

MIRAI MR02-K05 Leg1 Radiosonde

Last Modified: 2014-07-11

ReadMe Observation Data Data Format

Cruise ID: **MR02-K05 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/MR02-K05_leg1_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

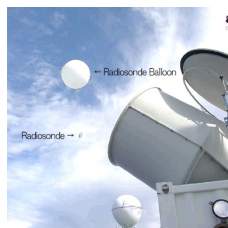
Instrument:

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 [%]	
02082814.dat	2002/08/28	13:59	50.51N	164.46E	203102312	220	0.5	-0.4	1.0	
02082902.dat	2002/08/29	01:59	52.18N	168.73E	203102114	221	0.7	-0.4	0.0	
02082913.dat	2002/08/29	12:59	53.51N	172.90E	203102105	221	0.9	-0.2	1.0	
02083001.dat	2002/08/30	00:59	53.70N	178.22E	203102113	222	0.8	-0.4	0.0	
02083013.dat	2002/08/30	13:09	53.90N	176.33W	203102111	222	0.0	0.0	0.0	
02083101.dat	2002/08/31	00:59	54.10N	171.07W	203102110	223	0.5	-0.1	0.0	
02083112.dat	2002/08/31	11:59	54.30N	166.83W	203102003	223	1.0	-0.3	1.0	
02090100.dat	2002/08/31	23:59	54.30N	166.81W	203102002	223	0.6	-0.4	0.0	
02090400.dat	2002/09/03	23:39	60.05N	168.54W	203102001	226	1.1	-0.2	1.0	
02090412.dat	2002/09/04	11:29	63.18N	167.43W	203102311	227	1.5	0.0	0.0	
02090500.dat	2002/09/04	23:29	65.79N	168.49W	203102103	227	0.5	0.0	0.0	
02090512.dat	2002/09/05	11:29	68.36N	168.12W	203102102	228	0.9	-0.3	1.0	
02090600.dat	2002/09/05	23:29	70.50N	163.98W	203102101	228	0.7	-0.2	1.0	
02090612.dat	2002/09/06	11:29	70.85N	160.43W	203102100	229	0.9	-0.1	1.0	
02090700.dat	2002/09/06	23:30	71.67N	155.61W	203102109	229	1.2	-0.3	1.0	
02090706.dat	2002/09/07	05:29	72.07N	154.53W	203102108	230	1.0	-0.1	4.0	
02090712.dat	2002/09/07	11:29	71.31N	157.34W	203102107	230	1.6	-0.2	1.0	
02090718.dat	2002/09/07	17:29	71.35N	156.97W	203102106	230	1.3	-0.1	1.0	
02090800.dat	2002/09/07	23:39	71.83N	156.84W	203400209	234	1.1	-0.2	1.0	
02090806.dat	2002/09/08	05:30	71.72N	154.88W	203400206	235	1.0	-0.3	2.0	
02090812.dat	2002/09/08	11:29	71.77N	155.24W	203400208	235	0.9	-0.4	0.0	
02090818.dat	2002/09/08	17:29	72.11N	156.89W	203400205	235	1.0	-0.2	1.0	
02090900.dat	2002/09/08	23:29	72.48N	159.81W	203400204	235	1.2	-0.6	2.0	

02090906.dat	2002/09/09	05:29	72.83N	159.07W	203400203	236	1.2	-0.4	1.0	
02090912.dat	2002/09/09	11:29	73.05N	158.33W	203102315	232	0.9	-0.2	0.0	
02090918.dat	2002/09/09	17:29	73.35N	157.48W	203102104	232	1.1	0.0	0.0	
02091000.dat	2002/09/10	00:15	73.51N	157.06W	203102313	233	0.8	-0.1	0.0	
02091006.dat	2002/09/10	05:29	73.84N	157.01W	203400113	237	1.1	-0.3	1.0	
02091012.dat	2002/09/10	12:09	74.33N	157.71W	203400100	237	0.7	-0.4	0.0	
02091018.dat	2002/09/10	17:29	74.50N	158.01W	203400101	237	1.8	-0.2	2.0	
02091100.dat	2002/09/10	23:29	74.45N	158.74W	203400215	237	0.5	-0.4	1.0	
02091106.dat	2002/09/11	05:30	74.26N	158.26W	203400214	238	1.3	-0.3	2.0	
02091112.dat	2002/09/11	11:29	74.46N	159.59W	203400213	238	1.0	-0.2	1.0	
02091118.dat	2002/09/11	17:29	73.96N	161.53W	203400212	238	0.7	-0.3	0.0	
02091200.dat	2002/09/11	23:30	74.12N	162.89W	203400211	238	0.9	-0.1	1.0	
02091206.dat	2002/09/12	05:29	73.67N	164.11W	203400210	239	0.9	-0.2	0.0	
02091212.dat	2002/09/12	11:29	73.46N	163.65W	203400207	239	0.5	0.0	1.0	
02091218.dat	2002/09/12	17:29	73.71N	161.00W	203100604	235	0.9	0.1	-1.0	
02091300.dat	2002/09/12	23:29	73.78N	159.00W	203100714	235	1.0	-0.4	1.0	
02091306.dat	2002/09/13	05:29	73.94N	156.89W	203100603	236	0.8	-0.2	0.0	
02091312.dat	2002/09/13	11:30	73.80N	155.66W	203100709	236	0.9	-0.1	2.0	
02091318.dat	2002/09/13	17:29	73.50N	155.13W	203100708	236	1.1	-0.2	2.0	
02091400.dat	2002/09/13	23:29	73.05N	154.34W	203100713	236	0.8	-0.3	1.0	
02091406.dat	2002/09/14	05:29	72.50N	153.38W	203100712	237	1.1	-0.2	2.0	
02091412.dat	2002/09/14	11:29	72.00N	152.51W	203100711	237	0.7	-0.1	2.0	
02091418.dat	2002/09/14	17:29	72.51N	151.36W	203100303	237	0.7	0.1	0.0	
02091500.dat	2002/09/14	23:29	73.00N	150.18W	203100302	237	0.9	-0.2	1.0	
02091506.dat	2002/09/15	05:29	73.00N	148.02W	203100300	238	0.9	-0.1	3.0	
02091512.dat	2002/09/15	11:59	72.50N	146.62W	203100305	238	0.7	-0.1	1.0	
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02091600.dat	2002/09/15	23:30	72.64N	143.15W	203100613	238	0.6	-0.3	1.0	
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02091612.dat	2002/09/16	11:30	72.64N	142.35W	203100611	239	0.7	-0.1	1.0	
02091618.dat	2002/09/16	17:29	72.49N	142.14W	203100301	239	1.0	-0.3	1.0	
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02091806.dat	2002/09/18	05:29	70.31N	141.44W	203100605	241	0.9	-0.2	0.0	
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02091818.dat	2002/09/18	17:29	70.16N	139.97W	203100609	241	1.0	-0.2	1.0	
02091900.dat	2002/09/18	23:29	70.25N	136.29W	203100608	241	0.7	-0.2	-1.0	
02091906.dat	2002/09/19	05:29	70.89N	133.99W	203100600	242	0.9	0.0	1.0	
02091912.dat	2002/09/19	11:29	70.84N	134.12W	203100715	242	0.8	0.0	0.0	
02091918.dat	2002/09/19	17:29	70.87N	133.96W	230410502	57	1.1	1.1	-2.0	
02092000.dat	2002/09/19	23:29	70.24N	133.95W	230410611	57	1.1	-0.2	1.0	
02092006.dat	2002/09/20	05:29	70.14N	133.49W	230410610	58	1.0	-0.5	3.0	
02092012.dat	2002/09/20	11:29	70.17N	133.62W	230612406	56	1.3	-0.2	0.0	
02092018.dat	2002/09/20	17:29	70.10N	133.42W	230410607	58	1.4	0.5	-1.0	
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02092200.dat	2002/09/21	23:29	70.58N	127.49W	230410609	59	0.8	0.9	-1.0	
02092206.dat	2002/09/22	05:29	70.90N	127.92W	230612407	58	1.0	0.7	-3.0	
02092212.dat	2002/09/22	11:29	70.86N	130.52W	230612410	58	0.7	0.4	-1.0	
02092218.dat	2002/09/22	17:29	70.47N	133.81W	230410506	60	0.8	-0.2	3.0	
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02092318.dat	2002/09/23	17:29	70.40N	139.31W	230410210	61	1.2	0.1	1.0	
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02092512.dat	2002/09/25	11:29	69.77N	139.10W	230410204	63	1.4	-0.4	2.0	
02092518.dat	2002/09/25	17:29	70.29N	137.23W	230410202	63	1.0	0.4	-2.0	
02092600.dat	2002/09/25	23:29	70.13N	139.63W	230410201	63	0.8	0.0	0.0	
02092606.dat	2002/09/26	05:29	70.24N	138.26W	230410514	64	0.5	0.4	-1.0	
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02092718.dat	2002/09/27	17:29	69.51N	138.10W	230410507	65	1.0	0.6	-2.0	
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02093018.dat	2002/09/30	17:29	71.34N	149.93W	121210113	497	1.2	-0.5	2.0	
02100118.dat	2002/10/01	17:29	73.57N	152.49W	121210107	498	1.1	-0.5	3.0	
02100218.dat	2002/10/02	17:29	74.75N	159.07W	121210101	499	0.7	-0.5	3.0	
02100301.dat	2002/10/03	01:09	74.97N	159.82W	230410503	71	0.6	0.6	-3.0	
02100318.dat	2002/10/03	17:29	76.32N	162.48W	050207610	661	1.0	-0.2	-1.0	
02100400.dat	2002/10/03	23:29	75.99N	163.61W	050207613	661	0.7	0.1	2.0	
02100418.dat	2002/10/04	17:39	75.98N	167.36W	050207611	662	-1.6	-0.6	6.0	
02100518.dat	2002/10/05	17:29	73.84N	168.83W	050207609	663	0.5	0.1	3.0	
02100621.dat	2002/10/06	21:19	69.81N	164.82W	230410504	74	0.6	0.8	-3.0	
02100723.dat	2002/10/07	23:09	65.64N	168.42W	230410500	75	0.9	0.3	-1.0	

Reference

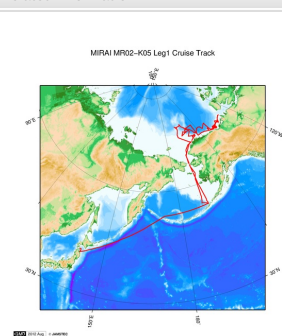
K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002:Radiosonde observation from the ship in the tropical region.[PDF:400kbyte]
JAMSTECR, Vol.45, 31-39.

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](#)

MR02-K05 Leg1

Ship Name: MIRAI
Period: 2002-08-24 - 2002-10-10
Chief Scientist: Akihiko Murata (JAMSTEC)/Koji Shimada (JAMSTEC)
Project Name: [Arctic Ocean Climate System Reaserch]

Update History

2014-07-11	An observation data was registerd.
2014-06-13	An observation data was registerd.
2014-03-13	An observation data was registerd.
2012-12-25	An observation data was registerd.

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Information of the Ships

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CHIKYU
KAIMEI
SHINSEI MARU
HAKUHO MARU

Information of the Submersibles

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

Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

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MIRAI MR02-K05 Leg1 Radiosonde

Last Modified: 2014-07-11

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Cruise ID: [MR02-K05 Leg1](#)

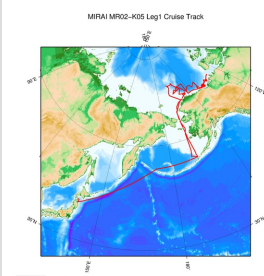
Radiosonde: Processed (DMO)-Corrected

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](#)

MR02-K05 Leg1

Ship Name: MIRAI

Period: 2002-08-24 - 2002-10-10

Chief Scientist: Akihiko Murata (JAMSTEC)/Koji Shimada (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Update History

2014-07-11	An observation data was registered.
2014-06-13	An observation data was registered.
2014-03-13	An observation data was registered.
2012-12-25	An observation data was registered.

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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 \(CLOW\)](#)
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Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

MIRAI MR02-K05 Leg1 Radiosonde

Last Modified: 2014-07-11

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Cruise ID: [MR02-K05 Leg1](#)

Radiosonde: Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

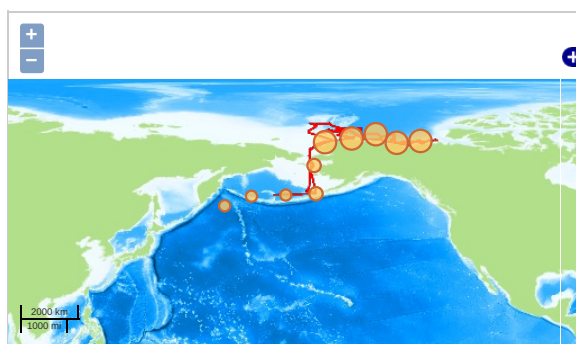
Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

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

Observation Map

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

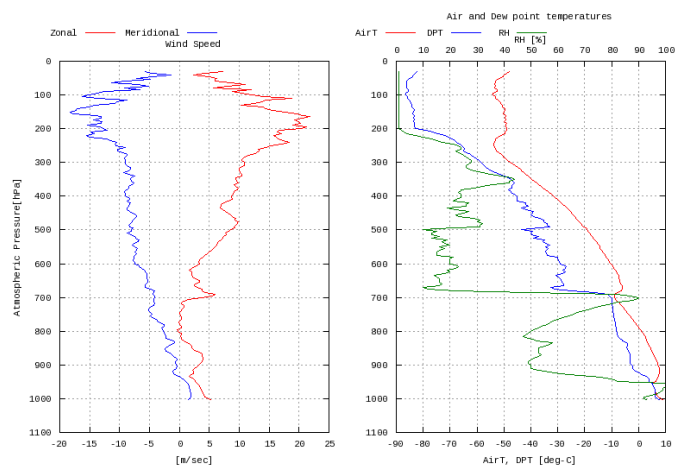


— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

Figures

02082814

MR02-K05 Leg1: 02082814
Radiosonde



Data List

☐ File names

☐ 02082814.dat

☐ 02082902.dat

☐ 02082913.dat

☐ 02083001.dat

☐ 02083013.dat

☐ 02083101.dat

☐ 02083112.dat

☐ 02090100.dat

☐ 02090400.dat

☐ 02090412.dat

☐ 02090500.dat

☐ 02090512.dat

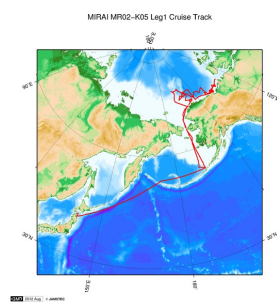
☐ 02090600.dat

☐ 02090612.dat

	File names
	02090706.dat
	02090712.dat
	02090718.dat
	02090800.dat
	02090806.dat
	02090812.dat
	02090818.dat
	02090900.dat
	02090906.dat
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	02091000.dat
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	02092018.dat
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<input type="checkbox"/>	02100621.dat
<input type="checkbox"/>	02100723.dat

Related Information



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MR02-K05 Leg1

Ship Name: MIRAI

Period: 2002-08-24 - 2002-10-10

Chief Scientist: Akihiko Murata (JAMSTEC)/Koji Shimada (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Update History

2014-07-11	An observation data was registerd.
2014-06-13	An observation data was registerd.
2014-03-13	An observation data was registerd.
2012-12-25	An observation data was registerd.

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[KM-ROV](#)
[POWER GRAB SAMPLER \(SHELL\)](#)
[POWER GRAB SAMPLER \(CLOW\)](#)
[BMS](#)

Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

