	
99022412.dat	1999/02/24	11:27	7.86N	156.17E	852105005	59	1.4	0.2	-2.0	
99022500.dat	1999/02/24	23:30	7.96N	155.98E	852105007	59	0.7	0.3	-3.0	
99022512.dat	1999/02/25	11:27	8.00N	156.07E	852105003	60	0.5	0.1	-3.0	
99022600.dat	1999/02/25	23:30	7.99N	155.98E	852105002	60	1.0	0.4	-2.0	
99022612.dat	1999/02/26	11:31	6.30N	155.96E	852105001	61	0.7	0.3	-2.0	
99022700.dat	1999/02/26	23:30	4.98N	155.91E	852105115	61	0.8	0.3	-2.0	

99022712.dat	1999/02/27	11:28	5.05N	155.90E	852105114	62	0.2	0.2	-3.0	
99022800.dat	1999/02/27	23:28	5.05N	156.01E	852702401	63	0.4	0.3	-3.0	
99022812.dat	1999/02/28	11:45	3.50N	156.05E	852702815	64	0.9	0.3	-3.0	
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99030412.dat	1999/03/04	11:30	1.67S	155.87E	852702802	68	1.3	0.2	-2.0	
99030500.dat	1999/03/04	23:26	2.02S	155.94E	852702813	68	0.8	0.3	0.0	
99030512.dat	1999/03/05	11:27	1.98S	155.99E	852702703	69	0.1	0.5	-2.0	
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99030800.dat	1999/03/07	23:28	5.06S	156.05E	852702810	71	0.6	0.2	-4.0	
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99031612.dat	1999/03/16	11:28	0.08S	156.03E	852102315	79	1.0	0.2	-1.0	
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99031912.dat	1999/03/19	11:28	0.02N	164.90E	852301112	80	1.2	0.3	0.0	
99032000.dat	1999/03/19	23:28	0.01N	164.97E	852301114	80	0.5	0.2	-5.0	
99032012.dat	1999/03/20	11:31	1.09N	164.98E	852301003	81	1.4	0.3	0.0	

Reference

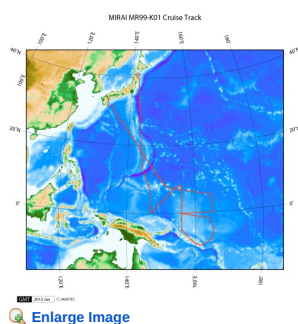
K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002:Radiosonde observation from the ship in the tropical region. [\[PDF:400kbyte\]](#)
JAMSTECR, Vol.45, 31-39.

Others

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

Note

Related Information



MR99-K01

Ship Name: MIRAI
Period: 1999-02-07 - 1999-03-31
Chief Scientist: Yoshitumi Kuroda (JAMSTEC)
Project Name: [Tropical Ocean Climate Study (TOCS)]

Update History

2014-07-11 An observation data was registered.
2014-06-13 An observation data was registered.
2013-01-25 An observation data was registered.

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YOKOSUKA
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CHIKYU
KAIMEI
SHINSEI MARU
HAKUHO MARU

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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

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Go to a Dive Information

Dive ID:



MIRAI MR99-K01 Radiosonde

Last Modified: 2014-07-11

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Cruise ID: **MR99-K01**

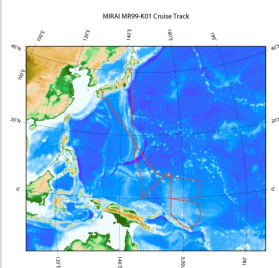
Radiosonde: Processed (DMO)-Corrected

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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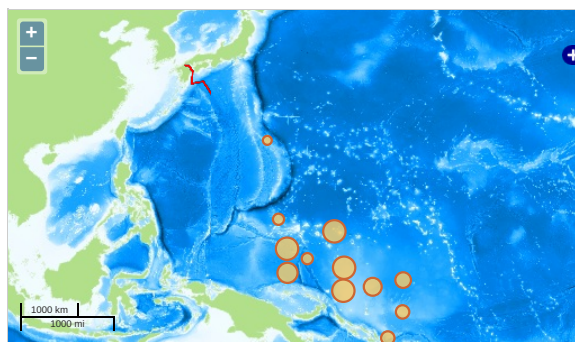
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ATMOSPHERE > ATMOSPHERIC WINDS > WIND PROFILES

Observation Map

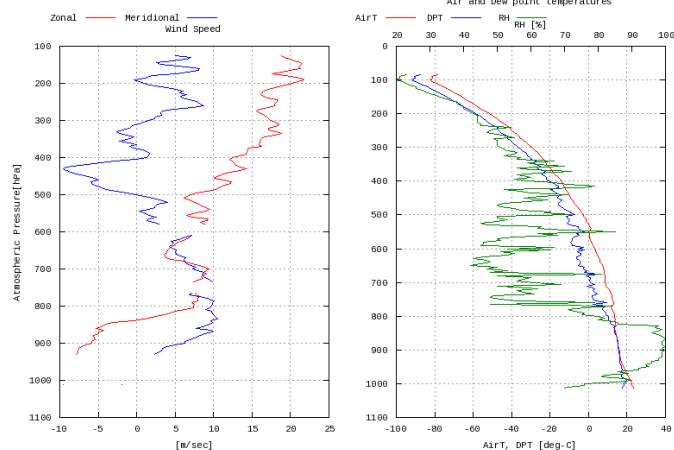
1. Clicking the icon displays a balloon with observation information.
2. Then click the observation name, figures will be displayed.



Figures

99021106

MR99-K01: 99021106
Radiosonde



Data List

☐ File names

☐ 99021106.dat

☐ 99021500.dat

☐ 99021512.dat

☐ 99021600.dat

☐ 99021612.dat

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☐ 99021912.dat

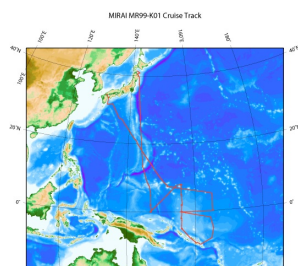
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Related Information



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MR99-K01

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 Chief Scientist: Yoshifumi Kuroda (JAMSTEC)
 Project Name: [Tropical Ocean Climate Study (TOCS)]

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POWER GRAB SAMPLER
(SHELL)
POWER GRAB SAMPLER
(CLOW)
BMS

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