

MIRAI MR13-06 Leg2 Radiosonde

Last Modified: 2015-10-20

ReadMe Observation Data Data Format

Cruise ID: **MR13-06 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/MR13-06_leg1-2_all.pdf

For Using Data

Principal Investigator

Data Management Office

Use Constraints

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

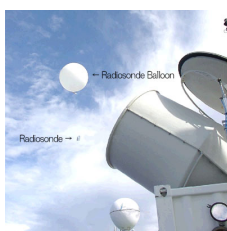
Data Citation

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 table of data page. 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[%]	
13101000.dat	2013/10/09	23:30	54.21N	167.51W	H4434286	350	0.03	-0.08	0.02	0.04	Rain
13101006.dat	2013/10/10	05:30	54.14N	169.03W	H4623179	337	-0.46	-0.19	-0.14	-0.12	
13101012.dat	2013/10/10	11:30	54.07N	170.79W	H4434323	350	0.06	-0.16	0.01	0.01	
13101018.dat	2013/10/10	17:30	53.99N	172.61W	H4434314	351	-0.09	-0.13	0.32	-0.03	
13101100.dat	2013/10/10	23:30	53.91N	174.49W	H4434290	351	1.18	-0.18	0.09	-0.02	
13101106.dat	2013/10/11	05:30	53.82N	176.50W	H4333658	358	-0.46	-0.19	-0.14	-0.12	
13101112.dat	2013/10/11	11:30	53.73N	178.61W	H4434292	352	-0.96	-0.18	0.11	0.12	
13101118.dat	2013/10/11	17:30	53.64N	179.24E	H4424471	353	-0.10	-0.10	-0.05	0.00	
13101200.dat	2013/10/11	23:30	53.54N	176.99E	H4423970	353	-0.35	-0.13	0.15	0.59	
13101206.dat	2013/10/12	05:30	53.47N	175.26E	H4733922	331	0.17	-0.33	-0.02	0.01	
13101212.dat	2013/10/12	11:30	53.38N	173.49E	H4424470	354	0.03	-0.19	0.00	-0.01	
13101218.dat	2013/10/12	17:30	52.90N	171.74E	H4434294	353	-0.53	-0.23	0.05	0.05	
13101300.dat	2013/10/12	23:30	51.73N	170.21E	H4424117	354	0.13	-0.14	0.14	0.11	
13101306.dat	2013/10/13	05:30	50.71N	168.92E	H4423371	354	0.28	-0.15	0.02	0.01	Rain, Fog, Max:3868m
13101312.dat	2013/10/13	11:30	49.82N	167.79E	H4434313	354	0.31	-0.07	-0.08	-0.07	Rain
13101318.dat	2013/10/13	17:30	49.20N	166.88E	H4434329	354	0.39	-0.10	-0.08	-0.05	No GPS; 6226m-7227m
13101400.dat	2013/10/13	23:30	48.87N	166.59E	H4433800	354	1.11	-0.11	0.05	0.02	

	Launch time (UTC)	Latitude	Longitude	Sensor information	Age	Calibration result	Result	Note
13101406.dat	2013/10/14 05:30	44.80N	164.83E	H4424447	355	-0.03	-0.09	0.10
13101412.dat	2013/10/14 11:30	47.73N	164.83E	H4434322	354	0.99	-0.11	-0.06
13101418.dat	2013/10/14 17:30	46.00N	163.07E	H4424554	356	-0.31	-0.15	0.04
13101500.dat	2013/10/14 23:30	46.16N	163.07E	H4424554	356	-0.06	-0.15	0.11
13101506.dat	2013/10/15 05:30	45.60N	161.74E	H4434284	355	-0.19	-0.14	0.06
13101512.dat	2013/10/15 11:30	45.03N	160.39E	H4423376	356	-0.01	-0.11	0.10
13101518.dat	2013/10/15 17:30	44.22N	159.36E	H4424593	357	-0.14	-0.16	-0.08
13101600.dat	2013/10/15 23:30	43.08N	158.23E	H4434332	356	0.27	-0.16	0.03
13101606.dat	2013/10/16 05:30	42.00N	157.15E	H4423383	357	-0.28	-0.20	0.19
13101706.dat	2013/10/17 05:30	40.65N	153.40E	H4333652	364	0.13	-0.19	0.29
13101712.dat	2013/10/17 11:30	40.52N	152.27E	H4424595	358	0.19	-0.16	-0.11
13101718.dat	2013/10/17 17:30	40.34N	150.88E	H4623185	345	-0.66	-0.10	0.04
13101800.dat	2013/10/17 23:30	40.13N	149.44E	H4623190	345	0.03	-0.16	-0.03
13101806.dat	2013/10/18 05:30	40.13N	148.13E	H4423649	359	0.19	0.00	0.22
13101812.dat	2013/10/18 11:30	40.19N	146.52E	H4624157	346	-0.45	-0.14	-0.14
13101818.dat	2013/10/18 17:30	40.26N	145.13E	H4553670	350	-0.05	-0.06	-0.06

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: DigiCORALL MW31(after 2011 Apr.) [VAISALA, Finland]

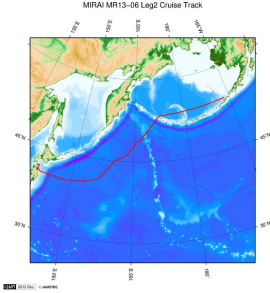
· Radiosonde Sensor: RS92-SGP, RS80-15GH, RS80-15G [VAISALA, Finland]

· * 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



MR13-06 Leg2

Ship Name: MIRAI


Period: 2013-10-09 - 2013-10-20

Chief Scientist: Shigeto Nishino (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Study on environmental changes in the sea-ice reduction regions of the Arctic Ocean

Title:

 [Enlarge Image](#)

Update History	
2015-10-20	An observation data was registered.

JAMSTEC

Site Policy

Privacy Policy

Application for Data and Samples

Data Policy

What's New

Update History

Feeds

Lists

Publication List

Amount of Public Info.

Data

Map Search

Data Tree

Detailed Search

Information of the Ships

NATSUSHIMA

KAIYO

YOKOSUKA

MIRAI

KAIREI

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

Go to a Dive Information

Dive ID:

Go

 **JAMSTEC** 国立研究開発法人
海洋研究開発機構
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

Copyright 2011 Japan Agency for Marine-Earth Science and Technology

MIRAI MR13-06 Leg2 Radiosonde

Last Modified: 2015-10-20

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

Cruise ID: [MR13-06 Leg2](#)

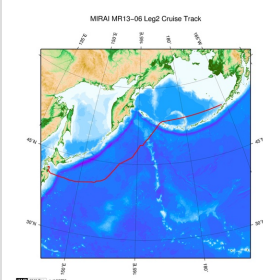
Radiosonde: Processed (DMO)-Corrected

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](#)

MR13-06 Leg2

Ship Name: MIRAI

Period: 2013-10-09 - 2013-10-20

Chief Scientist: Shigeto Nishino (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Study on environmental changes in the sea-ice reduction regions of the Arctic Ocean

Title:

Update History

2015-10-20 An observation data was registerd.

JAMSTEC
[Site Policy](#)
[Privacy Policy](#)
[Application for Data and Samples](#)
[Data Policy](#)
What's New
[Update History](#)
[Feeds](#)

Lists
[Publication List](#)
[Amount of Public Info.](#)
Data
[Map Search](#)
[Data Tree](#)
[Detailed Search](#)

Information of the Ships
[NATSUSHIMA](#)
[KAIYO](#)
[YOKOSUKA](#)
[MIRAI](#)
[KAIREI](#)
[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:

MIRAI MR13-06 Leg2 Radiosonde

Last Modified: 2015-10-20

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

Cruise ID: [MR13-06 Leg2](#)

Radiosonde: Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

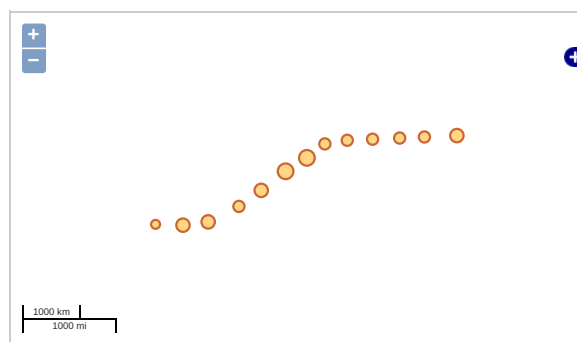
Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

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

Observation Map

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

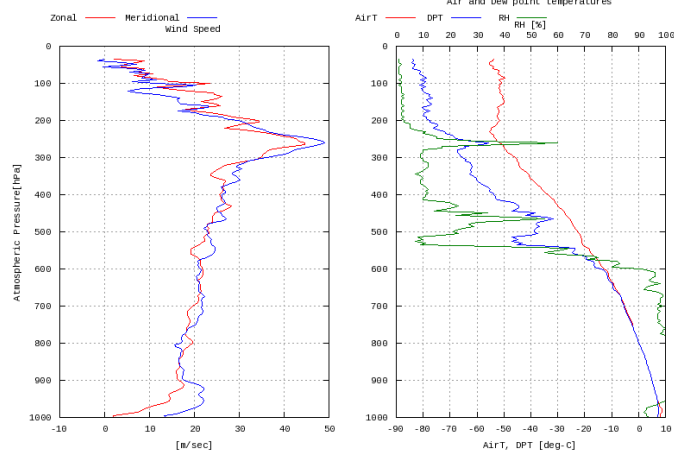


Imagery reproduced from ...

Figures

13101000

MR13-06 Leg2: 13101000
Radiosonde



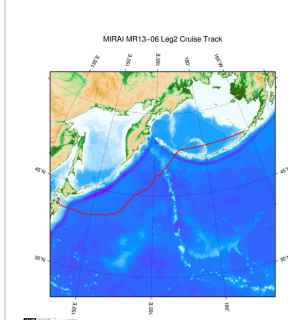
Data List

☐ File names

- ☐ 13101000.dat
- ☐ 13101006.dat
- ☐ 13101012.dat
- ☐ 13101018.dat
- ☐ 13101100.dat
- ☐ 13101106.dat
- ☐ 13101112.dat
- ☐ 13101118.dat
- ☐ 13101200.dat
- ☐ 13101206.dat
- ☐ 13101212.dat
- ☐ 13101218.dat
- ☐ 13101300.dat
- ☐ 13101306.dat

<input type="checkbox"/>	File names
<input type="checkbox"/>	13101318.dat
<input type="checkbox"/>	13101400.dat
<input type="checkbox"/>	13101406.dat
<input type="checkbox"/>	13101412.dat
<input type="checkbox"/>	13101418.dat
<input type="checkbox"/>	13101500.dat
<input type="checkbox"/>	13101506.dat
<input type="checkbox"/>	13101512.dat
<input type="checkbox"/>	13101518.dat
<input type="checkbox"/>	13101600.dat
<input type="checkbox"/>	13101606.dat
<input type="checkbox"/>	13101706.dat
<input type="checkbox"/>	13101712.dat
<input type="checkbox"/>	13101718.dat
<input type="checkbox"/>	13101800.dat
<input type="checkbox"/>	13101806.dat
<input type="checkbox"/>	13101812.dat
<input type="checkbox"/>	13101818.dat

Related Information



[Enlarge Image](#)

MR13-06 Leg2

Ship Name: MIRAI

Period: 2013-10-09 - 2013-10-20

Chief Scientist: Shigeto Nishino (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Study on environmental changes in the sea-ice reduction regions of the Arctic Ocean

Title:

Update History

2015-10-20	An observation data was registered.
------------	-------------------------------------

JAMSTEC

[Site Policy](#)

[Privacy Policy](#)

[Application for Data and Samples](#)

[Data Policy](#)

What's New

[Update History](#)

[Feeds](#)

Lists

[Publication List](#)

[Amount of Public Info.](#)

Data

[Map Search](#)

[Data Tree](#)

[Detailed Search](#)

Information of the Ships

[NATSUSHIMA](#)

[KAIYO](#)

[YOKOSUKA](#)

[MIRAI](#)

[KAIREI](#)

[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:

Copyright 2011 Japan Agency for Marine-Earth Science and Technology



JAMSTEC
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

国立研究開発法人
海洋研究開発機構