

MIRAI MR18-04 Leg2 Radiosonde

Last Modified: 2020-09-06

ReadMe Observation Data Data Format

Cruise ID: **MR18-04 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/MR18-04_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 (however, RS41 sonde sensor has only one humidity sensor and is not necessary to calibrate temperature sensor). 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	Type	Serial No.	Age	Atmospheric pressure [hPa]	Air temperature [deg-C]	Relative humidity1 [%]	Relative humidity2 [%]	
18081400.dat	2018/08/13	23:30	3.48N	154.22E	RS41-SGP	N5230153	236	0.89	N/A	-0.2	N/A	Drizzle
18081406.dat	2018/08/14	05:30	2.44N	154.76E	RS41-SGP	N5230166	237	0.77	N/A	-0.3	N/A	
18081412.dat	2018/08/14	11:30	1.38N	155.31E	RS41-SGP	N5230130	237	0.78	N/A	-0.2	N/A	
18081418.dat	2018/08/14	17:30	0.49N	155.78E	RS41-SGP	P0150689	221	0.69	N/A	-0.2	N/A	Drizzle
18081500.dat	2018/08/14	23:31	0.04N	156.05E	RS41-SGP	P2320194	70	0.93	N/A	0.2	N/A	
18081506.dat	2018/08/15	05:30	0.00N	156.04E	RS41-SGP	P2320168	71	0.91	N/A	0.1	N/A	Drizzle
18081512.dat	2018/08/15	11:30	0.04N	155.99E	RS41-SGP	P2320193	71	0.76	N/A	0.3	N/A	Rain
18081518.dat	2018/08/15	17:30	0.03N	155.96E	RS41-SGP	P2320165	71	0.93	N/A	0.2	N/A	
18081600.dat	2018/08/15	23:30	0.02S	155.96E	RS41-SGP	P2320196	71	0.66	N/A	0.2	N/A	
18081606.dat	2018/08/16	05:30	0.00N	156.10E	RS41-SGP	P2320195	72	0.59	N/A	0.3	N/A	
18081612.dat	2018/08/16	11:31	0.04S	156.13E	RS41-SGP	P2320167	72	0.80	N/A	0.3	N/A	Rain
18081618.dat	2018/08/16	17:30	0.03S	156.14E	RS41-SGP	P2320275	72	0.73	N/A	0.3	N/A	
18081700.dat	2018/08/16	23:30	0.06S	156.14E	RS41-SGP	P2320164	72	0.93	N/A	0.2	N/A	Rain
18081706.dat	2018/08/17	05:30	0.04S	156.14E	RS41-SGP	P2320198	73	0.81	N/A	0.3	N/A	
18081712.dat	2018/08/17	11:30	0.33N	155.38E	RS41-SGP	P2320163	73	0.96	N/A	0.4	N/A	
18081718.dat	2018/08/17	17:30	0.73N	154.36E	RS41-SGP	P2320282	73	0.84	N/A	0.2	N/A	
18081800.dat	2018/08/17	23:30	1.14N	153.28E	RS41-SGP	P2320286	73	0.93	N/A	0.3	N/A	
18081812.dat	2018/08/18	11:30	1.99N	151.07E	RS41-SGP	P2320166	74	0.89	N/A	0.3	N/A	
18081818.dat	2018/08/18	17:30	2.43N	150.01E	RS41-SGP	P2320276	74	0.97	N/A	0.3	N/A	
18081900.dat	2018/08/18	23:30	2.88N	148.97E	RS41-SGP	P2320278	74	0.88	N/A	0.3	N/A	
18081912.dat	2018/08/19	11:30	4.00N	146.92E	RS41-SGP	N5230142	242	0.87	N/A	-0.4	N/A	

18081918.dat	2018/08/19	17:30	4.58N	144.88E	RS41-SGP	N5230143	242	0.59	N/A	-0.1	N/A	
18082000.dat	2018/08/19	23:30	5.10N	144.79E	RS41-SGP	P0150135	226	0.73	N/A	0.4	N/A	
18082012.dat	2018/08/20	11:30	5.94N	142.54E	RS41-SGP	N5230179	243	0.88 [hPa]	N/[deg-C]	-0.1 [%]	N/A [%]	
18082018.dat	2018/08/20	17:30	6.32N	141.38E	RS41-SGP	N5230154	243	0.60	N/A	-0.4	N/A	
18082100.dat	2018/08/20	23:33	6.70N	140.16E	RS41-SGP	N5230136	243	0.87	N/A	-0.1	N/A	
18082106.dat	2018/08/21	05:30	7.02N	139.04E	RS41-SGP	N5230140	244	0.79	N/A	-0.2	N/A	
18082112.dat	2018/08/21	11:30	7.35N	137.95E	RS41-SGP	N5230127	244	0.77	N/A	-0.1	N/A	
18082118.dat	2018/08/21	17:30	7.60N	136.98E	RS41-SGP	N5230155	244	0.60	N/A	-0.3	N/A	
18082200.dat	2018/08/21	23:35	7.69N	136.73E	RS41-SGP	P2320281	77	0.94	N/A	0.3	N/A	
18082206.dat	2018/08/22	05:30	7.64N	136.71E	RS41-SGP	N5230102	245	0.83	N/A	-0.2	N/A	
18082212.dat	2018/08/22	11:30	7.89N	136.50E	RS41-SGP	N5230128	245	0.73	N/A	-0.1	N/A	
18082218.dat	2018/08/22	17:30	7.89N	136.50E	RS41-SGP	N5230134	245	0.72	N/A	-0.1	N/A	
18082300.dat	2018/08/22	23:30	7.86N	136.51E	RS41-SGP	N5230175	245	0.63	N/A	-0.1	N/A	
18082306.dat	2018/08/23	05:30	7.90N	136.45E	RS41-SGP	N5230177	246	0.66	N/A	-0.3	N/A	
18082312.dat	2018/08/23	11:30	9.05N	136.56E	RS41-SGP	N5230129	246	0.68	N/A	-0.2	N/A	
18082318.dat	2018/08/23	17:30	10.24N	136.68E	RS41-SGP	N5230178	246	0.55	N/A	-0.3	N/A	
18082400.dat	2018/08/23	23:30	11.46N	136.74E	RS41-SGP	N5230145	246	0.81	N/A	-0.2	N/A	
18082406.dat	2018/08/24	05:30	12.71N	136.86E	RS41-SGP	N5230186	247	0.61	N/A	-0.1	N/A	
18082412.dat	2018/08/24	11:30	13.13N	136.94E	RS41-SGP	P2320271	80	0.91	N/A	0.4	N/A	Drizzle
18082415.dat	2018/08/24	14:30	13.14N	136.94E	RS41-SGP	P2320279	80	0.82	N/A	0.3	N/A	
18082418.dat	2018/08/24	17:30	13.12N	136.94E	RS41-SGP	P2320274	80	0.89	N/A	0.3	N/A	
18082421.dat	2018/08/24	20:30	13.08N	137.08E	RS41-SGP	P2320347	80	0.81	N/A	0.3	N/A	
18082500.dat	2018/08/24	23:30	13.16N	136.81E	RS41-SGP	P2320197	80	0.68	N/A	0.2	N/A	
18082503.dat	2018/08/25	02:22	13.13N	136.87E	RS41-SGP	P2320273	81	0.82	N/A	0.5	N/A	
18082506.dat	2018/08/25	05:30	13.13N	136.93E	RS41-SGP	P2320345	81	0.85	N/A	0.1	N/A	
18082509.dat	2018/08/25	08:30	13.15N	136.90E	RS41-SGP	P2320348	81	0.82	N/A	0.2	N/A	
18082512.dat	2018/08/25	11:30	13.14N	136.87E	RS41-SGP	P2320272	81	0.80	N/A	0.4	N/A	
18082515.dat	2018/08/25	14:30	13.01N	136.68E	RS41-SGP	P2320343	81	0.78	N/A	0.3	N/A	
18082518.dat	2018/08/25	17:30	13.00N	136.68E	RS41-SGP	P2320280	81	0.93	N/A	0.1	N/A	
18082521.dat	2018/08/25	20:30	13.00N	136.70E	RS41-SGP	P2310618	82	0.81	N/A	0.2	N/A	
18082600.dat	2018/08/25	23:30	13.01N	136.71E	RS41-SGP	P2320367	81	0.89	N/A	0.3	N/A	
18082603.dat	2018/08/26	02:30	13.02N	136.72E	RS41-SGP	P2320346	82	0.88	N/A	0.4	N/A	
18082606.dat	2018/08/26	05:30	12.99N	136.70E	RS41-SGP	P2320337	82	0.87	N/A	0.2	N/A	
18082609.dat	2018/08/26	08:30	13.00N	136.71E	RS41-SGP	P2310882	83	0.94	N/A	0.2	N/A	
18082612.dat	2018/08/26	11:30	13.00N	136.72E	RS41-SGP	P2320341	82	1.03	N/A	0.2	N/A	
18082615.dat	2018/08/26	14:30	13.01N	136.70E	RS41-SGP	P2320342	82	0.89	N/A	0.1	N/A	
18082618.dat	2018/08/26	17:30	13.00N	136.69E	RS41-SGP	P2320329	82	0.94	N/A	0.4	N/A	
18082621.dat	2018/08/26	20:30	13.01N	136.70E	RS41-SGP	P2320302	82	0.77	N/A	0.3	N/A	
18082700.dat	2018/08/26	23:30	13.00N	136.70E	RS41-SGP	P2320330	82	0.64	N/A	0.2	N/A	
18082703.dat	2018/08/27	02:30	13.00N	136.72E	RS41-SGP	P2320328	83	1.01	N/A	0.2	N/A	
18082706.dat	2018/08/27	05:30	13.01N	136.70E	RS41-SGP	P2320327	83	1.00	N/A	0.2	N/A	
18082709.dat	2018/08/27	08:30	13.01N	136.71E	RS41-SGP	P2320326	83	0.85	N/A	0.2	N/A	
18082712.dat	2018/08/27	11:30	13.00N	136.71E	RS41-SGP	P2320325	83	1.06	N/A	0.2	N/A	
18082715.dat	2018/08/27	14:30	12.99N	136.71E	RS41-SGP	P2320371	83	0.90	N/A	0.3	N/A	Drizzle
18082718.dat	2018/08/27	17:30	12.94N	136.83E	RS41-SGP	P2320368	83	0.93	N/A	0.3	N/A	
18082721.dat	2018/08/27	20:29	12.87N	136.91E	RS41-SGP	P2320369	83	1.01	N/A	0.3	N/A	
18082800.dat	2018/08/27	23:30	12.87N	136.88E	RS41-SGP	P2320338	83	0.87	N/A	0.2	N/A	
18082803.dat	2018/08/28	02:29	12.88N	136.89E	RS41-SGP	P2320291	84	0.69	N/A	0.3	N/A	
18082806.dat	2018/08/28	05:30	12.78N	136.51E	RS41-SGP	P2320339	84	0.85	N/A	0.3	N/A	
18082809.dat	2018/08/28	08:30	12.80N	136.43E	RS41-SGP	P2320340	84	0.89	N/A	0.3	N/A	
18082812.dat	2018/08/28	11:30	12.81N	136.42E	RS41-SGP	P2320304	84	0.75	N/A	0.3	N/A	
18082818.dat	2018/08/28	17:30	13.73N	136.71E	RS41-SGP	N5230147	251	0.79	N/A	-0.1	N/A	Rain
18082900.dat	2018/08/28	23:30	14.88N	137.11E	RS41-SGP	N5230184	251	0.63	N/A	-0.2	N/A	
18082906.dat	2018/08/29	05:30	16.00N	137.41E	RS41-SGP	N5230157	252	0.90	N/A	-0.2	N/A	
18082912.dat	2018/08/29	11:30	17.12N	137.77E	RS41-SGP	N5230135	252	0.70	N/A	-0.2	N/A	
18082918.dat	2018/08/29	17:30	18.27N	138.00E	RS41-SGP	N5230181	252	0.69	N/A	-0.2	N/A	
18083000.dat	2018/08/29	23:54	19.51N	138.23E	RS41-SGP	N5230183	252	0.77	N/A	-0.3	N/A	
18083006.dat	2018/08/30	05:30	20.49N	138.48E	RS41-SGP	N5230137	253	0.60	N/A	-0.4	N/A	
18083012.dat	2018/08/30	11:30	21.59N	138.64E	RS41-SGP	N5230161	253	0.84	N/A	-0.2	N/A	
18083018.dat	2018/08/30	17:30	22.73N	138.88E	RS41-SGP	N5230131	253	0.75	N/A	-0.2	N/A	
18083100.dat	2018/08/30	23:30	23.92N	139.12E	RS41-SGP	N5230180	253	0.74	N/A	-0.2	N/A	
18083106.dat	2018/08/31	05:30	25.09N	139.34E	RS41-SGP	N5230152	254	0.61	N/A	-0.2	N/A	
18083112.dat	2018/08/31	11:30	26.30N	139.59E	RS41-SGP	N5230165	254	0.79	N/A	-0.2	N/A	
18083118.dat	2018/08/31	17:30	27.47N	139.87E	RS41-SGP	N5230167	254	0.79	N/A	-0.2	N/A	
18090100.dat	2018/08/31	23:30	28.67N	140.12E	RS41-SGP	N5230162	254	1.02	N/A	-0.1	N/A	
18090106.dat	2018/09/01	05:30	29.83N	140.38E	RS41-SGP	N5230182	255	0.61	N/A	-0.1	N/A	
18090112.dat	2018/09/01	11:30	30.99N	140.75E	RS41-SGP	N5230185	255	0.72	N/A	-0.1	N/A	
18090118.dat	2018/09/01	17:30	32.20N	141.19E	RS41-SGP	P2320285	88	0.83	N/A	0.3	N/A	
18090200.dat	2018/09/01	23:30	33.40N	141.52E	RS41-SGP	P2320301	88	0.75	N/A	0.3	N/A	

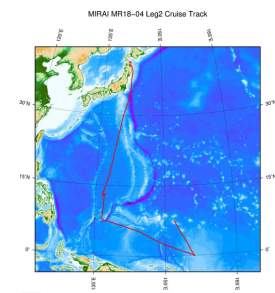
Reference

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](#)

MR18-04 Leg2

Ship Name: MIRAI

Period: 2018-08-12 - 2018-09-06

Chief Scientist: Masaki Katsumata (JAMSTEC)

Proposal The observational study to construct and extend the "western Pacific super site network"

Title:

Update History

Date	Description
2020-09-06	An observation data was registerd.

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[KM-ROV](#)
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[POWER GRAB SAMPLER \(CLOW\)](#)
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Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

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MIRAI MR18-04 Leg2 Radiosonde

Last Modified: 2020-09-06

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Cruise ID: [MR18-04 Leg2](#)

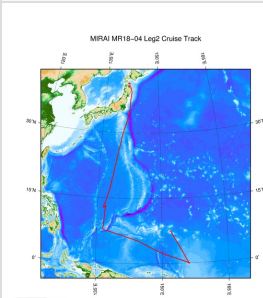
Radiosonde: Processed (DMO)-Corrected

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](#)

MR18-04 Leg2

Ship Name: MIRAI

Period: 2018-08-12 - 2018-09-06

Chief Scientist: Masaki Katsumata (JAMSTEC)

Proposal The observational study to construct and extend the "western Pacific super site network"

Title:

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Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

MIRAI MR18-04 Leg2 Radiosonde

Last Modified: 2020-09-06

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

Cruise ID: [MR18-04 Leg2](#)

Radiosonde: Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

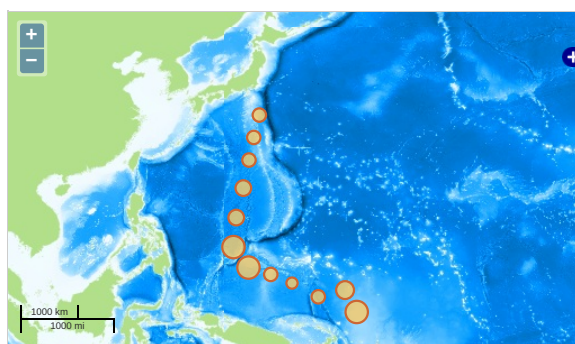
Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

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.

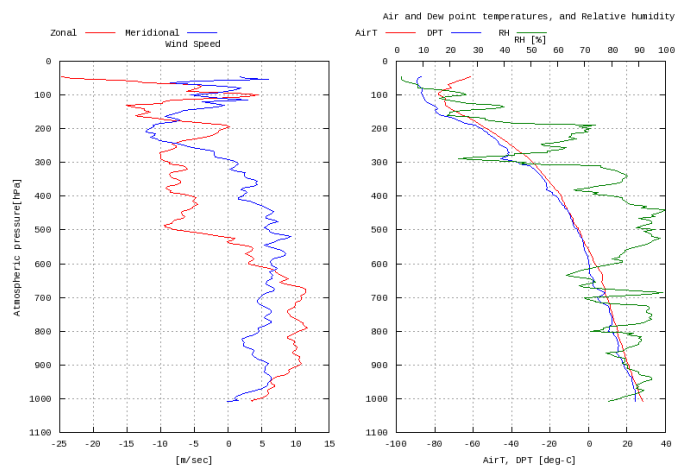


— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

Figures

18081400

MR18-04 Leg2: 18081400
Radiosonde



Data List

☐ File names

☐ 18081400.dat

☐ 18081406.dat

☐ 18081412.dat

☐ 18081418.dat

☐ 18081500.dat

☐ 18081506.dat

☐ 18081512.dat

☐ 18081518.dat

☐ 18081600.dat

☐ 18081606.dat

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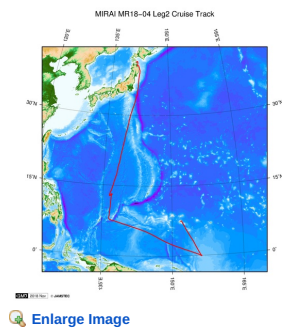
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Related Information



MR18-04 Leg2

Ship Name: MIRAI

Period: 2018-08-12 - 2018-09-06

Chief Scientist: Masaki Katsumata (JAMSTEC)

Proposal The observational study to construct and extend the "western Pacific super site network"

Title:

Update History

2020-09-06	An observation data was registerd.
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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:

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海洋研究開発機構
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY