

## MIRAI MR13-03 Leg1 Radiosonde

Last Modified: 2015-08-26

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

Cruise ID: [MR13-03 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/MR13-03\\_leg1-2\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR13-03_leg1-2_all.pdf)

#### For Using Data

##### Principal Investigator

Data Management Office

##### Use Constraints

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

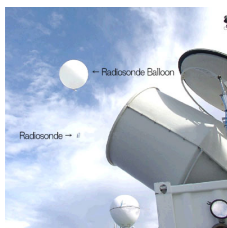
##### Data Citation

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[%]	
13060600.dat	2013/06/05	23:30	21.72N	137.23E	H4424589	225	0.11	-0.03	-0.31	-0.33	
13060606.dat	2013/06/06	05:30	20.66N	136.83E	H4643772	209	0.35	-0.04	-0.09	-0.13	
13060612.dat	2013/06/06	11:30	19.56N	136.39E	H4424446	226	0.06	-0.11	-0.36	-0.40	
13060618.dat	2013/06/06	17:30	18.49N	135.99E	H4424539	226	-0.69	-0.07	-0.20	-0.21	
13060700.dat	2013/06/06	23:30	17.42N	135.56E	H4424114	226	0.23	-0.14	-0.06	-0.09	Rain
13060706.dat	2013/06/07	05:30	16.24N	135.10E	H4423373	226	0.68	-0.16	-0.21	-0.23	
13060712.dat	2013/06/07	11:30	15.26N	135.00E	H4733935	204	0.09	-0.16	-0.39	-0.44	
13060718.dat	2013/06/07	17:30	14.10N	135.01E	H4424577	227	-0.51	-0.11	-0.25	-0.29	
13060800.dat	2013/06/07	23:30	13.06N	135.00E	H4533767	219	-0.64	-0.07	-0.31	-0.34	
13060806.dat	2013/06/08	05:30	12.12N	135.00E	H4424118	227	-0.08	-0.17	-0.12	-0.18	
13060812.dat	2013/06/08	11:30	10.96N	135.00E	H4423629	228	-0.05	-0.16	-0.10	-0.12	
13060818.dat	2013/06/08	17:30	9.93N	134.99E	H4423381	228	-0.17	-0.10	-0.16	-0.20	Rain
13060900.dat	2013/06/08	23:30	8.91N	134.86E	H4643784	212	-0.26	-0.10	-0.13	-0.13	
13060906.dat	2013/06/09	05:30	8.25N	134.33E	H4643789	212	-0.64	-0.04	-0.13	-0.18	
13060912.dat	2013/06/09	11:30	7.75N	134.30E	H4423380	228	0.08	-0.09	-0.07	-0.22	
13060918.dat	2013/06/09	17:30	7.76N	134.29E	H4424564	229	-0.44	-0.11	-0.29	-0.28	

#### Reference

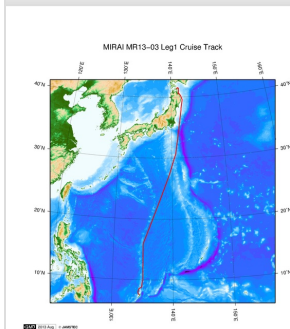
K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002:Radiosonde observation from the ship in the tropical region. [\[PDF:400kbyte\]](#)

#### 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



[Enlarge Image](#)

#### MR13-03 Leg1

Ship Name: MIRAI  
Period: 2013-05-31 - 2013-06-10  
Chief Scientist: Masaki Katsumata (JAMSTEC)  
Project Name: [MJO Research]  
Proposal ▶ Observational Study on the Intreseasonal Variability over the western Pacific  
Title:

#### Update History

2015-08-26	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 MR13-03 Leg1 Radiosonde

Last Modified: 2015-08-26

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

Cruise ID: [MR13-03 Leg1](#)

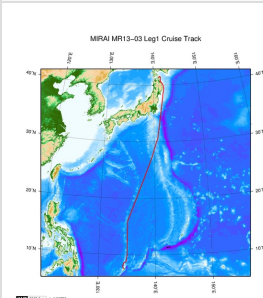
Radiosonde: Processed (DMO)-Corrected

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](#)

#### MR13-03 Leg1

Ship Name: MIRAI

Period: 2013-05-31 - 2013-06-10

Chief Scientist: Masaki Katsumata (JAMSTEC)

Project Name: [MJO Research]

Proposal ▶ Observational Study on the Intreseasonal Variability over the western Pacific

Title:

### Update History

2015-08-26 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:

## MIRAI MR13-03 Leg1 Radiosonde

Last Modified: 2015-08-26

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

Cruise ID: [MR13-03 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

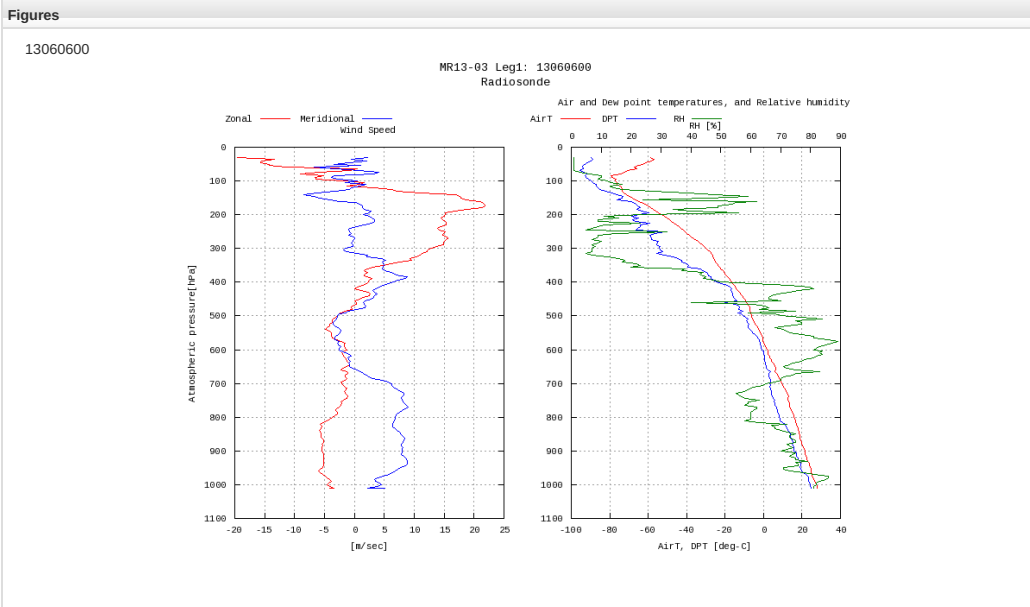
Observation Map

1. Clicking the icon displays a balloon with observation information.

2. Then click the observation name, figures will be displayed.

Imagery reproduced from ...

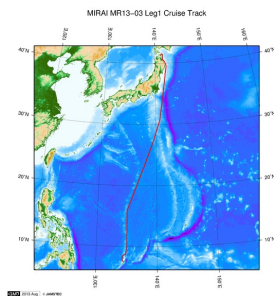
... Observation Line    ... Navigation    ... Observation, Dive Point, Hole



Data List

Add to Basket

<input type="checkbox"/> File names
<input type="checkbox"/> 13060600.dat
<input type="checkbox"/> 13060606.dat
<input type="checkbox"/> 13060612.dat
<input type="checkbox"/> 13060618.dat
<input type="checkbox"/> 13060700.dat
<input type="checkbox"/> 13060706.dat
<input type="checkbox"/> 13060712.dat
<input type="checkbox"/> 13060718.dat
<input type="checkbox"/> 13060800.dat
<input type="checkbox"/> 13060806.dat
<input type="checkbox"/> 13060812.dat
<input type="checkbox"/> 13060818.dat
<input type="checkbox"/> 13060900.dat
<input type="checkbox"/> 13060906.dat
<input type="checkbox"/> 13060912.dat
<input type="checkbox"/> 13060918.dat



 [Enlarge Image](#)

#### MR13-03 Leg1

Ship Name: MIRAI

Period: 2013-05-31 - 2013-06-10

Chief Scientist: Masaki Katsumata (JAMSTEC)

Project Name: [MJO Research]

Proposal ▶ Observational Study on the Intreseasonal Variability over the western Pacific

Title:

#### Update History

2015-08-26

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

#### Go to a Dive Information

Dive ID:

Go

Copyright 2011 Japan Agency for Marine-Earth Science and Technology



**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