

## MIRAI MR11-05 Leg1 Radiosonde

Last Modified: 2017-08-23

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

Cruise ID: [MR11-05 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/MR11-05\\_leg1-2\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR11-05_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[%]	
11070100.dat	2011/06/30	23:30	47.00N	160.08E	G0540797	154	-0.01	-0.21	-0.12	-0.21	Drizzle
11070103.dat	2011/07/01	02:30	47.00N	160.09E	F0110358	549	0.57	-0.36	-0.28	-0.30	Drizzle
11071006.dat	2011/07/10	05:30	41.43N	150.52E	F0110368	558	0.43	-0.33	-0.16	-0.16	Fog
11071008.dat	2011/07/10	07:30	41.30N	150.28E	F0110367	558	0.28	-0.31	-0.16	-0.23	Fog
11071009.dat	2011/07/10	08:30	41.16N	150.05E	F0110340	558	0.63	-0.38	-0.11	-0.09	Fog
11071011.dat	2011/07/10	10:30	40.97N	149.82E	F0110361	558	0.67	-0.23	-0.12	-0.15	
11071012.dat	2011/07/10	11:30	40.74N	149.54E	E5340983	556	-0.09	-0.30	-0.10	-0.10	
11071014.dat	2011/07/10	13:30	40.54N	149.31E	F0110325	559	0.25	-0.38	-0.16	-0.18	
11071015.dat	2011/07/10	14:30	40.33N	149.06E	F0110906	559	0.43	-0.24	-0.12	-0.12	
11071017.dat	2011/07/10	16:30	40.12N	148.81E	E5340076	556	0.65	-0.27	-0.20	-0.18	
11071018.dat	2011/07/10	17:30	39.90N	148.56E	E5340074	556	0.45	-0.23	-0.14	-0.21	
11071020.dat	2011/07/10	19:30	39.68N	148.29E	E5340082	556	0.90	-0.32	-0.19	-0.16	
11071021.dat	2011/07/10	20:30	39.46N	148.05E	F0110360	559	0.30	-0.36	-0.22	-0.22	
11071023.dat	2011/07/10	22:30	39.25N	147.79E	F0110377	559	0.59	-0.27	-0.30	-0.28	
11071100.dat	2011/07/10	23:30	39.01N	147.52E	F0110328	559	0.66	-0.36	-0.14	-0.08	
11071102.dat	2011/07/11	01:30	38.82N	147.28E	E5340067	556	0.57	-0.23	-0.23	-0.11	
11071103.dat	2011/07/11	02:30	38.59N	147.01E	F0110364	559	0.36	-0.28	-0.17	-0.15	

11071105.dat	2011/07/11 04:30	38.35N	146.78E	F0110352	559	0.81	-0.36	-0.10	-0.07	
11071107.dat	2011/07/11 06:30	38.14N	146.43E	F0110345	559	0.41	-0.38	-0.15		Fog
11071108.dat	2011/07/11 09:30	38.07N	146.42E	F0110329	559	0.65	-0.44	-0.17	-0.13	Fog
11071112.dat	2011/07/11 12:30	37.95N	146.05E	F0110356	560	0.76	-0.35	-0.10	-0.11	
11071113.dat	2011/07/11 12:30	37.95N	146.05E	F0110356	560	0.76	-0.35	-0.10	-0.11	
11071115.dat	2011/07/11 14:30	37.85N	145.73E	F0110339	560	0.41	-0.41	-0.10	0.01	Fog
11071116.dat	2011/07/11 15:30	37.75N	145.38E	F0110384	560	0.72	-0.26	-0.19	-0.18	Fog
11071118.dat	2011/07/11 17:30	37.63N	145.07E	E5340075	557	0.45	-0.32	-0.10	-0.11	Fog
11071119.dat	2011/07/11 18:30	37.52N	144.71E	F0110351	560	0.21	-0.34	-0.08	-0.08	Fog
11071121.dat	2011/07/11 20:30	37.42N	144.40E	F0110349	560	0.78	-0.33	-0.09	-0.15	Fog
11071122.dat	2011/07/11 21:30	37.31N	144.06E	F0110369	560	0.72	-0.25	-0.08	-0.07	
11071200.dat	2011/07/11 23:30	37.22N	143.74E	F0110342	560	0.81	-0.40	-0.10	-0.09	
11071201.dat	2011/07/12 00:30	37.10N	143.40E	F0110353	560	0.76	-0.24	-0.09	-0.07	
11071203.dat	2011/07/12 02:30	36.99N	143.05E	F0110375	560	0.54	-0.22	-0.11	-0.13	
11071204.dat	2011/07/12 03:30	36.88N	142.75E	F0110370	560	0.68	-0.22	-0.13	-0.09	
11071206.dat	2011/07/12 05:30	36.78N	142.42E	F0110334	560	0.74	-0.34	-0.04	-0.05	
11071207.dat	2011/07/12 06:30	36.67N	142.04E	E5340066	557	0.51	-0.22	-0.24	-0.12	
11071209.dat	2011/07/12 08:30	36.57N	141.74E	E5340077	557	0.75	-0.25	-0.16	-0.14	
11071211.dat	2011/07/12 10:30	36.48N	141.50E	E5340065	557	0.71	-0.27	-0.15	-0.17	Fog

#### Reference

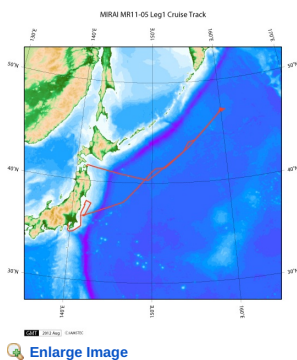
K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002:Radiosonde observation from the ship in the tropical region.[PDF:400kbyte]  
JAMSTECR, Vol.45, 31-39.

#### Others

- Main processor: DigiCORAlll, 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



#### MR11-05 Leg1

Ship Name: MIRAI  
Period: 2011-06-26 - 2011-07-16  
Chief Scientist: Makio Honda (JAMSTEC)  
Project Name: [Station K2, Station KNOT]  
Proposal ▶ Effects of meso-zooplankton on food web and vertical flux  
Title:

#### Update History

2017-08-23	An observation data was registered.
2014-08-08	An observation data was registered.
2014-07-30	An observation data was registered.

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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

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Cruise ID:

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Dive ID:



## MIRAI MR11-05 Leg1 Radiosonde

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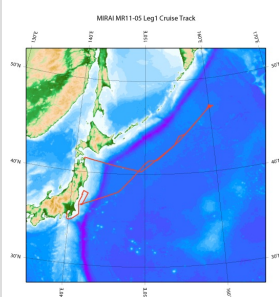
Radiosonde: Processed (DMO)-Corrected

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](#)

#### MR11-05 Leg1

Ship Name: MIRAI

Period: 2011-06-26 - 2011-07-16

Chief Scientist: Makio Honda (JAMSTEC)

Project Name: [Station K2, Station KNOT]

Proposal ▶ Effects of meso-zooplankton on food web and vertical flux

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2017-08-23	An observation data was registerd.
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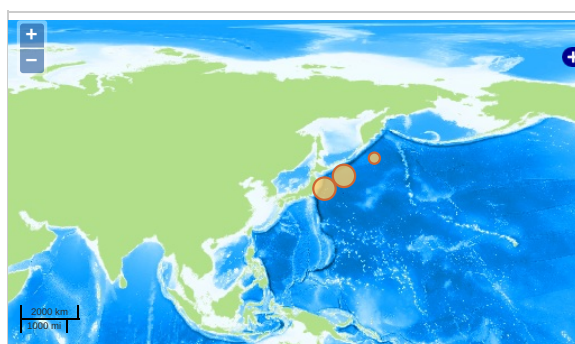
Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

Science Keywords:

ATMOSPHERE > ATMOSPHERIC WATER VAPOR > DEW POINT TEMPERATURE  
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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.

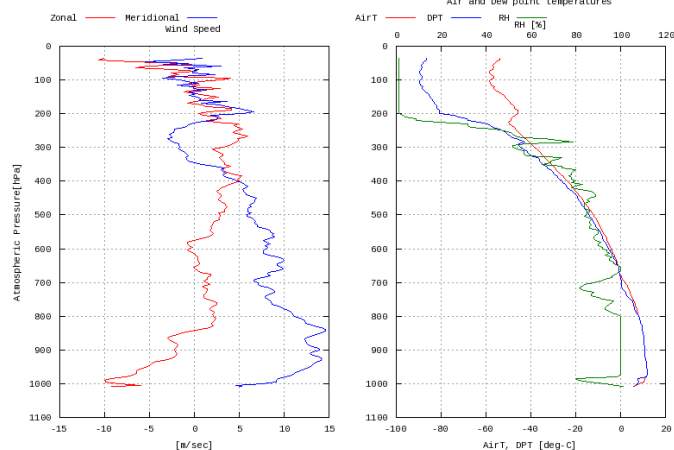


— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

### Figures

11070100

MR11-05 Leg1: 11070100  
Radiosonde



### Data List

☐ File names

☐ 11070100.dat

☐ 11070103.dat

☐ 11071006.dat

☐ 11071008.dat

☐ 11071009.dat

☐ 11071011.dat

☐ 11071012.dat

☐ 11071014.dat

☐ 11071015.dat

☐ 11071017.dat

☐ 11071018.dat

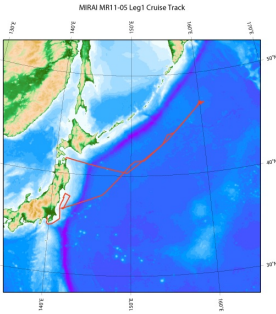
☐ 11071020.dat

☐ 11071021.dat

☐ 11071023.dat

File names
 11071102.dat
 11071103.dat
 11071105.dat
 11071107.dat
 11071110.dat
 11071112.dat
 11071113.dat
 11071115.dat
 11071116.dat
 11071118.dat
 11071119.dat
 11071121.dat
 11071122.dat
 11071200.dat
 11071201.dat
 11071203.dat
 11071204.dat
 11071206.dat
 11071207.dat
 11071209.dat
 11071211.dat

Related Information



**MR11-05 Leg1**

Ship Name: MIRAI


Period: 2011-06-26 - 2011-07-16

Chief Scientist: Makio Honda (JAMSTEC)

Project Name: [Station K2, Station KN0T]

Proposal ▶ Effects of meso-zooplankton on food web and vertical flux

Title:


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