

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	

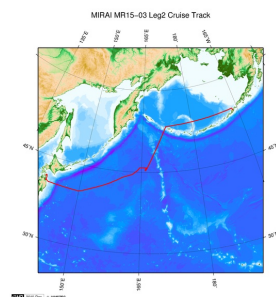
Reference

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.
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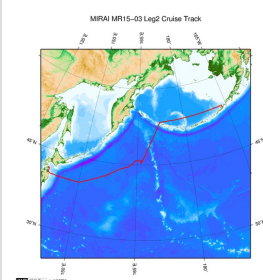
Radiosonde: Processed (DMO)-Corrected

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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



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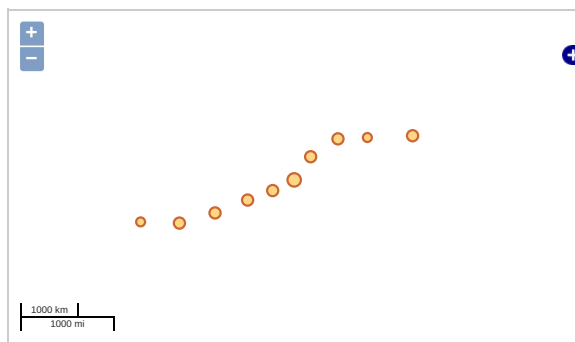
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Observation Map

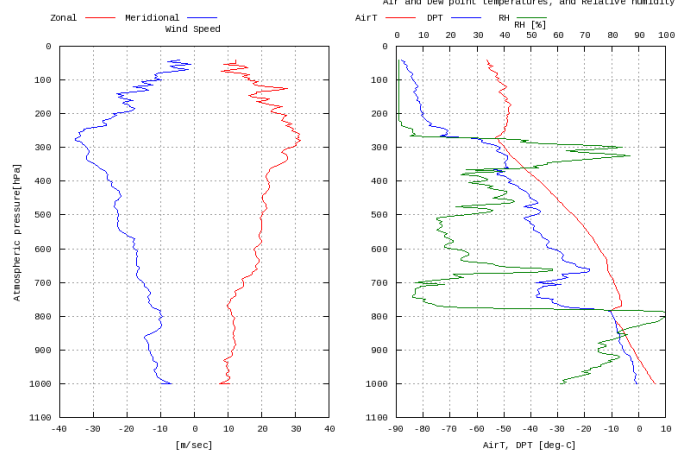
- Clicking the icon displays a balloon with observation information.
- Then click the observation name, figures will be displayed.



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

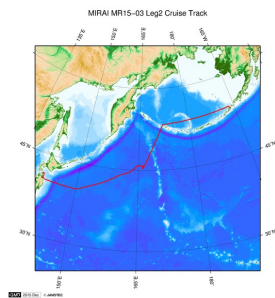
☐ 15101612.dat

☐ 15101701.dat

☐ 15101712.dat

<input type="checkbox"/>	15100000.dat
<input type="checkbox"/>	15101812.dat
<input type="checkbox"/>	15101900.dat
<input type="checkbox"/>	15101912.dat
<input type="checkbox"/>	15102000.dat

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