

MIRAI MR17-05C Radiosonde

Last Modified: 2017-11-21

ReadMe Observation Data Data Format

Cruise ID: **MR17-05C**

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/MR17-05C_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 [%]	
17082600.dat	2017/08/25	23:31	60.36N	173.61W	RS41-SGP	M4430397	303	0.96	N/A	0.4	N/A	
17082612.dat	2017/08/26	11:30	62.33N	173.88W	RS41-SGP	M4830467	276	1.03	N/A	0.1	N/A	
17082700.dat	2017/08/26	23:30	63.13N	174.01W	RS41-SGP	M4430400	304	1.02	N/A	0.3	N/A	
17082712.dat	2017/08/27	11:30	64.18N	171.55W	RS41-SGP	M4430401	305	0.82	N/A	0.3	N/A	
17082800.dat	2017/08/27	23:23	65.28N	169.05W	RS41-SGP	M4020144	334	0.87	N/A	0.4	N/A	
17082806.dat	2017/08/28	05:30	66.11N	168.85W	RS41-SGP	M4830445	278	0.62	N/A	0.2	N/A	
17082812.dat	2017/08/28	11:30	67.03N	168.87W	RS41-SGP	M4830466	278	0.78	N/A	0.3	N/A	
17082818.dat	2017/08/28	17:30	67.68N	168.84W	RS41-SGP	M4620084	293	1.02	N/A	0.3	N/A	
17082900.dat	2017/08/28	23:30	68.25N	168.80W	RS41-SGP	M4830468	278	0.72	N/A	0.2	N/A	
17082906.dat	2017/08/29	05:30	69.00N	168.74W	RS41-SGP	M4720109	287	1.05	N/A	0.2	N/A	
17082912.dat	2017/08/29	11:30	69.80N	168.76W	RS41-SGP	M4550095	298	0.73	N/A	0.3	N/A	
17082918.dat	2017/08/29	17:30	70.64N	168.75W	RS41-SGP	M4830423	279	0.93	N/A	0.2	N/A	
17083000.dat	2017/08/29	23:30	71.36N	168.76W	RS41-SGP	M4720030	287	1.02	N/A	0.3	N/A	
17083006.dat	2017/08/30	05:31	72.00N	168.75W	RS41-SGP	M4830458	280	1.09	N/A	0.2	N/A	Snow
17083012.dat	2017/08/30	11:30	72.40N	166.65W	RS41-SGP	M4830422	280	0.75	N/A	0.2	N/A	
17083018.dat	2017/08/30	17:30	72.56N	163.96W	RS41-SGP	M4830465	280	1.01	N/A	0.2	N/A	
17083100.dat	2017/08/30	23:28	72.80N	161.35W	RS41-SGP	M4020141	337	1.32	N/A	0.4	N/A	
17083106.dat	2017/08/31	05:30	72.32N	159.54W	RS41-SGP	M4830421	281	0.51	N/A	0.2	N/A	
17083112.dat	2017/08/31	11:30	71.79N	158.30W	RS41-SGP	M4020143	338	1.06	N/A	0.3	N/A	
17083118.dat	2017/08/31	17:16	71.42N	157.53W	RS41-SGP	M4830462	281	0.62	N/A	0.2	N/A	
17083124.dat	2017/08/31	23:28	71.23N	157.20W	RS41-SGP	M4830442	288	0.92	N/A	0.4	N/A	

	17090100.dat	2017/09/01	23:28	71.23N	157.30W	RS41-SGP	M4620142	282	0.92		N/A	0.4	N/A	
	17090106.dat	2017/09/01	05:30	71.77N	156.60W	RS41-SGP	M4830461	282	0.85		N/A	0.2	N/A	
	17090112.dat	2017/09/01	14:28	71.80N	155.40W	RS41-SGP	M4720110	290	0.99	Atmospheric pressure	N/A	0.4	N/A	
	17090118.dat	2017/09/01	17:21	71.66N	155.05W	RS41-SGP	M4720111	290	0.78	[hPa]	N/A	0.3	N/A	
	17090200.dat	2017/09/01	23:29	71.77N	155.28W	RS41-SGP	M4830464	282	1.00		N/A	0.3	N/A	
	17090206.dat	2017/09/02	05:43	72.47N	155.47W	RS41-SGP	M4720113	291	1.01		N/A	0.3	N/A	
	17090212.dat	2017/09/02	11:30	72.30N	155.34W	RS41-SGP	M4830460	283	1.58		N/A	0.2	N/A	
	17090218.dat	2017/09/02	17:30	72.52N	155.40W	RS41-SGP	M4720114	291	0.72		N/A	0.3	N/A	
	17090300.dat	2017/09/02	23:13	72.48N	155.42W	RS41-SGP	M4830493	283	0.89		N/A	0.2	N/A	Fog
	17090306.dat	2017/09/03	05:29	72.47N	155.39W	RS41-SGP	M4550096	303	1.04		N/A	0.3	N/A	
	17090312.dat	2017/09/03	11:13	72.13N	153.52W	RS41-SGP	M4620112	299	1.05		N/A	0.3	N/A	
	17090318.dat	2017/09/03	17:30	71.75N	151.50W	RS41-SGP	M4830609	284	0.99		N/A	0.2	N/A	
	17090400.dat	2017/09/03	23:30	71.57N	152.00W	RS41-SGP	M4630002	298	1.02		N/A	0.3	N/A	
	17090406.dat	2017/09/04	05:14	71.42N	152.66W	RS41-SGP	M4620113	300	0.93		N/A	0.3	N/A	
	17090412.dat	2017/09/04	11:30	71.35N	151.53W	RS41-SGP	M4830352	285	1.77		N/A	0.2	N/A	
	17090418.dat	2017/09/04	17:30	71.68N	152.50W	RS41-SGP	M4620005	300	0.73		N/A	0.3	N/A	Fog
	17090500.dat	2017/09/04	23:28	71.97N	154.02W	RS41-SGP	M4940071	277	0.93		N/A	0.2	N/A	Fog
	17090506.dat	2017/09/05	05:29	72.08N	155.04W	RS41-SGP	M4940072	278	0.96		N/A	0.2	N/A	Fog
	17090512.dat	2017/09/05	11:23	72.29N	156.00W	RS41-SGP	M4820589	287	0.96		N/A	0.2	N/A	
	17090518.dat	2017/09/05	17:25	71.98N	156.82W	RS41-SGP	M4210120	330	0.79		N/A	0.2	N/A	Fog
	17090600.dat	2017/09/05	23:17	71.89N	156.03W	RS41-SGP	M4940130	278	1.75		N/A	0.1	N/A	
	17090606.dat	2017/09/06	05:10	71.74N	155.20W	RS41-SGP	M4620077	302	0.93		N/A	0.4	N/A	
	17090612.dat	2017/09/06	11:29	71.74N	155.20W	RS41-SGP	M4820531	288	0.91		N/A	0.2	N/A	
	17090618.dat	2017/09/06	17:30	71.73N	155.19W	RS41-SGP	M4940129	279	1.22		N/A	0.2	N/A	
	17090700.dat	2017/09/06	23:20	71.78N	155.34W	RS41-SGP	M4940131	279	1.04		N/A	0.3	N/A	
	17090706.dat	2017/09/07	05:31	72.77N	155.38W	RS41-SGP	M4830608	288	0.79		N/A	0.2	N/A	
	17090712.dat	2017/09/07	11:30	73.84N	155.97W	RS41-SGP	M4830136	288	0.63		N/A	0.2	N/A	
	17090718.dat	2017/09/07	17:30	74.95N	156.57W	RS41-SGP	M4150178	335	1.11		N/A	0.2	N/A	
	17090800.dat	2017/09/07	23:30	76.08N	157.08W	RS41-SGP	M4830631	288	0.97		N/A	0.2	N/A	
	17090806.dat	2017/09/08	05:12	76.44N	157.28W	RS41-SGP	M4830135	289	1.04		N/A	0.2	N/A	
	17090812.dat	2017/09/08	11:30	75.66N	156.81W	RS41-SGP	M4940128	281	0.99		N/A	0.2	N/A	
	17090818.dat	2017/09/08	17:30	74.40N	156.21W	RS41-SGP	M4210103	333	1.11		N/A	0.2	N/A	
	17090900.dat	2017/09/08	23:30	74.00N	156.07W	RS41-SGP	M4020172	346	1.06		N/A	0.4	N/A	
	17090906.dat	2017/09/09	05:29	74.00N	156.10W	RS41-SGP	M4820532	291	1.05		N/A	0.2	N/A	
	17090912.dat	2017/09/09	11:30	72.93N	155.68W	RS41-SGP	M4820529	291	1.29		N/A	0.2	N/A	
	17090918.dat	2017/09/09	17:30	71.78N	155.35W	RS41-SGP	M4820522	291	0.87		N/A	0.2	N/A	
	17091000.dat	2017/09/09	23:30	71.80N	155.34W	RS41-SGP	M4820582	291	0.82		N/A	0.2	N/A	
	17091006.dat	2017/09/10	05:30	71.80N	155.33W	RS41-SGP	M4820581	292	0.96		N/A	0.2	N/A	
	17091012.dat	2017/09/10	11:30	72.59N	157.37W	RS41-SGP	M4820534	292	1.10		N/A	0.2	N/A	
	17091018.dat	2017/09/10	17:30	73.06N	159.03W	RS41-SGP	M4820533	292	1.05		N/A	0.3	N/A	
	17091100.dat	2017/09/10	23:30	73.32N	160.89W	RS41-SGP	M4940070	283	1.04		N/A	0.0	N/A	
	17091106.dat	2017/09/11	05:30	73.52N	159.86W	RS41-SGP	M4820580	293	0.70		N/A	0.2	N/A	
	17091112.dat	2017/09/11	11:14	73.16N	162.24W	RS41-SGP	M4820530	293	0.83		N/A	0.2	N/A	
	17091118.dat	2017/09/11	17:30	73.29N	161.02W	RS41-SGP	M4820578	293	0.87		N/A	0.2	N/A	
	17091200.dat	2017/09/11	23:30	73.32N	160.85W	RS41-SGP	M4830133	292	0.86		N/A	0.2	N/A	
	17091206.dat	2017/09/12	05:30	74.00N	161.00W	RS41-SGP	M4940127	285	1.03		N/A	0.2	N/A	
	17091212.dat	2017/09/12	11:12	73.69N	161.28W	RS41-SGP	M4830137	293	0.80		N/A	0.2	N/A	
	17091218.dat	2017/09/12	17:56	74.07N	162.00W	RS41-SGP	M4820579	294	1.12		N/A	0.2	N/A	
	17091300.dat	2017/09/12	23:29	73.76N	162.57W	RS41-SGP	M4940132	285	0.41		N/A	0.2	N/A	
	17091303.dat	2017/09/13	02:03	73.24N	163.34W	RS41-SGP	M4430447	322	0.91		N/A	0.3	N/A	
	17091306.dat	2017/09/13	05:29	72.89N	163.00W	RS41-SGP	M4840087	293	0.96		N/A	0.1	N/A	
	17091309.dat	2017/09/13	08:30	72.74N	162.44W	RS41-SGP	M4430444	322	0.78		N/A	0.3	N/A	
	17091312.dat	2017/09/13	11:30	72.56N	161.54W	RS41-SGP	M4430441	322	1.24		N/A	0.3	N/A	
	17091318.dat	2017/09/13	17:30	73.22N	160.87W	RS41-SGP	M4830619	294	1.14		N/A	0.2	N/A	
	17091400.dat	2017/09/13	23:30	73.46N	160.88W	RS41-SGP	M4840088	293	0.99		N/A	0.2	N/A	
	17091406.dat	2017/09/14	05:29	74.52N	161.92W	RS41-SGP	M4430449	323	1.12		N/A	0.3	N/A	
	17091412.dat	2017/09/14	11:30	74.52N	161.88W	RS41-SGP	M4620105	310	0.64		N/A	0.3	N/A	
	17091418.dat	2017/09/14	17:30	75.00N	162.34W	RS41-SGP	M4620073	310	1.18		N/A	0.3	N/A	
	17091500.dat	2017/09/14	23:24	75.01N	164.98W	RS41-SGP	M4830622	295	0.85		N/A	0.2	N/A	
	17091506.dat	2017/09/15	05:30	75.01N	167.21W	RS41-SGP	M4530190	317	0.98		N/A	0.3	N/A	
	17091512.dat	2017/09/15	11:29	75.00N	172.01W	RS41-SGP	M4620111	311	0.94		N/A	0.3	N/A	
	17091518.dat	2017/09/15	17:30	75.00N	176.95W	RS41-SGP	M4430450	324	0.77		N/A	0.3	N/A	
	17091600.dat	2017/09/15	23:10	75.26N	177.60W	RS41-SGP	M4620110	311	1.07		N/A	0.3	N/A	
	17091606.dat	2017/09/16	05:30	75.22N	177.75W	RS41-SGP	M4430443	325	0.80		N/A	0.4	N/A	
	17091612.dat	2017/09/16	11:30	75.01N	175.83W	RS41-SGP	M4720026	305	0.71		N/A	0.3	N/A	
	17091618.dat	2017/09/16	17:33	75.01N	172.14W	RS41-SGP	M4430434	325	1.54		N/A	0.3	N/A	
	17091700.dat	2017/09/16	23:30	75.01N	169.62W	RS41-SGP	M4840089	296	0.91		N/A	0.2	N/A	Snow
	17091703.dat	2017/09/17	02:30	75.00N	168.90W	RS41-SGP	M4430440	326	0.91		N/A	0.3	N/A	Blizzard
	17091706.dat	2017/09/17	05:11	74.53N	168.18W	RS41-SGP	M4840085	297	0.97		N/A	0.2	N/A	
	17091712.dat	2017/09/17	11:30	74.00N	168.75W	RS41-SGP	M4820577	299	0.93		N/A	0.2	N/A	
	17091718.dat	2017/09/17	17:30	73.00N	168.75W	RS41-SGP	M4430442	326	1.27		N/A	0.3	N/A	
	17091800.dat	2017/09/17	23:30	72.31N	168.74W	RS41-SGP	M4430439	326	1.02		N/A	0.3	N/A	
	17091806.dat	2017/09/18	05:29	71.09N	168.78W	RS41-SGP	M4830623	299	0.96		N/A	0.2	N/A	

17091812.dat	2017/09/18	17:30	68.59N	168.82W	RS41-SGP	M4430448	314	1.29	N/A	Calibration	0	N/A	
17091818.dat	2017/09/18	17:30	68.59N	168.82W	RS41-SGP	M4430448	327	0.74	N/A	Air	0.3	N/A	
17091900.dat	2017/09/18	23:30	68.03N	168.88W	RS41-SGP	M4830633	299	1.13	N/A	Atmospheric pressure	Relative humidity1	Relative humidity2	Note
17091906.dat	2017/09/19	05:30	68.57N	168.84W	RS41-SGP	M4830611	300	1.28	N/A	Temperature	0.3	N/A	Graupel
17091912.dat	2017/09/19	11:16	68.52N	168.84W	RS41-SGP	M4830634	300	1.04	N/A	[deg-C]	0.2	N/A	
17091918.dat	2017/09/19	17:13	68.20N	167.34W	RS41-SGP	M4830612	300	1.07	N/A		0.2	N/A	
17092000.dat	2017/09/19	23:20	67.75N	168.50W	RS41-SGP	M4830632	300	1.06	N/A		0.2	N/A	
17092006.dat	2017/09/20	05:20	67.20N	168.89W	RS41-SGP	M4830610	301	1.34	N/A		0.3	N/A	
17092012.dat	2017/09/20	11:19	66.31N	168.88W	RS41-SGP	M4720027	309	1.10	N/A		0.3	N/A	
17092018.dat	2017/09/20	17:30	65.73N	168.72W	RS41-SGP	M4620106	316	0.78	N/A		0.4	N/A	
17092100.dat	2017/09/20	23:30	65.22N	169.19W	RS41-SGP	M4830582	301	1.00	N/A		0.2	N/A	
17092112.dat	2017/09/21	11:30	64.41N	166.59W	RS41-SGP	M4620107	317	0.82	N/A		0.4	N/A	
17092200.dat	2017/09/21	23:29	64.24N	168.71W	RS41-SGP	M4620114	317	1.22	N/A		0.3	N/A	
17092212.dat	2017/09/22	11:30	62.85N	174.05W	RS41-SGP	M4840086	302	1.18	N/A		0.2	N/A	
17092300.dat	2017/09/22	23:30	60.67N	177.79W	RS41-SGP	M4830636	303	1.07	N/A		0.3	N/A	
17092312.dat	2017/09/23	11:31	58.68N	178.95E	RS41-SGP	M4830607	304	1.27	N/A		0.2	N/A	
17092400.dat	2017/09/23	23:29	56.72N	175.91E	RS41-SGP	M4830621	304	0.78	N/A		0.1	N/A	
17092412.dat	2017/09/24	11:30	54.77N	173.08E	RS41-SGP	M4830490	305	1.00	N/A		0.3	N/A	
17092500.dat	2017/09/24	23:29	52.84N	170.35E	RS41-SGP	M4620099	320	1.16	N/A		0.4	N/A	
17092512.dat	2017/09/25	11:29	50.92N	167.65E	RS41-SGP	M4830604	306	0.99	N/A		0.2	N/A	
17092600.dat	2017/09/25	23:29	48.97N	164.99E	RS41-SGP	M4620100	321	0.87	N/A		0.2	N/A	
17092612.dat	2017/09/26	11:30	47.07N	162.51E	RS41-SGP	M4620101	322	0.83	N/A		0.3	N/A	
17092700.dat	2017/09/26	23:30	45.29N	160.27E	RS41-SGP	M4830487	307	0.88	N/A		0.2	N/A	
17092712.dat	2017/09/27	11:30	43.98N	157.40E	RS41-SGP	M4620098	323	1.15	N/A		0.2	N/A	
17092800.dat	2017/09/27	23:30	42.42N	154.66E	RS41-SGP	M4720028	316	1.09	N/A		0.3	N/A	
17092812.dat	2017/09/28	11:29	41.08N	151.12E	RS41-SGP	M4830620	309	1.05	N/A		0.2	N/A	
17092900.dat	2017/09/28	23:30	40.33N	148.64E	RS41-SGP	M4620102	324	0.83	N/A		0.2	N/A	

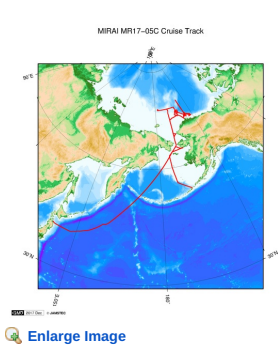
Reference

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



MR17-05C
Ship Name: MIRAI
Period: 2017-08-24 - 2017-10-01
Chief Scientist: Shigeto Nishino (JAMSTEC)
Project Name: [Arctic Ocean Climate System Reaserch]
Proposal ▶ Arctic Challenge for Sustainability (ArCS)
Title:

Update History

2017-11-21 An observation data was registered.

JAMSTEC

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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 MR17-05C Radiosonde

Last Modified: 2017-11-21

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

Cruise ID: [MR17-05C](#)

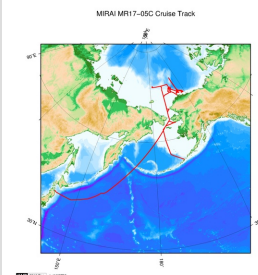
Radiosonde: Processed (DMO)-Corrected

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](#)

MR17-05C

Ship Name: MIRAI

Period: 2017-08-24 - 2017-10-01

Chief Scientist: Shigeto Nishino (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Arctic Challenge for Sustainability (ArCS)

Title:

Update History

2017-11-21 An observation data was registered.

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MIRAI MR17-05C Radiosonde

Last Modified: 2017-11-21

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

Cruise ID: [MR17-05C](#)

Radiosonde: Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

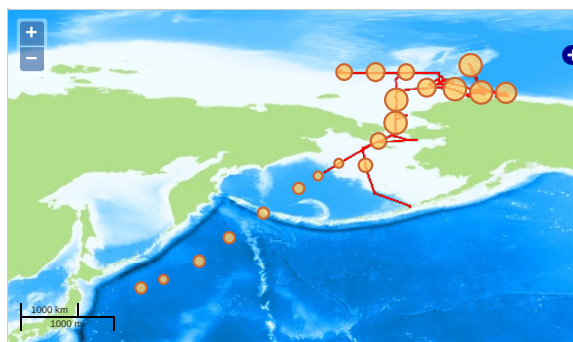
Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Wind speed (zonal, meridional), Height

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.

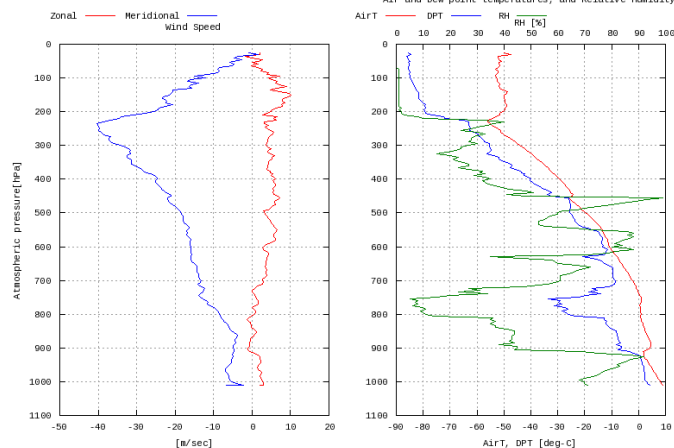


— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

Figures

17082600

MR17-05C: 17082600
Radiosonde



Data List

☐ File names

☐ 17082600.dat

☐ 17082612.dat

☐ 17082700.dat

☐ 17082712.dat

☐ 17082800.dat

☐ 17082806.dat

☐ 17082812.dat

☐ 17082818.dat

☐ 17082900.dat

☐ 17082906.dat

☐ 17082912.dat

☐ 17082918.dat

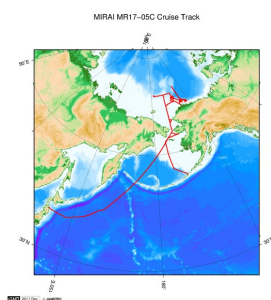
☐ 17083000.dat

☐ 17083006.dat

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	17091006.dat
	17091012.dat
	17091018.dat
	17091100.dat
	17091106.dat
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	17091200.dat
	17091206.dat
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	17091712.dat
	17091718.dat

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<input type="checkbox"/>	17092800.dat
<input type="checkbox"/>	17092812.dat
<input type="checkbox"/>	17092900.dat

Related Information



[Enlarge Image](#)

MR17-05C

Ship Name: MIRAI
 Period: 2017-08-24 - 2017-10-01
 Chief Scientist: Shigeto Nishino (JAMSTEC)
 Project Name: [Arctic Ocean Climate System Reaserch]
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