

## MIRAI MR09-03 Leg2 Radiosonde

Last Modified: 2017-08-23

ReadMe Observation Data Data Format

Cruise ID: **MR09-03 Leg2**

Radiosonde: Processed (DMO)-Corrected

Data Policy: **JAMSTEC**

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

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/MR09-03\\_leg1-3\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR09-03_leg1-3_all.pdf)

### For Using Data

Principal Investigator

Data Management Office

Use Constraints

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

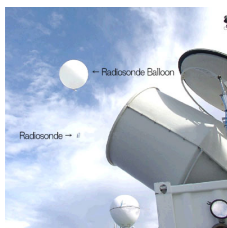
Data Citation

See [Terms and Conditions](#) about data citation.

### Instrument

Instrument:

Radiosonde (MR04-03 Leg1 - MR11-02)



### 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[%]	
09091006.dat	2009/09/10	05:30	65.95N	168.48W	E1740151	139	0.84	-0.35	-0.35	-0.28	
09091012.dat	2009/09/10	11:30	67.07N	168.35W	E0553991	222	1.23	-0.44	0.04	0.06	
09091018.dat	2009/09/10	17:30	68.11N	168.32W	E0553986	223	0.89	-0.31	-0.21	-0.21	
09091100.dat	2009/09/10	23:30	69.28N	168.13W	E0554004	223	1.07	-0.37	-0.19	-0.21	
09091106.dat	2009/09/11	05:30	70.29N	168.01W	E0553987	223	0.86	-0.34	-0.31	-0.27	
09091112.dat	2009/09/11	11:30	71.43N	168.04W	E0553988	224	0.94	-0.33	-0.18	-0.21	
09091118.dat	2009/09/11	17:30	72.42N	168.03W	E0553985	224	0.67	-0.45	-0.29	-0.23	
09091200.dat	2009/09/11	23:30	73.25N	168.02W	E0553982	224	0.67	-0.30	-0.22	-0.26	
09091206.dat	2009/09/12	05:30	74.13N	168.66W	E0554014	224	0.97	-0.33	-0.26	-0.23	
09091212.dat	2009/09/12	11:30	74.68N	171.50W	E0553971	224	0.79	-0.27	-0.26	-0.24	Snow
09091218.dat	2009/09/12	17:30	75.18N	172.91W	E0553963	225	0.93	-0.31	-0.30	-0.27	Snow
09091300.dat	2009/09/12	23:30	74.99N	172.54W	E0554005	225	0.86	-0.33	-0.28	-0.27	
09091306.dat	2009/09/13	05:30	75.34N	171.02W	E0554012	225	0.80	-0.29	-0.30	-0.30	

09091312.dat	2009/09/12	23:30	75.34N	171.03W	E0630222	1.15	-0.28	-0.25	-0.27	
09091318.dat	2009/09/13	17:30	74.94N	171.01W	E0630223	1.01	-0.30	-0.25	-0.24	
09091400.dat	2009/09/13	23:30	74.60N	170.94W	E0553993	226	-0.35	-0.35	-0.35	
09091406.dat	2009/09/14	05:30	74.80N	169.50W	E0613016	223	-0.32	-0.32	-0.32	
09091412.dat	2009/09/14	11:30	75.26N	166.81W	E0553981	226	0.79	-0.27	-0.26	
09091418.dat	2009/09/14	17:30	75.48N	165.69W	E0553994	227	0.88	-0.20	-0.19	
09091500.dat	2009/09/14	23:30	75.47N	165.67W	E0613024	224	1.14	-0.38	-0.30	
09091506.dat	2009/09/15	05:30	76.05N	165.70W	E0613040	224	1.11	-0.37	-0.14	
09091512.dat	2009/09/15	11:30	76.64N	165.55W	E0554002	228	0.96	-0.31	-0.21	
09091518.dat	2009/09/15	17:30	76.64N	165.68W	E0553561	228	1.55	-0.34	-0.14	
09091600.dat	2009/09/15	23:30	76.64N	165.65W	E0563021	227	1.04	-0.29	-0.20	Rain
09091606.dat	2009/09/16	05:30	76.00N	164.00W	E0613034	225	1.23	-0.30	-0.17	
09091612.dat	2009/09/16	11:30	76.00N	163.14W	E0613027	226	0.92	-0.32	-0.15	
09091618.dat	2009/09/16	17:30	76.01N	161.65W	E0553978	229	1.01	-0.31	-0.11	
09091700.dat	2009/09/16	23:30	76.02N	161.60W	E0554008	229	1.35	-0.43	-0.11	
09091706.dat	2009/09/17	05:30	76.00N	159.68W	E0553990	229	1.02	-0.34	-0.20	
09091712.dat	2009/09/17	11:30	76.00N	158.00W	E0613036	226	0.99	-0.38	-0.23	
09091718.dat	2009/09/17	17:30	76.00N	156.42W	E0554011	230	1.04	-0.38	-0.23	
09091800.dat	2009/09/17	23:30	76.00N	155.42W	E0613044	227	1.02	-0.32	-0.20	
09091806.dat	2009/09/18	05:30	76.01N	155.01W	E0553563	230	1.13	-0.38	-0.20	
09091812.dat	2009/09/18	11:30	76.01N	153.45W	E0553559	230	1.19	-0.22	-0.16	
09091818.dat	2009/09/18	17:30	76.02N	151.03W	E0563019	230	0.58	-0.37	-0.14	
09091900.dat	2009/09/18	23:30	76.13N	150.72W	E0553557	231	1.60	-0.31	-0.18	
09091906.dat	2009/09/19	05:30	76.54N	150.07W	E0563001	230	0.74	-0.41	-0.24	
09091912.dat	2009/09/19	11:30	77.01N	150.04W	E0563020	230	0.93	-0.34	-0.12	
09091918.dat	2009/09/19	17:30	77.51N	150.00W	E0563057	231	0.88	-0.36	-0.23	
09092000.dat	2009/09/19	23:30	77.77N	150.03W	E0563041	231	1.19	-0.30	-0.31	
09092006.dat	2009/09/20	05:30	78.16N	150.49W	E0563044	231	1.14	-0.29	-0.28	
09092012.dat	2009/09/20	11:30	78.50N	151.48W	E0553556	232	1.29	-0.39	-0.19	
09092018.dat	2009/09/20	17:30	78.83N	151.57W	E0563037	232	0.54	-0.13	-0.15	
09092100.dat	2009/09/20	23:30	78.97N	151.68W	E0563028	232	0.56	-0.34	-0.02	
09092106.dat	2009/09/21	05:30	78.50N	151.70W	E0563026	232	0.89	-0.25	-0.15	Snow
09092112.dat	2009/09/21	11:30	78.34N	152.49W	E0563022	232	0.77	-0.34	-0.11	Snow
09092118.dat	2009/09/21	17:30	78.16N	153.24W	E0563056	233	1.34	-0.33	-0.19	
09092200.dat	2009/09/21	23:30	78.08N	152.88W	E0563011	233	0.71	-0.25	-0.13	
09092206.dat	2009/09/22	05:30	77.91N	153.85W	E0563003	233	1.14	-0.27	-0.15	
09092212.dat	2009/09/22	11:30	77.73N	154.71W	E0563013	234	0.50	-0.27	-0.23	
09092218.dat	2009/09/22	17:30	77.56N	153.17W	E0563014	234	0.99	-0.37	-0.20	
09092300.dat	2009/09/22	23:30	77.38N	151.42W	E0563058	234	1.02	-0.30	-0.34	
09092306.dat	2009/09/23	05:30	77.21N	149.93W	E0553560	235	0.97	-0.24	-0.21	Snow
09092312.dat	2009/09/23	11:30	77.15N	152.15W	E0563042	234	0.96	-0.36	-0.22	Snow
09092318.dat	2009/09/23	17:30	77.08N	155.89W	E0613025	233	1.07	-0.25	-0.11	
09092400.dat	2009/09/23	23:30	77.08N	158.79W	E0613038	233	1.08	-0.36	-0.23	Snow
09092406.dat	2009/09/24	05:30	77.08N	161.05W	E0554009	236	1.19	-0.42	-0.21	
09092412.dat	2009/09/24	11:30	77.09N	163.14W	E0613041	234	1.23	-0.37	-0.22	Snow
09092418.dat	2009/09/24	17:30	77.10N	162.72W	E0613032	234	1.25	-0.25	-0.16	Snow
09092500.dat	2009/09/24	23:30	76.84N	159.37W	E0613028	234	0.86	-0.33	-0.15	Snow
09092506.dat	2009/09/25	05:30	76.40N	155.01W	E0613030	234	1.14	-0.31	-0.17	Snow
09092512.dat	2009/09/25	11:30	76.30N	154.04W	E0553980	238	0.79	-0.34	-0.19	Snow
09092518.dat	2009/09/25	17:30	76.08N	151.70W	E0563036	237	0.64	-0.41	-0.16	Snow
09092600.dat	2009/09/25	23:30	75.50N	152.01W	E0563023	237	0.98	-0.35	-0.18	Snow
09092606.dat	2009/09/26	05:30	75.12N	152.79W	E0563002	237	0.55	-0.35	-0.18	
09092612.dat	2009/09/26	11:30	74.73N	153.52W	E0553562	238	1.23	-0.47	-0.20	Rain
09092618.dat	2009/09/26	17:30	74.51N	154.09W	E0563033	238	0.74	-0.26	-0.22	
09092700.dat	2009/09/26	23:30	74.13N	154.72W	E0563005	238	1.04	-0.27	-0.12	
09092706.dat	2009/09/27	05:30	73.69N	155.52W	E0563004	238	0.72	-0.26	-0.21	
09092712.dat	2009/09/27	11:30	73.72N	155.74W	E0563007	238	0.98	-0.27	-0.19	Snow
09092718.dat	2009/09/27	17:30	73.45N	155.91W	E0563024	239	0.82	0.38	-0.12	
09092800.dat	2009/09/27	23:30	73.41N	158.77W	E0563038	239	1.04	-0.27	-0.12	Snow
09092806.dat	2009/09/28	05:30	72.71N	157.81W	E0563029	239	1.04	-0.23	-0.16	Snow
09092812.dat	2009/09/28	11:30	71.99N	156.04W	E0563008	240	1.00	-0.37	-0.38	
09092818.dat	2009/09/28	17:30	71.67N	155.00W	E0563039	240	1.02	-0.50	-0.16	Snow
09092900.dat	2009/09/28	23:30	71.81N	155.33W	E0563040	240	1.35	-0.37	-0.29	Snow
09092906.dat	2009/09/29	05:30	71.91N	154.00W	E0563018	240	0.95	-0.27	-0.21	Snow
09092912.dat	2009/09/29	11:30	72.19N	154.00W	E0563087	240	1.30	-0.42	-0.23	Snow
09092918.dat	2009/09/29	17:30	72.35N	154.43W	E0563091	241	1.25	-0.23	-0.18	
09093000.dat	2009/09/29	23:30	72.26N	155.40W	E0563510	241	1.44	-0.27	-0.30	
09093006.dat	2009/09/30	05:30	72.44N	157.66W	E0563055	241	1.02	-0.34	-0.17	Snow
09093012.dat	2009/09/30	11:30	72.87N	157.63W	E0613033	240	0.87	-0.32	-0.23	
09093018.dat	2009/09/30	17:30	72.91N	157.66W	E0563127	242	0.89	-0.26	-0.24	
09100100.dat	2009/09/30	23:30	72.70N	157.93W	E0563119	242	1.03	-0.47	-0.22	Snow
09100106.dat	2009/10/01	05:30	72.21N	157.41W	E0563500	242	1.25	-0.45	-0.16	
09100112.dat	2009/10/01	11:30	71.73N	155.19W	E0563111	242	2.05	-0.29	-0.03	

09100118.dat	2009/10/01 17:30	71.61N	154.60W	E0563470	243	1.27	-0.31	Calibration result	-0.03	Temperature and relative humidity data from surface to about 970 [hPa] is incorrect. <b>Note</b>
Data file	Date/Time	Latitude	Longitude	Serial No.	Age	Atmospheric pressure[hPa]	Air temperature[deg-C]	Relative humidity1[%]	Relative humidity2[%]	
09100200.dat	2009/10/01 05:30	71.79N	155.37W	E0563045	244	1.10	-0.30	-0.11	-0.16	
09100206.dat	2009/10/02 05:30	71.73N	155.14W	E0563499	243	1.32	-0.39	-0.24	1.44	
09100212.dat	2009/10/02 11:30	71.74N	155.14W	E0563128	244	0.81	-0.35	-0.21	-0.20	
09100218.dat	2009/10/02 17:30	71.80N	155.35W	E0563077	244	0.68	-0.44	-0.12	-0.09	
09100300.dat	2009/10/02 23:30	71.80N	155.37W	E0563045	244	1.10	-0.30	-0.11	-0.16	
09100306.dat	2009/10/03 05:30	71.79N	156.99W	E0563046	244	1.13	-0.25	-0.06	-0.09	
09100312.dat	2009/10/03 11:30	71.57N	160.54W	E0563064	244	1.38	-0.52	-0.21	-0.22	
09100315.dat	2009/10/03 14:30	71.51N	161.90W	E0563109	245	1.32	-0.23	-0.18	-0.18	
09100318.dat	2009/10/03 17:30	71.97N	162.07W	E0563027	245	0.93	-0.27	-0.13	-0.15	
09100321.dat	2009/10/03 20:30	72.49N	162.00W	E0563059	245	1.13	-0.24	-0.25	-0.28	
09100400.dat	2009/10/03 23:30	73.00N	161.95W	E0563009	245	0.85	-0.27	-0.16	-0.15	
09100403.dat	2009/10/04 02:30	73.51N	162.02W	E0563508	245	1.41	-0.44	-0.33	-0.29	
09100406.dat	2009/10/04 05:30	73.87N	163.46W	E0563502	245	1.21	-0.40	-0.23	-0.24	
09100412.dat	2009/10/04 11:30	74.60N	166.44W	E0563466	246	1.18	-0.45	-0.26	-0.22	
09100418.dat	2009/10/04 17:30	75.27N	166.41W	E0563092	246	0.96	-0.29	-0.13	-0.14	
09100500.dat	2009/10/04 23:30	74.79N	170.39W	E0563095	246	0.97	-0.31	-0.13	-0.13	
09100506.dat	2009/10/05 05:30	74.62N	170.54W	E0563464	246	1.28	-0.45	-0.19	-0.16	
09100512.dat	2009/10/05 11:30	74.54N	167.48W	E0563048	246	0.98	-0.37	-0.19	-0.23	
09100518.dat	2009/10/05 17:30	74.43N	165.75W	E0563110	247	1.34	-0.34	-0.15	-0.18	
09100600.dat	2009/10/05 23:30	74.44N	165.73W	E0563451	247	1.56	-0.31	-0.24	-0.19	
09100606.dat	2009/10/06 05:30	73.99N	163.94W	E0563063	247	1.12	-0.29	-0.25	-0.39	
09100612.dat	2009/10/06 11:30	73.99N	163.97W	E0563060	248	0.67	-0.29	-0.29	-0.42	
09100618.dat	2009/10/06 17:30	73.69N	166.39W	E0563461	248	1.06	-0.48	-0.25	-0.17	
09100700.dat	2009/10/06 23:30	73.51N	168.01W	E1740159	166	0.63	-0.37	-0.31	-0.26	Rain
09100703.dat	2009/10/07 02:30	73.05N	168.01W	E1740184	166	0.68	-0.29	-0.36	-0.32	
09100706.dat	2009/10/07 05:30	72.55N	167.97W	E1740178	166	1.16	-0.24	-0.39	-0.35	
09100709.dat	2009/10/07 08:30	72.04N	168.01W	E1740149	166	0.97	-0.37	-0.22	-0.26	
09100712.dat	2009/10/07 11:30	71.54N	168.03W	E1740189	166	0.79	-0.24	-0.20	-0.21	
09100718.dat	2009/10/07 17:30	72.50N	167.00W	E0563052	249	1.28	-0.33	-0.19	-0.17	
09100800.dat	2009/10/07 23:30	73.49N	166.02W	E1740182	167	1.02	-0.27	-0.25	-0.22	
09100803.dat	2009/10/08 02:30	73.03N	165.98W	E1740155	167	0.64	-0.39	-0.24	-0.21	
09100806.dat	2009/10/08 05:30	72.54N	166.01W	E1740163	167	0.64	-0.39	-0.24	-0.21	
09100809.dat	2009/10/08 08:30	72.02N	166.00W	E1740165	167	1.03	-0.32	-0.21	-0.24	
09100812.dat	2009/10/08 11:30	71.55N	165.99W	E1740152	168	0.78	-0.36	-0.22	-0.20	
09100818.dat	2009/10/08 17:30	72.37N	165.10W	E0563054	250	1.20	-0.29	-0.10	-0.13	
09100900.dat	2009/10/08 23:30	73.39N	164.05W	E1740162	168	0.48	-0.33	-0.22	-0.22	
09100903.dat	2009/10/09 02:30	73.06N	164.03W	E1740186	168	0.54	-0.20	-0.46	-0.43	
09100909.dat	2009/10/09 08:30	72.03N	163.95W	E1740160	168	0.78	-0.30	-0.31	-0.27	
09100912.dat	2009/10/09 11:30	71.52N	163.94W	E0563099	250	1.19	-0.33	-0.15	-0.13	
09100918.dat	2009/10/09 17:30	72.46N	163.01W	E1820905	164	0.39	-0.23	-0.28	-0.22	Rain
09101000.dat	2009/10/09 23:30	73.50N	162.00W	E1820910	164	0.42	-0.19	-0.26	-0.24	Rain
09101003.dat	2009/10/10 02:30	73.05N	161.98W	E1820914	164	0.38	-0.15	-0.30	-0.29	Rain
09101006.dat	2009/10/10 05:30	72.53N	162.02W	E1820904	164	0.81	-0.08	-0.27	-0.27	
09101009.dat	2009/10/10 08:30	72.02N	162.03W	E1820916	164	1.07	-0.20	-0.24	-0.21	
09101012.dat	2009/10/10 11:30	71.53N	162.01W	E1820906	164	0.31	-0.16	-0.26	-0.24	Rain
09101018.dat	2009/10/10 17:30	71.22N	159.10W	E1740426	170	0.60	-0.32	-0.32	0.30	
09101100.dat	2009/10/10 23:30	71.15N	161.23W	E1820900	165	0.47	-0.13	-0.35	-0.32	Rain
09101106.dat	2009/10/11 05:30	70.30N	164.76W	E1820902	165	0.35	-0.15	-0.31	-0.27	

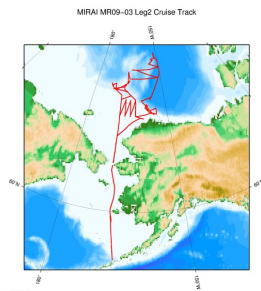
Reference

- 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: DigiCORAll. 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)

Related Information



[Enlarge Image](#)

#### MR09-03 Leg2

Ship Name: MIRAI

Period: 2009-09-07 - 2009-10-15

Chief Scientist: Takashi Kikuchi (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Multi-disciplinary observation cruise for the Arctic Ocean

Title:

#### Update History

2017-08-23	An observation data was registerd.
2014-07-11	An observation data was registerd.
2014-06-13	An observation data was registerd.
2014-03-13	An observation data was registerd.
2012-09-28	An observation data was registerd.

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[Update History](#)

[Feeds](#)

#### Lists

[Publication List](#)

[Amount of Public Info.](#)

#### Data

[Map Search](#)

[Data Tree](#)

[Detailed Search](#)

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#### Go to a Cruise Information

Cruise ID:

#### Go to a Dive Information

Dive ID:

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**JAMSTEC**

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海洋研究開発機構  
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## MIRAI MR09-03 Leg2 Radiosonde

Last Modified: 2017-08-23

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

Cruise ID: [MR09-03 Leg2](#)

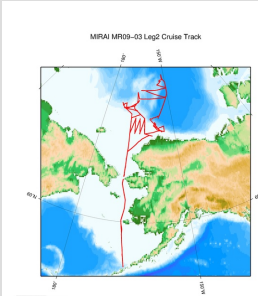
Radiosonde: Processed (DMO)-Corrected

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



[Enlarge Image](#)

#### MR09-03 Leg2

Ship Name: MIRAI

Period: 2009-09-07 - 2009-10-15

Chief Scientist: Takashi Kikuchi (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Multi-disciplinary observation cruise for the Arctic Ocean

Title:

### Update History

2017-08-23	An observation data was registered.
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2014-03-13	An observation data was registered.
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[Update History](#)  
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[Publication List](#)  
[Amount of Public Info.](#)  
  
[Data](#)  
[Map Search](#)  
[Data Tree](#)  
[Detailed Search](#)

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[NATSUSHIMA](#)  
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[SAMPLER \(SHELL\)](#)  
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[SAMPLER \(CLOW\)](#)  
[BMS](#)

#### Go to a Cruise Information

Cruise ID:

#### Go to a Dive Information

Dive ID:

## MIRAI MR09-03 Leg2 Radiosonde

Last Modified: 2017-08-23

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

Cruise ID: [MR09-03 Leg2](#)

Radiosonde: Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

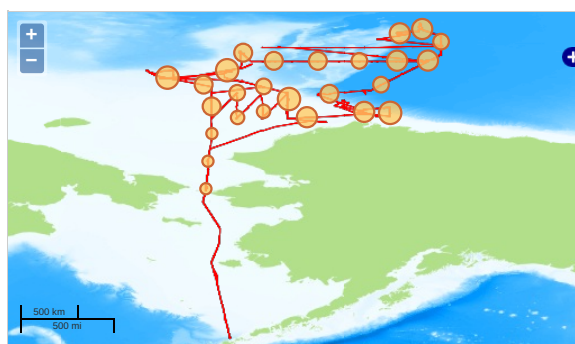
Observation Items: Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal), Wind speed (meridional)

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

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



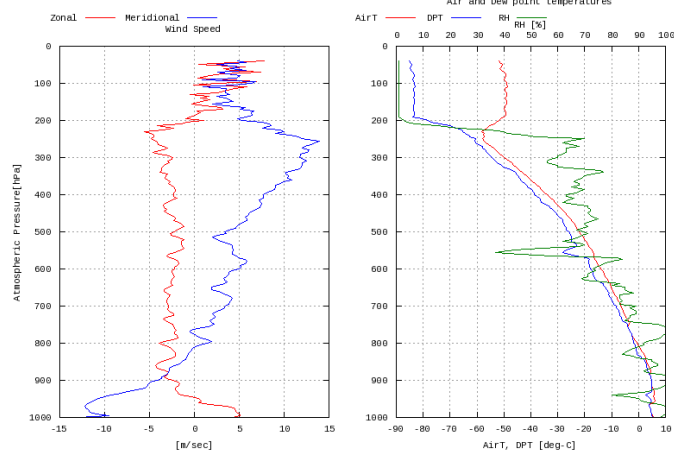
— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

Imagery reproduced from ...

### Figures

09091006

MR09-03 Leg2: 09091006  
Radiosonde



### Data List

☐ File names

☐ 09091006.dat

☐ 09091012.dat

☐ 09091018.dat

☐ 09091100.dat

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Related Information



MR09-03 Leg2

Ship Name: MIRAI

Period: 2009-09-07 - 2009-10-15

Chief Scientist: Takashi Kikuchi (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Multi-disciplinary observation cruise for the Arctic Ocean

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Privacy Policy

Application for Data and Samples

Data Policy
- What's New

Update History

Feeds

- Lists

Publication List

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Go to a Cruise Information

Cruise ID:

Go

Go to a Dive Information

Dive ID:

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▼

Go



KM-ROV  
POWER GRAB SAMPLER  
(SHELL)  
POWER GRAB SAMPLER  
(CLOW)  
BMS

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