

## MIRAI MR10-05 Leg2 Radiosonde

Last Modified: 2017-08-23

ReadMe Observation Data Data Format

Cruise ID: [MR10-05 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/MR10-05\\_leg1-2\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR10-05_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

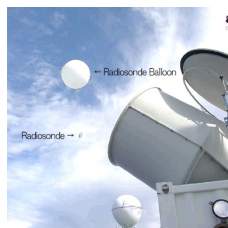
Instrument:

Radiosonde (MR11-03 - MR15-E01 Leg3)



Instrument:

Radiosonde (MR04-03 Leg1 - MR11-02)



Instrument:

Radiosonde (- MR04-02)



### Overview

#### Correction method

- Data observed by RS80 sensors

- 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. \(2002\)](#).

- Data observed by RS92 sensors

- Correction of ship body warming

Same as above

- Correction of Dry Bias

Humidity data observed by RS92 sensors contain dry bias mainly due to solar radiation error in daytime. We have corrected the humidity data observed by RS92 sensors using [Yoneyama et al.\(2008\)](#). method. RS92 sensors have been used since MR04-03 cruise.

#### 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[%]	
10090506.dat	2010/09/05	05:30	66.96N	168.84W	E4814370	285	0.71	-0.08	-0.18	-0.15	
10090512.dat	2010/09/05	11:30	68.00N	168.84W	E4814371	286	-0.42	-0.13	-0.11	-0.13	
10090518.dat	2010/09/05	17:30	69.00N	168.84W	E4843960	283	0.03	-0.18	-0.13	-0.12	
10090600.dat	2010/09/05	23:30	70.00N	168.00W	E4814380	286	-0.48	-0.15	-0.10	-0.15	
10090603.dat	2010/09/06	02:30	70.00N	168.01W	E4950056	275	-0.01	-0.19	-0.08	-0.05	
10090606.dat	2010/09/06	05:30	70.50N	168.00W	E4814356	286	0.21	-0.16	-0.07	-0.06	
10090609.dat	2010/09/06	08:30	71.00N	168.00W	E4814367	286	-0.80	-0.26	-0.25	-0.16	
10090612.dat	2010/09/06	11:30	71.49N	168.03W	E4950048	276	-0.14	-0.21	-0.15	-0.14	
10090615.dat	2010/09/06	14:30	72.00N	168.00W	E4814351	287	-1.19	-0.13	-0.05	-0.02	
10090618.dat	2010/09/06	17:30	72.48N	167.99W	F1854835	3785	0.13	-0.17	-0.01	-0.03	
10090621.dat	2010/09/06	20:30	73.00N	168.01W	F1854870	3785	-0.36	-0.10	-0.10	-0.08	
10090700.dat	2010/09/06	23:30	73.49N	168.03W	F1854869	3785	-0.28	-0.22	-0.15	-0.10	

	Launch time (UTC)	Altitude (m)	Latitude (°N)	Longitude (°W)	Sensor information	Pressure (hPa)	Calibration offset	Result	
10090703.dat	2010/09/07 02:30	74.00N	168.00W	F1854851	3785	-0.13	-0.13	-0.08	
10090706.dat	2010/09/07 05:30	74.47N	168.00W	F1854843	3785	-0.02	-0.19	-0.09	Note
10090709.dat	2010/09/07 09:30	74.47N	168.00W	F1854847	3785	-0.25	-0.17	-0.07	
10090712.dat	2010/09/07 11:30	74.80N	169.46W	F1874310	3784	-0.13	-0.20	-0.08	
10090718.dat	2010/09/07 17:30	74.60N	170.94W	F1874315	3784	-0.10	-0.16	-0.06	
10090800.dat	2010/09/07 23:30	74.61N	170.99W	F1854836	3786	-0.05	-0.11	-0.08	
10090806.dat	2010/09/08 05:30	74.52N	168.99W	F1854848	3786	0.06	-0.09	-0.05	
10090812.dat	2010/09/08 11:30	74.32N	164.04W	F1834123	3788	-0.61	-0.18	-0.03	
10090818.dat	2010/09/08 17:30	74.05N	163.09W	F1834126	3789	-0.01	-0.23	-0.06	
10090900.dat	2010/09/08 23:30	73.60N	163.22W	F1854861	3787	-0.95	-0.17	-0.05	
10090906.dat	2010/09/09 05:30	73.09N	158.91W	F1874311	3785	-0.24	-0.22	-0.08	
10090912.dat	2010/09/09 11:30	72.25N	155.26W	F1914004	3784	-0.32	-0.12	-0.01	
10090918.dat	2010/09/09 17:30	71.96N	153.78W	F1844990	3789	-0.69	-0.19	-0.05	
10091000.dat	2010/09/09 23:30	71.52N	151.72W	F1864337	3787	-0.40	-0.18	-0.02	
10091006.dat	2010/09/10 05:30	71.37N	152.06W	F1844991	3789	-0.39	-0.18	-0.05	
10091012.dat	2010/09/10 11:30	71.94N	150.25W	F1864339	3788	0.18	-0.19	-0.01	
10091018.dat	2010/09/10 17:30	71.83N	150.66W	F1844757	3790	-0.01	-0.17	-0.10	
10091100.dat	2010/09/10 23:30	71.50N	151.66W	F1864343	3788	-0.47	-0.22	-0.08	
10091106.dat	2010/09/11 05:30	71.37N	152.16W	F1844738	3790	-0.07	-0.19	-0.06	
10091112.dat	2010/09/11 11:30	71.74N	155.23W	F1844968	3790	-0.19	-0.16	-0.03	
10091118.dat	2010/09/11 17:30	71.73N	155.16W	F1844764	3791	-0.38	-0.19	-0.12	
10091200.dat	2010/09/11 23:30	71.67N	155.00W	F1844754	3791	-0.03	-0.12	0.01	
10091206.dat	2010/09/12 05:30	71.80N	155.33W	F1844986	3791	-0.32	-0.21	0.04	
10091212.dat	2010/09/12 11:30	71.79N	155.31W	F1844755	3792	-0.57	-0.18	-0.02	
10091218.dat	2010/09/12 17:30	71.79N	155.34W	F1844988	3792	-0.52	-0.17	0.01	
10091300.dat	2010/09/12 23:30	71.75N	154.98W	F1864322	3790	0.36	-0.17	0.07	
10091306.dat	2010/09/13 05:30	71.53N	157.63W	F1844980	3792	-0.33	-0.21	0.03	
10091312.dat	2010/09/13 11:30	71.08N	159.89W	F1864336	3790	-0.12	-0.19	0.05	
10091315.dat	2010/09/13 14:30	71.00N	162.00W	F1844979	3793	-0.17	-0.35	0.03	
10091318.dat	2010/09/13 17:30	71.48N	162.00W	F1844961	3793	-0.57	-0.18	0.02	
10091321.dat	2010/09/13 20:30	72.00N	162.00W	F1844969	3793	-0.39	-0.07	-0.05	
10091400.dat	2010/09/13 23:30	72.48N	161.98W	F1844983	3793	-0.37	-0.23	0.02	
10091403.dat	2010/09/14 02:30	73.00N	162.00W	F1844767	3793	-0.21	-0.27	-0.06	
10091406.dat	2010/09/14 05:30	73.52N	161.99W	F1844748	3793	-0.04	-0.16	0.01	
10091409.dat	2010/09/14 08:30	74.00N	162.00W	F1844758	3793	-0.36	-0.10	-0.42	
10091412.dat	2010/09/14 11:30	74.48N	161.96W	F1844966	3794	-0.01	-0.18	-0.13	
10091415.dat	2010/09/14 14:30	74.99N	161.97W	F1845006	3794	-0.47	-0.18	0.00	
10091418.dat	2010/09/14 17:30	75.44N	162.36W	F1844998	3794	-0.16	-0.22	0.02	
10091421.dat	2010/09/14 20:30	76.07N	163.46W	F1844747	3794	-1.84	-0.12	0.00	
10091500.dat	2010/09/14 23:30	76.71N	164.66W	F1845013	3794	-0.31	-0.52	-0.03	
10091503.dat	2010/09/15 02:30	77.21N	166.15W	F1844978	3794	-0.44	-0.16	0.02	
10091506.dat	2010/09/15 05:30	77.74N	167.95W	F1844965	3794	-0.37	-0.16	-0.03	
10091512.dat	2010/09/15 11:30	77.88N	168.08W	F1844746	3794	-0.09	-0.21	-0.03	
10091518.dat	2010/09/15 17:30	78.27N	169.86W	F1844981	3795	-0.33	-0.12	-0.01	
10091600.dat	2010/09/15 23:30	78.28N	170.01W	F1844963	3795	-0.31	-0.14	-0.07	
10091606.dat	2010/09/16 05:30	78.23N	169.84W	F1844987	3795	-0.56	-0.18	-0.07	
10091612.dat	2010/09/16 11:30	78.24N	169.94W	F1844756	3796	-0.41	-0.18	0.00	
10091618.dat	2010/09/16 17:30	78.07N	169.34W	F1845001	3796	-0.68	-0.20	-0.11	
10091700.dat	2010/09/16 23:30	77.63N	167.48W	F1844970	3796	-0.98	-0.25	-0.38	
10091706.dat	2010/09/17 05:30	76.75N	169.10W	F1844972	3796	-0.63	-0.24	0.01	
10091712.dat	2010/09/17 11:30	76.00N	172.53W	F1874555	3794	-0.40	-0.10	-0.05	
10091718.dat	2010/09/17 17:30	76.00N	175.25W	F1844973	3797	-0.61	-0.19	-0.07	
10091721.dat	2010/09/17 20:30	76.00N	175.26W	F1864362	3795	-0.29	-0.18	-0.05	
10091800.dat	2010/09/17 23:30	76.00N	175.00W	F1845255	3797	-0.37	-0.22	-0.10	
10091803.dat	2010/09/18 02:30	76.01N	174.98W	F1845244	3797	-0.09	-0.84	-0.04	
10091806.dat	2010/09/18 05:30	76.22N	177.61W	F1845263	3797	-0.15	-0.22	-0.09	
10091809.dat	2010/09/18 08:30	76.41N	179.96W	F1864354	3795	0.01	-0.15	-0.08	
10091812.dat	2010/09/18 11:30	76.45N	179.70E	F1845252	3798	-0.42	-0.23	0.00	
10091815.dat	2010/09/18 14:30	76.31N	179.43E	F1844996	3798	-0.36	-0.16	-0.04	
10091818.dat	2010/09/18 17:30	76.00N	178.91E	F1845247	3798	-0.25	-0.14	-0.05	
10091821.dat	2010/09/18 20:30	75.58N	178.42E	F1864326	3796	-0.48	-0.17	-0.02	
10091900.dat	2010/09/18 23:30	75.41N	178.21E	F1845264	3798	-0.37	-0.14	-0.12	
10091903.dat	2010/09/19 02:30	75.14N	177.91E	F1864342	3796	-0.43	-0.25	-0.10	
10091906.dat	2010/09/19 05:30	75.00N	177.82E	F1864365	3796	-0.36	-0.21	0.00	
10091912.dat	2010/09/19 11:30	74.99N	179.17W	F1845242	3798	-0.54	-0.18	-0.03	
10091918.dat	2010/09/19 17:30	75.00N	176.01W	F1864363	3797	-0.28	-0.12	-0.03	
10092000.dat	2010/09/19 23:30	75.24N	174.02W	F1864345	3797	-0.27	-0.23	-0.09	
10092006.dat	2010/09/20 05:30	74.91N	172.73W	F1845248	3799	-0.15	-0.13	-0.05	
10092012.dat	2010/09/20 11:30	74.64N	171.04W	F1864327	3798	-0.32	-0.15	0.04	
10092018.dat	2010/09/20 17:30	74.60N	171.00W	F1864355	3798	-0.10	-0.21	-0.07	
10092100.dat	2010/09/20 23:30	74.60N	171.00W	F1864376	3798	-0.39	-0.18	-0.12	
10092106.dat	2010/09/21 05:30	75.12N	173.28W	F1864367	3798	-0.18	-0.15	-0.01	

10092112.dat	2010/09/21 11:30	75.41N	174.10W	F1864358	3798	-0.23	-0.13	-0.04	-0.05	
10092118.dat	2010/09/21 17:30	75.81N	174.01W	F1864360	3801	-0.01	-0.18	-0.13	-0.14	
10092200.dat	2010/09/21 23:30	76.25N	173.99W	F1845251	3801	-0.57	-0.20	-0.08	-0.09	Note
10092206.dat	2010/09/22 01:30	76.25N	173.99W	F1845251	3801	-0.41	-0.20	-0.11	-0.08	
10092212.dat	2010/09/22 11:30	76.65N	171.35W	F1864340	3800	-0.25	-0.18	-0.06	-0.06	
10092218.dat	2010/09/22 17:30	77.08N	170.00W	F1844976	3802	-0.76	-0.14	-0.08	-0.08	
10092300.dat	2010/09/22 23:30	77.14N	168.93W	F1864331	3800	-0.17	-0.20	0.05	0.05	
10092303.dat	2010/09/23 02:30	77.18N	168.38W	F1864350	3800	-0.42	-0.03	-0.12	-0.11	
10092306.dat	2010/09/23 05:30	77.24N	167.06W	F1864335	3800	-0.42	-0.03	-0.12	-0.11	
10092309.dat	2010/09/23 08:30	77.27N	166.32W	F1864349	3800	-0.29	-0.13	-0.08	-0.06	
10092312.dat	2010/09/23 11:30	77.79N	165.35W	F1864328	3800	0.15	-0.20	0.00	-0.05	
10092315.dat	2010/09/23 14:30	78.27N	164.98W	F1864360	3801	-0.08	-0.19	-0.06	-0.06	
10092318.dat	2010/09/23 17:30	78.71N	164.99W	F1844765	3803	-0.37	-0.17	-0.03	-0.05	
10092321.dat	2010/09/23 20:30	79.12N	165.00W	F1844761	3803	-0.83	-0.17	-0.06	-0.12	
10092400.dat	2010/09/23 23:30	79.19N	164.96W	F1844753	3803	-0.48	-0.17	-0.07	-0.06	
10092403.dat	2010/09/24 02:30	78.96N	164.99W	F1844745	3803	-0.60	-0.18	-0.08	-0.06	
10092406.dat	2010/09/24 05:30	78.87N	165.01W	F1844759	3803	-0.13	-0.20	-0.08	-0.07	
10092409.dat	2010/09/24 08:30	78.59N	164.96W	F1864333	3801	-0.56	-0.24	0.12	0.11	
10092412.dat	2010/09/24 11:30	77.80N	165.05W	F1864341	3802	-0.59	-0.27	-0.01	-0.03	
10092415.dat	2010/09/24 14:30	77.84N	165.15W	F1844760	3804	-0.05	-0.12	-0.05	-0.05	
10092418.dat	2010/09/24 17:30	77.84N	165.25W	F1864351	3802	-1.66	-0.13	-0.01	-0.01	
10092421.dat	2010/09/24 20:30	77.76N	163.79W	F1845241	3804	-1.40	-0.16	-0.04	-0.06	
10092500.dat	2010/09/24 23:30	77.76N	161.99W	F1864356	3802	-0.35	-0.21	-0.05	-0.05	
10092503.dat	2010/09/25 02:30	77.75N	161.96W	F1864346	3802	-0.12	-0.23	-0.05	-0.04	
10092506.dat	2010/09/25 05:30	77.77N	160.01W	F1864373	3802	-0.33	-0.13	0.00	-0.01	
10092509.dat	2010/09/25 08:30	77.37N	160.04W	F1864368	3802	-0.43	-0.22	-0.01	0.01	
10092512.dat	2010/09/25 11:30	76.97N	160.07W	F1874374	3802	-1.04	-0.14	0.02	0.01	
10092515.dat	2010/09/25 14:30	76.86N	159.12W	F1845239	3805	-0.46	-0.27	-0.06	-0.06	
10092518.dat	2010/09/25 17:30	76.69N	157.60W	F1845262	3805	-0.41	-0.19	-0.06	-0.04	
10092521.dat	2010/09/25 20:30	76.62N	157.05W	F1864359	3803	-0.19	-0.19	-0.13	-0.14	
10092600.dat	2010/09/25 23:30	76.51N	155.58W	F1874370	3802	-0.42	-0.19	0.01	0.00	
10092603.dat	2010/09/26 02:30	76.38N	154.63W	F1874368	3802	-0.28	-0.20	0.07	0.03	
10092606.dat	2010/09/26 05:30	76.49N	154.81W	F1845237	3805	-0.36	-0.19	-0.04	-0.08	
10092609.dat	2010/09/26 08:30	76.39N	154.75W	F1845246	3805	-0.20	-0.13	-0.05	-0.05	
10092612.dat	2010/09/26 11:30	75.97N	154.74W	F1864348	3804	-0.07	-0.23	-0.02	-0.03	
10092615.dat	2010/09/26 14:30	75.51N	155.27W	F1874358	3803	-0.24	-0.15	-0.03	-0.04	
10092618.dat	2010/09/26 17:30	75.53N	155.33W	F1874365	3803	-0.06	-0.23	-0.03	-0.05	
10092621.dat	2010/09/26 20:30	75.64N	156.18W	F1874373	3803	-0.54	-0.16	0.03	0.04	
10092700.dat	2010/09/26 23:30	75.66N	156.29W	F1874378	3803	-0.21	-0.19	-0.08	-0.10	
10092703.dat	2010/09/27 02:30	75.67N	156.49W	F1874375	3803	-0.10	-0.16	-0.06	-0.05	
10092706.dat	2010/09/27 05:30	75.75N	157.11W	F1874367	3803	-0.52	-0.21	-0.02	-0.03	
10092709.dat	2010/09/27 08:30	75.84N	158.22W	F1874369	3803	0.28	-0.21	-0.03	-0.04	
10092712.dat	2010/09/27 11:30	75.45N	160.00W	F1874366	3804	-0.27	-0.18	0.00	0.01	
10092715.dat	2010/09/27 14:30	75.03N	161.97W	F1874379	3804	-0.45	-0.21	0.00	0.07	
10092718.dat	2010/09/27 17:30	74.53N	162.02W	F1874355	3804	-0.17	-0.21	-0.08	-0.08	
10092721.dat	2010/09/27 20:30	74.03N	162.01W	F1874354	3804	-0.07	-0.05	-0.04	-0.03	
10092800.dat	2010/09/27 23:30	73.55N	162.03W	F1864364	3805	-0.28	-0.11	-0.04	-0.06	
10092803.dat	2010/09/28 02:30	73.02N	162.05W	F1874356	3804	-0.25	-0.25	-0.01	-0.02	
10092806.dat	2010/09/28 05:30	72.55N	162.01W	F1874364	3804	-0.46	-0.70	-0.09	-0.14	
10092809.dat	2010/09/28 08:30	72.04N	162.01W	F1845253	3807	-0.46	-0.70	-0.09	-0.14	
10092812.dat	2010/09/28 11:30	71.54N	162.02W	F1874346	3804	-0.12	-0.24	0.02	-0.01	
10092815.dat	2010/09/28 14:30	71.02N	162.04W	F1864372	3806	-0.20	-0.13	-0.03	-0.02	
10092818.dat	2010/09/28 17:30	71.02N	161.32W	F1874377	3805	-0.32	-0.20	-0.04	-0.06	
10092900.dat	2010/09/28 23:30	71.21N	157.80W	F1874371	3805	-1.27	-0.20	-0.05	-0.07	
10092906.dat	2010/09/29 05:30	71.50N	157.67W	F1874348	3805	-1.09	-0.18	-0.04	-0.07	
10092912.dat	2010/09/29 11:30	71.87N	155.53W	F1845254	3808	-0.07	-0.18	-0.07	-0.06	
10092918.dat	2010/09/29 17:30	71.81N	155.42W	F1874357	3806	-0.25	-0.22	-0.02	-0.02	
10093000.dat	2010/09/29 23:30	71.73N	155.11W	F1874383	3806	-0.45	-0.15	-0.08	-0.06	
10093006.dat	2010/09/30 05:30	72.01N	156.01W	F1854671	3808	-0.25	-0.22	-0.10	-0.10	
10093012.dat	2010/09/30 11:30	72.36N	158.66W	F1874376	3806	-0.04	-0.18	0.00	-0.01	
10093018.dat	2010/09/30 17:30	72.77N	159.14W	F1854648	3809	-0.21	-0.21	-0.09	-0.09	
10100100.dat	2010/09/30 23:30	73.00N	158.50W	F1854646	3809	-0.21	-0.19	-0.14	-0.15	
10100106.dat	2010/10/01 05:30	73.26N	157.68W	F1874568	3807	-0.47	-0.17	-0.11	-0.09	
10100112.dat	2010/10/01 11:30	73.49N	156.92W	F1874343	3808	-0.28	-0.15	0.00	0.03	
10100118.dat	2010/10/01 17:30	74.07N	155.33W	F1814077	3814	0.12	-0.23	-0.40	-0.42	
10100200.dat	2010/10/01 23:30	74.40N	157.00W	F1854653	3810	-1.34	-0.23	-0.09	-0.10	
10100206.dat	2010/10/02 05:30	74.68N	158.31W	F1854667	3810	-0.16	-0.20	-0.17	-0.18	
10100212.dat	2010/10/02 11:30	74.67N	161.02W	F1854655	3810	-0.17	-0.29	-0.07	-0.11	
10100218.dat	2010/10/02 17:30	74.38N	165.25W	F1854668	3811	-0.66	-0.14	-0.13	-0.12	
10100300.dat	2010/10/02 23:30	74.38N	165.27W	F1854657	3811	-0.36	-0.22	-0.09	-0.09	
10100306.dat	2010/10/03 05:30	73.98N	167.60W	F1874353	3809	0.64	-0.22	-0.04	-0.02	
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10100318.dat	2010/10/03 17:30	75.00N	162.01W	F1854650	3812	-0.26	-0.24	-0.03	-0.01	

10100400.dat	2010/10/04	05:30	75.00N	161.99W	F1854655	3812	-0.40	-0.23	-0.07	-0.04	
10100406.dat	2010/10/04	05:30	75.48N	163.42W	F1854655	3812	-0.06	-0.18	-0.03	0.00	
Data file	2010/10/04	11:30	75.74N	165.48W	F1854656	3812	-0.82	-0.23	0.09	0.10	Note
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10100418.dat	2010/10/04	17:30	76.24N	166.46W	F1874514	3811	-0.20	-0.18	-0.09	-0.09	
10100421.dat	2010/10/04	20:30	76.62N	168.09W	F1854661	3813	-0.27	-0.26	-0.03	-0.04	
10100500.dat	2010/10/04	23:30	76.57N	167.48W	F1874361	3811	-0.18	-0.22	0.05	0.05	
10100503.dat	2010/10/05	02:30	76.52N	166.87W	F1854660	3813	-0.09	-0.24	-0.09	-0.08	
10100506.dat	2010/10/05	05:30	76.42N	165.70W	F1854662	3813	-0.26	-0.29	-0.04	-0.03	
10100509.dat	2010/10/05	08:30	76.02N	164.28W	F1874363	3811	-0.28	-0.19	-0.13	-0.10	Wind mode;None
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10100600.dat	2010/10/05	23:30	75.00N	165.65W	F1845261	3815	-0.42	-0.22	-0.03	-0.04	
10100606.dat	2010/10/06	05:30	75.00N	168.49W	F1874381	3812	-0.20	-0.21	0.00	-0.01	
10100612.dat	2010/10/06	11:30	74.72N	168.41W	F1845245	3816	-0.28	-0.16	0.00	-0.01	
10100618.dat	2010/10/06	17:30	74.06N	164.64W	F1854674	3815	-0.09	-0.16	-0.06	-0.07	
10100700.dat	2010/10/06	23:30	73.71N	162.76W	F1874351	3813	-0.24	-0.14	-0.02	0.00	
10100706.dat	2010/10/07	05:30	73.06N	163.75W	F1874349	3813	-0.32	-0.15	0.05	0.01	
10100712.dat	2010/10/07	11:30	73.48N	161.00W	F1874340	3814	-0.40	-0.21	0.08	0.11	
10100718.dat	2010/10/07	17:30	73.79N	159.00W	F1874352	3814	-0.15	-0.16	0.02	0.03	
10100800.dat	2010/10/07	23:30	73.74N	157.29W	F1874347	3814	0.02	-0.16	-0.03	-0.04	
10100806.dat	2010/10/08	05:30	73.63N	157.83W	F1874359	3814	-0.29	-0.17	-0.05	-0.06	
10100812.dat	2010/10/08	11:30	73.74N	158.43W	F1854676	3816	-0.51	-0.17	-0.11	-0.10	
10100818.dat	2010/10/08	17:30	73.91N	159.22W	F1874380	3815	-0.42	-0.19	-0.05	-0.06	
10100821.dat	2010/10/08	20:30	74.10N	160.20W	F1854859	3817	-0.52	-0.26	-0.10	-0.10	
10100900.dat	2010/10/08	23:30	74.04N	158.02W	F1854857	3817	-0.97	-0.22	-0.16	-0.16	
10100903.dat	2010/10/09	02:30	74.02N	157.50W	F1854841	3817	-0.63	-0.12	-0.20	-0.19	
10100906.dat	2010/10/09	05:30	74.02N	157.51W	F1834124	3819	-0.59	-0.19	-0.11	-0.11	
10100909.dat	2010/10/09	08:30	73.92N	158.15W	F1854839	3817	-0.48	-0.23	-0.13	-0.12	
10100912.dat	2010/10/09	11:30	73.87N	158.41W	F1854840	3818	-0.33	-0.18	-0.22	-0.15	
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10101003.dat	2010/10/10	02:30	74.34N	162.37W	F1854862	3818	-0.60	-0.18	-0.03	-0.04	
10101006.dat	2010/10/10	05:30	74.50N	164.49W	F1854842	3818	-0.32	-0.17	-0.09	-0.08	
10101009.dat	2010/10/10	08:30	74.62N	163.75W	F1854845	3818	-0.48	-0.17	-0.07	-0.05	
10101012.dat	2010/10/10	11:30	74.75N	163.00W	F1854872	3818	-0.17	-0.25	-0.06	-0.06	
10101015.dat	2010/10/10	14:30	74.99N	161.98W	F1854871	3819	-0.11	-0.14	-0.08	-0.09	
10101018.dat	2010/10/10	17:30	74.50N	162.00W	F1854860	3819	-0.16	-0.25	-0.06	-0.05	
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10101100.dat	2010/10/10	23:30	73.52N	161.98W	F1854854	3819	-0.16	-0.24	-0.05	-0.03	
10101103.dat	2010/10/11	02:30	73.00N	162.00W	F1854868	3819	-0.18	-0.27	-0.08	-0.36	
10101106.dat	2010/10/11	05:30	72.50N	162.00W	F1854882	3819	-0.23	-0.22	-0.13	-0.13	
10101109.dat	2010/10/11	08:30	72.04N	162.01W	F1854867	3819	-0.37	-0.23	-0.06	-0.07	
10101112.dat	2010/10/11	11:30	71.52N	162.01W	F1854852	3820	-0.15	-0.22	-0.07	-0.07	
10101115.dat	2010/10/11	14:30	71.00N	162.00W	F1854874	3820	-0.25	-0.20	-0.15	-0.17	
10101118.dat	2010/10/11	17:30	70.88N	162.65W	F1854885	3820	-0.37	-0.24	-0.09	-0.10	
10101200.dat	2010/10/11	23:30	70.38N	165.49W	F1854865	3820	-0.40	-0.20	-0.08	-0.07	
10101206.dat	2010/10/12	05:30	69.77N	168.37W	F1854881	3820	-0.27	-0.23	-0.10	-0.12	
10101212.dat	2010/10/12	11:30	69.51N	168.68W	F1854887	3820	-0.36	-0.18	-0.09	-0.08	
10101218.dat	2010/10/12	17:30	68.50N	168.83W	F1854886	3821	-0.42	-0.22	-0.10	-0.09	
10101221.dat	2010/10/12	20:30	68.00N	168.83W	F1854866	3821	-0.12	-0.16	-0.10	-0.09	
10101300.dat	2010/10/12	23:30	67.53N	168.82W	F1854853	3821	-0.46	-0.19	-0.08	-0.09	
10101303.dat	2010/10/13	02:30	67.00N	168.83W	F1854856	3821	-0.38	-0.23	-0.10	-0.10	
10101306.dat	2010/10/13	05:30	66.55N	168.76W	F1874030	3819	-0.55	-0.23	-0.08	-0.07	
10101309.dat	2010/10/13	08:30	66.45N	168.78W	F1854878	3821	-0.15	-0.20	-0.18	-0.16	
10101312.dat	2010/10/13	11:30	66.31N	168.76W	F1854875	3822	-0.42	-0.23	-0.14	-0.16	

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.
- K. Yoneyama, M.fujita, N.Sato, M.Fujiwara, Y.Inai, and F.Hasebe, 2008:Correction for Radiation Dry Bias Found in RS92 Radiosonde Data during the MISMO Field Experiment.[PDF:400kbyte] SOLA, Vol.4, 13-16.

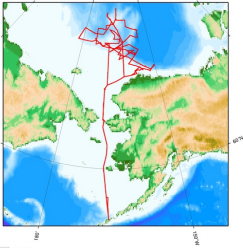
Others


- Main processor: DigiCORAlll. MW21(from 2004 Jul. to 2011 Mar.) [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

MIRAI MR10-05 Leg2 Cruise Track



 [Enlarge Image](#)

**MR10-05 Leg2**

Ship Name: MIRAI  
Period: 2010-09-02 - 2010-10-16  
Chief Scientist: Motoyo Ito (JAMSTEC)  
Project Name: [Arctic Ocean Climate System Reaserch]  
Proposal ▶ Arctic Climate Oceanography  
Title:

Update History	
2017-08-23	An observation data was registerd.
2014-07-11	An observation data was registerd.
2014-06-14	An observation data was registerd.
2014-06-13	An observation data was registerd.
2014-03-21	An observation data was registerd.

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**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:

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**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

## MIRAI MR10-05 Leg2 Radiosonde

Last Modified: 2017-08-23

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

Cruise ID: [MR10-05 Leg2](#)

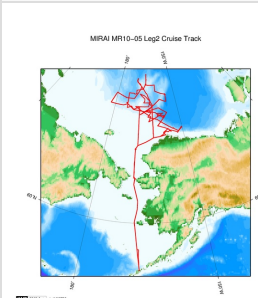
Radiosonde: Processed (DMO)-Corrected

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](#)

#### MR10-05 Leg2

Ship Name: MIRAI

Period: 2010-09-02 - 2010-10-16

Chief Scientist: Motoyo Ito (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Arctic Climate Oceanography

Title:

### Update History

2017-08-23	An observation data was registered.
2014-07-11	An observation data was registered.
2014-06-14	An observation data was registered.
2014-06-13	An observation data was registered.
2014-03-21	An observation data was registered.

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#### Data

[Map Search](#)

[Data Tree](#)

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#### 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 MR10-05 Leg2 Radiosonde

Last Modified: 2017-08-23

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

Cruise ID: [MR10-05 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.



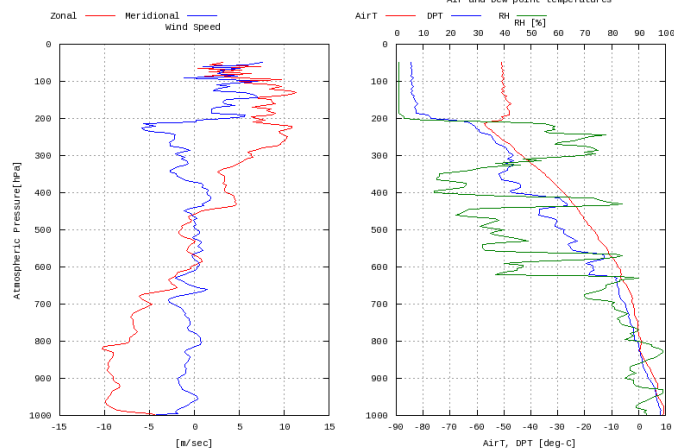
— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

Imagery reproduced from ...

### Figures

10090506

MR10-05 Leg2:10090506  
Radiosonde



### Data List

☐ File names

☐ 10090506.dat

☐ 10090512.dat

☐ 10090518.dat

☐ 10090600.dat

☐ 10090603.dat

☐ 10090606.dat

☐ 10090609.dat

☐ 10090612.dat

☐ 10090615.dat

☐ 10090618.dat

☐ 10090621.dat






































































☐ 10090700.dat

☐ 10090703.dat

☐ 10090706.dat

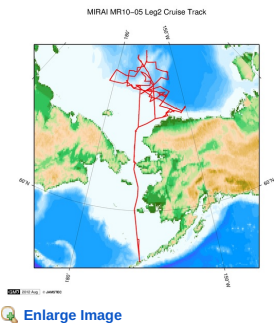
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	10091912.dat
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	10092300.dat



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	10093012.dat
	10093018.dat
	10100100.dat
	10100106.dat
	10100112.dat
	10100118.dat
	10100200.dat
	10100206.dat
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	10100300.dat
	10100306.dat
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	10100400.dat
	10100406.dat
	10100412.dat
	10100418.dat
	10100421.dat
	10100500.dat
	10100503.dat
	10100506.dat
	10100509.dat
	10100512.dat
	10100515.dat

File names
10100518.dat
10100600.dat
10100606.dat
10100612.dat
10100618.dat
10100700.dat
10100706.dat
10100712.dat
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10100900.dat
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10101000.dat
10101003.dat
10101006.dat
10101009.dat
10101012.dat
10101015.dat
10101018.dat
10101021.dat
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10101200.dat
10101206.dat
10101212.dat
10101218.dat
10101221.dat
10101300.dat
10101303.dat
10101306.dat
10101309.dat
10101312.dat

#### Related Information



**MR10-05 Leg2**  
 Ship Name: MIRAI  
 Period: 2010-09-02 - 2010-10-16  
 Chief Scientist: Motoyo Ito (JAMSTEC)  
 Project Name: [Arctic Ocean Climate System Reaserch]  
 Proposal ▶ Arctic Climate Oceanography  
 Title:

#### Update History

2017-08-23	An observation data was registerd.
2014-07-11	An observation data was registerd.
2014-06-14	An observation data was registerd.
2014-06-13	An observation data was registerd.
2014-03-21	An observation data was registerd.

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 Site Policy  
 Privacy Policy  
 Application for Data and Samples  
 Data Policy

Lists  
 Publication List  
 Amount of Public Info.  
 Data  
 Map Search

Information of the Ships  
 NATSUSHIMA  
 KAIYO  
 YOKOSUKA  
 MIRAI  
 KAIREI

Information of the Submersibles  
 KAIKO  
 SHINKAI 2000  
 SHINKAI 6500  
 DEEP TOW

Go to a Cruise Information

Cruise ID:

Go to a Dive Information

What's New  
Update History  
Feeds

Data Tree  
Detailed Search

CHIKYU  
KAIMEI  
SHINSEI MARU  
HAKUHO MARU

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

Dive ID:

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