

MIRAI MR15-03 Leg2 Radiosonde

Last Modified: 2017-10-21

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

Cruise ID: [MR15-03 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/MR15-03_leg2_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 (MR15-01 -)



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 (In the RS41 sonde sensor, it has only one humidity sensor, and temperature correction is unnecessary). 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.dat, 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 | Type | Serial No. | Age | Atmospheric pressure [hPa] | Air temperature [deg-C] | Relative humidity1 [%] | Relative humidity2 [%] | |
| 15101100.dat | 2015/10/10 | 23:41 | 53.92N | 174.07W | RS92-SGP | K4273177 | 356 | -1.07 | -0.15 | -0.4 | -0.5 | |
| 15101112.dat | 2015/10/11 | 11:30 | 53.79N | 177.34W | RS92-SGP | K4213827 | 363 | -0.49 | -0.14 | -0.3 | -0.3 | |
| 15101200.dat | 2015/10/11 | 23:30 | 53.64N | 178.82E | RS41-SGP | L2210024 | 139 | 0.89 | N/A | 0.3 | N/A | Drrizle |
| 15101212.dat | 2015/10/12 | 11:30 | 53.43N | 174.20E | RS92-SGP | K4363348 | 352 | -0.84 | -0.18 | -0.4 | -0.4 | |
| 15101300.dat | 2015/10/12 | 23:27 | 52.22N | 171.13E | RS92-SGP | K4363357 | 352 | -0.44 | -0.09 | -0.3 | -0.3 | |
| 15101312.dat | 2015/10/13 | 11:30 | 50.62N | 169.91E | RS92-SGP | K4363360 | 353 | -0.68 | -0.17 | -0.3 | -0.3 | |
| 15101400.dat | 2015/10/13 | 23:30 | 48.88N | 168.62E | RS92-SGP | K4363338 | 353 | -0.33 | -0.20 | -0.3 | -0.3 | |
| 15101412.dat | 2015/10/14 | 11:30 | 46.98N | 167.32E | RS92-SGP | K4363382 | 354 | -0.58 | -0.11 | -0.4 | -0.4 | Drrizle |
| 15101500.dat | 2015/10/14 | 23:30 | 45.80N | 166.49E | RS92-SGP | K4363346 | 354 | -0.29 | -0.11 | -0.4 | -0.4 | |
| 15101512.dat | 2015/10/15 | 11:27 | 45.84N | 165.71E | RS92-SGP | K4363353 | 355 | -0.34 | -0.20 | -0.4 | -0.3 | |
| 15101600.dat | 2015/10/15 | 23:30 | 45.30N | 163.94E | RS92-SGP | K4363362 | 355 | -0.99 | -0.16 | -0.4 | -0.3 | |
| 15101612.dat | 2015/10/16 | 11:30 | 44.43N | 162.20E | RS92-SGP | K4363367 | 356 | -0.69 | -0.18 | -0.4 | -0.4 | |
| 15101701.dat | 2015/10/17 | 00:10 | 43.81N | 160.00E | RS92-SGP | K3943947 | 387 | -0.39 | -0.16 | -0.3 | -0.3 | |
| 15101712.dat | 2015/10/17 | 11:30 | 42.84N | 157.67E | RS92-SGP | K4124462 | 375 | -0.69 | -0.22 | -0.4 | -0.4 | |
| 15101800.dat | 2015/10/17 | 23:30 | 41.79N | 154.88E | RS41-SGP | L2130511 | 150 | 0.96 | N/A | 0.3 | N/A | |
| 15101812.dat | 2015/10/18 | 11:29 | 40.83N | 152.01E | RS92-SGP | K4124157 | 376 | -0.55 | -0.16 | -0.6 | -0.8 | |
| 15101900.dat | 2015/10/18 | 23:31 | 40.19N | 149.28E | RS92-SGP | K4033243 | 382 | -1.02 | -0.14 | -0.2 | -0.2 | |
| 15101912.dat | 2015/10/19 | 11:30 | 40.26N | 146.26E | RS92-SGP | K4123652 | 377 | 0.09 | -0.21 | -0.2 | -0.2 | |
| 15102000.dat | 2015/10/19 | 23:29 | 40.38N | 143.18E | RS92-SGP | K4124454 | 377 | -0.27 | -0.11 | -0.3 | -0.3 | |

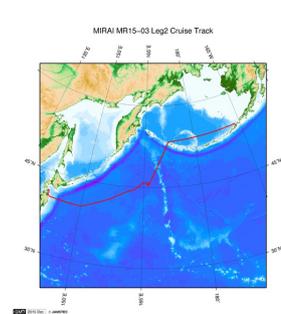
Reference

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, MW41(after 2015 Jun.) [VAISALA, Finland]
· Launcher Location: 22m (from base line)

Related Information



[Enlarge Image](#)

MR15-03 Leg2

Ship Name: MIRAI
Period: 2015-10-09 - 2015-10-21
Chief Scientist: Shigeto Nishino (JAMSTEC)
Project Name: [Arctic Ocean Climate System Research]
Proposal ▶ Observational studies on the Arctic Ocean climate and ecosystem variability
Title:

Update History

| | |
|------------|-------------------------------------|
| 2017-10-21 | 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 国立研究開発法人
海洋研究開発機構
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

MIRAI MR15-03 Leg2 Radiosonde

Last Modified: 2017-10-21

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

Cruise ID: [MR15-03 Leg2](#)

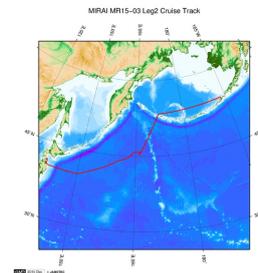
Radiosonde: Processed (DMO)-Corrected

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



MR15-03 Leg2

Ship Name: MIRAI

Period: 2015-10-09 - 2015-10-21

Chief Scientist: Shigeto Nishino (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Observational studies on the Arctic Ocean climate and ecosystem variability

Title:

[Enlarge Image](#)

Update History

2017-10-21 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 MR15-03 Leg2 Radiosonde

Last Modified: 2017-10-21

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

Cruise ID: [MR15-03 Leg2](#)

Radiosonde: Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

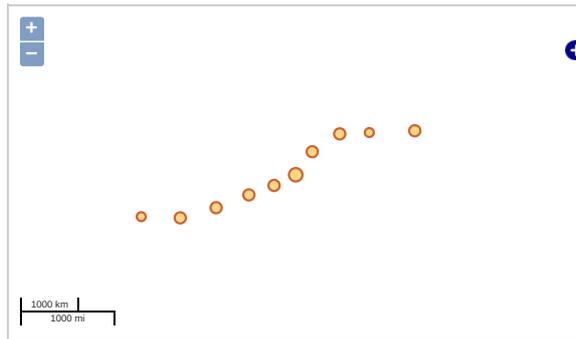
Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

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

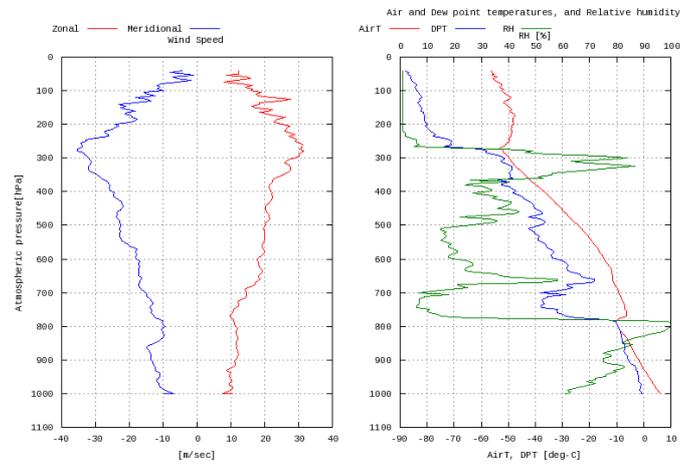
1. Clicking the icon displays a balloon with observation information.
2. Then click the observation name, figures will be displayed.



Figures

15101100

MR15-03 Leg2: 15101100
Radiosonde

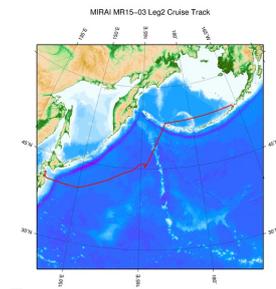


Data List

- File names
- 15101100.dat
- 15101112.dat
- 15101200.dat
- 15101212.dat
- 15101300.dat
- 15101312.dat
- 15101400.dat
- 15101412.dat
- 15101500.dat
- 15101512.dat
- 15101600.dat
- 15101612.dat
- 15101701.dat
- 15101712.dat

| | |
|--------------------------|--------------|
| <input type="checkbox"/> | 1510008.dat |
| <input type="checkbox"/> | 15101812.dat |
| <input type="checkbox"/> | 15101900.dat |
| <input type="checkbox"/> | 15101912.dat |
| <input type="checkbox"/> | 15102000.dat |

Related Information



[Enlarge Image](#)

MR15-03 Leg2

Ship Name: MIRAI
 Period: 2015-10-09 - 2015-10-21
 Chief Scientist: Shigeto Nishino (JAMSTEC)
 Project Name: [Arctic Ocean Climate System Research]
 Proposal ▶ Observational studies on the Arctic Ocean climate and ecosystem variability
 Title:

Update History

2017-10-21 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:

