

MIRAI MR08-04 Radiosonde

Last Modified: 2014-07-11

ReadMe Observation Data Data Format

Cruise ID: **MR08-04**

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/MR08-04_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)



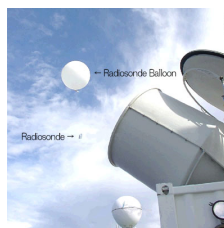
Instrument:

Radiosonde (MR04-03 Leg1 - MR11-02)



Instrument:

Radiosonde (- MR04-02)



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[%]	
08081921.dat	2008/08/19	20:30	46.30N	159.71E	D2414239	71	0.50	-0.35	-0.15	-0.14	
08090100.dat	2008/08/31	23:30	71.73N	155.16W	D1715785	132	0.88	-0.38	0.13	0.21	
08090106.dat	2008/09/01	05:30	72.60N	153.62W	D1715787	132	1.17	-0.28	0.00	0.42	
08090112.dat	2008/09/01	11:30	73.41N	152.00W	D1715763	132	1.12	-0.24	0.31	-0.03	
08090118.dat	2008/09/01	17:30	73.55N	152.77W	D1073631	176	0.83	-0.38	-0.04	-0.08	
08090200.dat	2008/09/01	23:30	73.81N	154.04W	D1123381	174	0.77	-0.38	-0.11	-0.16	
08090206.dat	2008/09/02	05:30	74.19N	156.04W	D1123363	174	0.74	-0.38	-0.07	-0.12	
08090212.dat	2008/09/02	11:30	74.72N	158.56W	D1073675	176	0.78	-0.37	0.03	-0.02	Rain
08090218.dat	2008/09/02	17:30	74.98N	159.87W	D1123359	175	1.06	-0.35	-0.06	-0.11	
08090300.dat	2008/09/02	23:30	74.81N	158.54W	D1123358	175	0.96	-0.46	-0.06	-0.09	
08090306.dat	2008/09/03	05:30	75.56N	157.40W	D1073670	177	0.75	-0.25	-0.06	-0.07	
08090312.dat	2008/09/03	11:30	76.35N	156.10W	D1073177	178	0.86	-0.37	0.03	0.00	
08090318.dat	2008/09/03	17:30	77.26N	154.48W	D1054162	180	0.92	-0.42	0.11	-0.12	

08090400.dat	2008/09/04	11:30	77.33N	155.15W	D1053080	181	0.75	-0.44	Calibration	0.04	0.10	
Data file	08090406.dat	2008/09/04	05:30	77.05N	154.38W	D1053080	180	0.51	-0.52	0.00	-0.01	
	08090412.dat	2008/09/04	11:30	76.81N	154.98W	D1073081	178	0.87	Air	0.00	-0.03	Note
	08090500.dat	2008/09/04	23:30	76.88N	153.75W	D1073093	179	0.72	Atmospheric	0.00	-0.03	
		Date	Time	Latitude	Longitude	Serial No.	Age	pressure[hPa]	temperature[deg-c]	Relative	Relative	
										humidity1[%]	humidity2[%]	
08090512.dat	2008/09/05	11:30	76.16N	151.47W	D1053818	182	0.84	-0.38		0.08	0.09	Snow
08090600.dat	2008/09/05	23:30	75.50N	147.50W	D1053792	182	0.79	-0.28		0.21	0.11	Snow
08090612.dat	2008/09/06	11:30	74.54N	145.01W	D1123368	178	0.95	-0.45		0.11	0.03	Snow
08090618.dat	2008/09/06	17:30	74.00N	144.98W	D1073130	181	0.91	-0.44		0.15	0.12	
08090700.dat	2008/09/06	23:30	73.04N	145.00W	D1123357	179	0.99	-0.58		0.12	0.09	
08090706.dat	2008/09/07	05:30	72.60N	145.06W	D1053810	183	0.91	-0.50		0.14	0.11	
08090712.dat	2008/09/07	11:30	72.00N	145.00W	D1073182	182	1.06	-0.28		0.12	0.10	
08090718.dat	2008/09/07	17:30	71.25N	145.00W	D1073098	182	0.79	-0.42		0.10	0.09	
08090800.dat	2008/09/07	23:30	71.02N	145.01W	D1073156	182	0.88	-0.39		0.06	0.11	
08090812.dat	2008/09/08	11:30	71.58N	146.53W	D1073064	182	0.85	-0.44		0.20	0.10	
08090900.dat	2008/09/08	23:30	72.00N	150.01W	D1043168	186	0.81	-0.40		0.10	0.09	
08090912.dat	2008/09/09	11:30	71.93N	154.22W	D1073128	184	1.00	-0.58		0.09	0.08	
08091000.dat	2008/09/09	23:30	71.67N	154.98W	D1053795	186	1.07	-0.39		0.12	0.06	
08091012.dat	2008/09/10	11:30	72.59N	154.35W	D1073095	184	1.50	-0.49		0.14	0.09	Rain
08091018.dat	2008/09/10	17:30	73.04N	156.01W	D1123369	183	0.94	-0.32		0.00	-0.05	
08091100.dat	2008/09/10	23:30	73.50N	158.06W	D1053774	187	0.00	-0.34		0.05	0.03	
08091106.dat	2008/09/11	05:30	73.96N	159.84W	D1123373	183	0.86	-0.55		0.03	-0.02	
08091112.dat	2008/09/11	11:30	74.40N	161.63W	D1053775	188	1.15	-0.36		-0.02	-0.04	
08091200.dat	2008/09/11	23:30	74.60N	158.04W	D2733700	71	1.12	-0.39		-0.20	-0.27	
08091212.dat	2008/09/12	11:30	75.43N	161.77W	D2733071	72	1.13	-0.31		-0.09	-0.23	
08091300.dat	2008/09/12	23:30	76.25N	164.98W	D2733082	72	0.84	-0.31		0.00	-0.06	
08091312.dat	2008/09/13	11:30	76.23N	162.25W	D2733078	72	0.71	-0.23		-0.07	0.05	Snow
08091318.dat	2008/09/13	17:30	76.63N	161.47W	D2733091	73	1.07	-0.21		0.05	-0.15	
08091400.dat	2008/09/13	23:30	77.52N	161.01W	D2733069	73	1.44	-0.29		-0.03	-0.24	
08091412.dat	2008/09/14	11:30	76.63N	161.03W	D2733072	74	0.95	-0.22		-0.15	-0.28	Snow
08091418.dat	2008/09/14	17:30	76.61N	162.76W	D2733699	74	1.00	-0.32		-0.16	-0.15	Snow
08091500.dat	2008/09/14	23:30	76.60N	167.97W	D2733076	74	1.02	-0.28		-0.01	-0.02	Snow
08091506.dat	2008/09/15	05:30	76.70N	166.58W	D2733025	74	1.03	-0.29		-0.04	-0.11	
08091512.dat	2008/09/15	11:30	76.99N	165.52W	D2733080	74	0.26	-0.39		-0.12	-0.13	
08091518.dat	2008/09/15	17:30	77.64N	165.55W	D2733273	75	1.42	-0.13		-0.02	-0.16	
08091600.dat	2008/09/15	23:30	77.74N	164.87W	D2733268	75	0.98	-0.23		0.02	-0.03	
08091612.dat	2008/09/16	11:30	76.15N	163.85W	D2733073	76	0.64	0.86		-0.09	-0.32	
08091700.dat	2008/09/16	23:30	75.87N	158.30W	D2733067	76	-1.63	-0.30		-0.06	-0.28	
08091712.dat	2008/09/17	11:30	75.25N	160.00W	D2733087	76	1.06	-0.34		0.12	-0.08	
08091800.dat	2008/09/17	23:30	74.87N	162.25W	D2733077	77	0.96	-0.27		-0.10	-0.18	
08091812.dat	2008/09/18	11:30	74.25N	166.01W	D2733083	78	1.15	-0.23		-0.09	-0.11	
08091900.dat	2008/09/18	23:30	74.53N	167.17W	D2733084	78	1.12	-0.24		0.00	-0.09	
08091906.dat	2008/09/19	05:30	75.00N	167.50W	D2733070	78	1.09	-0.73		-0.06	-0.25	Snow
08091912.dat	2008/09/19	11:30	75.68N	166.16W	D2733074	78	1.18	-0.43		-0.03	-0.26	Snow
08092000.dat	2008/09/19	23:30	75.57N	170.02W	D2733068	79	0.79	-0.32		-0.01	-0.33	
08092012.dat	2008/09/20	11:30	74.76N	171.18W	D1053045	196	0.37	-0.45		0.10	0.06	
08092100.dat	2008/09/20	23:30	75.15N	175.06W	D1054553	197	0.93	-0.38		0.04	0.00	
08092112.dat	2008/09/21	11:30	74.89N	172.06W	D1053227	198	1.23	-0.51		0.02	0.00	
08092200.dat	2008/09/21	23:30	75.00N	175.60W	D1053740	198	0.85	-0.42		0.04	-0.01	Snow
08092212.dat	2008/09/22	11:30	75.00N	170.01W	D1053114	198	1.40	-0.55		0.02	-0.01	Snow
08092300.dat	2008/09/22	23:30	75.01N	164.01W	D1054018	199	1.11	-0.50		0.08	0.04	
08092312.dat	2008/09/23	11:30	73.94N	162.95W	D1043209	200	0.77	-0.48		0.17	0.07	
08092318.dat	2008/09/23	17:30	73.15N	162.33W	D1054208	200	0.76	-0.43		0.00	0.00	
08092400.dat	2008/09/23	23:30	73.44N	160.19W	D1113017	197	0.95	-0.39		0.05	0.03	Snow
08092412.dat	2008/09/24	11:30	73.77N	160.78W	D1113018	198	1.10	-0.60		0.00	-0.01	Snow
08092500.dat	2008/09/24	23:30	73.71N	162.74W	D1053066	201	1.10	-0.56		0.03	0.01	Snow
08092512.dat	2008/09/25	11:30	74.77N	172.47W	D1053215	202	1.03	-0.53		0.00	-0.03	
08092612.dat	2008/09/26	11:30	74.92N	175.14E	D1113005	200	0.82	-0.48		0.02	-0.04	
08092618.dat	2008/09/26	17:30	75.34N	175.36E	D1113008	200	1.22	-0.47		0.01	0.00	Rain
08092700.dat	2008/09/26	23:30	76.00N	176.00E	D1113061	200	1.02	-0.49		-0.06	-0.12	
08092706.dat	2008/09/27	05:30	76.69N	176.70E	D1113001	200	0.93	-0.44		0.06	0.26	
08092712.dat	2008/09/27	11:30	77.44N	177.51E	D1113006	200	0.84	-0.50		0.06	0.04	Snow
08092718.dat	2008/09/27	17:30	77.73N	177.77E	D1073692	202	1.10	-0.45		0.06	0.02	
08092800.dat	2008/09/27	23:30	78.69N	178.50E	D1113009	201	0.97	-0.50		0.16	0.11	Snow
08092806.dat	2008/09/28	05:30	78.13N	179.65W	D1113002	201	1.03	-0.36		0.12	0.14	
08092812.dat	2008/09/28	11:30	77.54N	177.35W	D1113010	202	1.01	-0.45		0.10	0.10	
08092818.dat	2008/09/28	17:30	77.00N	176.84W	D1113011	202	1.10	-0.48		0.12	0.05	Snow
08092900.dat	2008/09/28	23:30	76.70N	175.08W	D1073685	203	0.91	-0.36		0.09	0.06	
08092906.dat	2008/09/29	05:30	76.62N	177.15W	D1073146	203	1.06	-0.32		0.05	0.04	
08092912.dat	2008/09/29	11:30	77.00N	177.93W	D1073477	204	0.72	-0.22		0.06	0.05	
08092918.dat	2008/09/29	17:30	76.54N	179.65W	D1113007	203	0.95	-0.43		0.08	0.08	
08093000.dat	2008/09/29	23:30	76.16N	176.89W	D1123364	202	0.90	-0.45		0.01	-0.09	
08093012.dat	2008/09/30	11:30	75.27N	179.68W	D1073183	204	0.73	-0.53		0.13	0.17	
08100100.dat	2008/09/30	23:30	75.26N	174.76W	D1123383	203	1.03	-0.40		-0.04	-0.06	

	Launch time (UTC)	Latitude	Longitude	Sensor information		Calibration	Result		
08100112.dat	2008/10/01 11:30	73.60N	165.15W	D1123382	204	0.88	-0.40	Air	-0.04
08100200.dat	2008/10/01 23:30	74.38N	165.25W	D1113004	205	1.02	-0.32	Air	0.09
08100212.dat	2008/10/02 11:30	73.05N	162.00W	D1123380	204	0.72	-0.32	Relative humidity1[%]	0.01
08100300.dat	2008/10/02 23:30	72.59N	157.63W	D1053212	209	0.51	-0.49	Relative humidity2[%]	0.05
08100312.dat	2008/10/03 11:30	71.82N	153.10W	D1073192	208	0.80	-0.50		0.04
08100400.dat	2008/10/03 23:30	71.73N	155.15W	D1073666	208	0.90	-0.42		0.08
08100412.dat	2008/10/04 11:30	72.00N	161.08W	D1073701	208	0.73	-0.33		0.08
08100418.dat	2008/10/04 17:30	72.00N	164.02W	D1073470	209	0.58	-0.28		0.01

Reference

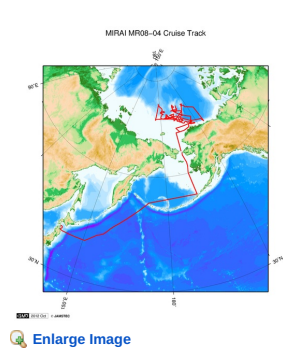
- K. Yoneyama, M.Hanyu, S.Sueyoshi, F.Yoshiura, and M.Katsumata, 2002:Radiosonde observation from the ship in the tropical region.[\[PDF:400kbyte\]](#)
JAMSTECR, Vol.45, 31-39.
- K. Yoneyama, M.fujita, N.Sato, M.Fujiwara, Y.Inai, and F.Hasebe, 2008:Correction for Radiation Dry Bias Found in RS92 Radiosonde 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)

Note

Related Information



MR08-04
Ship Name: MIRAI
Period: 2008-08-15 - 2008-10-09
Chief Scientist: Koji Shimada (JAMSTEC)
Project Name: [Arctic Ocean Climate System Reaserch]
Proposal R/V Mirai International Polar Year 2008 cruise
Title:

Update History

2014-07-11	An observation data was registerd.
2014-06-13	An observation data was registerd.
2012-10-26	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:

Copyright 2011 Japan Agency for Marine-Earth Science and Technology



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 MR08-04 Radiosonde

Last Modified: 2014-07-11

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

Cruise ID: **MR08-04**

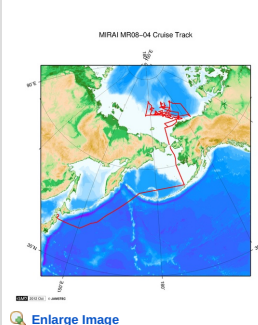
Radiosonde: Processed (DMO)-Corrected

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



MR08-04

Ship Name: MIRAI
Period: 2008-08-15 - 2008-10-09
Chief Scientist: Koji Shimada (JAMSTEC)
Project Name: [Arctic Ocean Climate System Research]
Proposal R/V Mirai International Polar Year 2008 cruise
Title:

Update History

2014-07-11	An observation data was registerd.
2014-06-13	An observation data was registerd.
2012-10-26	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 MR08-04 Radiosonde

Last Modified: 2014-07-11

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

Cruise ID: [MR08-04](#)

Radiosonde: Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

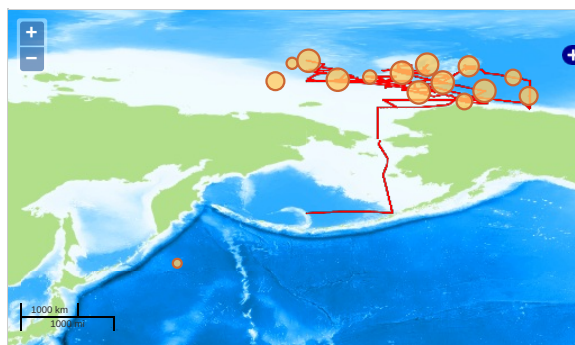
Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

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

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

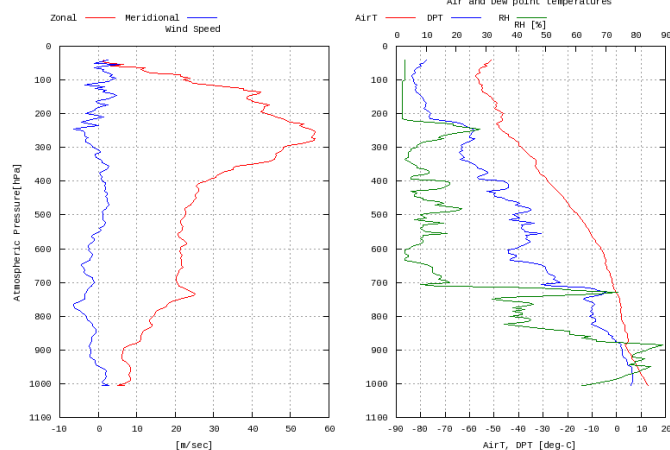


— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

Figures

08081921

MR08-04: 08081921
Radiosonde



Data List

☐ File names

☐ 08081921.dat

☐ 08090100.dat

☐ 08090106.dat

☐ 08090112.dat

☐ 08090118.dat

☐ 08090200.dat

☐ 08090206.dat

☐ 08090212.dat

☐ 08090218.dat



































☐ 08090300.dat

☐ 08090306.dat

☐ 08090312.dat

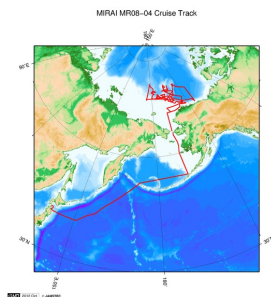
☐ 08090318.dat

☐ 08090400.dat

	Files
	08090412.dat
	08090500.dat
	08090512.dat
	08090600.dat
	08090612.dat
	08090618.dat
	08090700.dat
	08090706.dat
	08090712.dat
	08090718.dat
	08090800.dat
	08090812.dat
	08090900.dat
	08090912.dat
	08091000.dat
	08091012.dat
	08091018.dat
	08091100.dat
	08091106.dat
	08091112.dat
	08091200.dat
	08091212.dat
	08091300.dat
	08091312.dat
	08091318.dat
	08091400.dat
	08091412.dat
	08091418.dat
	08091500.dat
	08091506.dat
	08091512.dat
	08091518.dat
	08091600.dat
	08091612.dat
	08091700.dat
	08091712.dat
	08091800.dat
	08091812.dat
	08091900.dat
	08091906.dat
	08091912.dat
	08092000.dat
	08092012.dat
	08092100.dat
	08092112.dat
	08092200.dat
	08092212.dat
	08092300.dat
	08092312.dat
	08092318.dat
	08092400.dat
	08092412.dat
	08092500.dat
	08092512.dat
	08092612.dat
	08092618.dat
	08092700.dat
	08092706.dat
	08092712.dat
	08092718.dat
	08092800.dat
	08092806.dat
	08092812.dat
	08092818.dat
	08092900.dat
	08092906.dat
	08092912.dat
	08092918.dat
	08093000.dat
	08093012.dat
	08100100.dat
	08100112.dat
	08100200.dat
	08100212.dat
	08100300.dat
	08100312.dat

- ☐ 08100409.dat
- ☐ 08100412.dat
- ☐ 08100418.dat

Related Information



[Enlarge Image](#)

MR08-04

Ship Name: MIRAI
 Period: 2008-08-15 - 2008-10-09
 Chief Scientist: Koji Shimada (JAMSTEC)
 Project Name: [Arctic Ocean Climate System Reaserch]
 Proposal R/V Mirai International Polar Year 2008 cruise
 Title:

Update History

2014-07-11	An observation data was registerd.
2014-06-13	An observation data was registerd.
2012-10-26	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:

Copyright 2011 Japan Agency for Marine-Earth Science and Technology



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