

MIRAI MR00-K01 Marine Meteorology

Last Modified: 2014-07-12

[ReadMe](#)

[Observation
Data](#)

[Data Format](#)

Cruise ID: [MR00-K01](#)

Marine Meteorology: Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Sea surface temperature, Zonal and meridional wind component, Precipitation, Shortwave radiation, Longwave radiation

Science Keywords:

ATMOSPHERE > ATMOSPHERIC PRESSURE > SEA LEVEL PRESSURE

ATMOSPHERE > ATMOSPHERIC RADIATION > LONGWAVE RADIATION

ATMOSPHERE > ATMOSPHERIC RADIATION > SHORTWAVE RADIATION

ATMOSPHERE > ATMOSPHERIC TEMPERATURE > AIR TEMPERATURE

ATMOSPHERE > ATMOSPHERIC WATER VAPOR > DEW POINT TEMPERATURE

ATMOSPHERE > ATMOSPHERIC WATER VAPOR > HUMIDITY

ATMOSPHERE > PRECIPITATION

OCEANS > OCEAN TEMPERATURE > SEA SURFACE TEMPERATURE

OCEANS > OCEAN WAVES > SIGNIFICANT WAVE HEIGHT

OCEANS > OCEAN WINDS > SURFACE WINDS

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR00-K01_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.

Period (UTC)

2000-01-05 23:50 – 2000-02-06 23:00

Instrument

Instrument:

General maritime meteorological observation system



Instrument:

SOAR (Shipboard Oceanographic and Atmospheric Radiation)(- MR20-01)



Overview

"MIRAI meteorological integrated dataset" is a set of "suitably composed data" which consists of 10-minute-average corrected Atmospheric Pressure, Air Temperature, Relative Humidity, Wind Direction and Speed, Precipitation, Radiation, Sea Surface Temperature, and Wave Height observed by R/V MIRAI. The correction and processing method was produced by Dr. K. Yoneyama (IORGC/JAMSTEC) in cooperation with DMO. The actual data processing was conducted by DMO. See [here](#) for detailed correction and processing method.

Specifications

Sensors	Type	Manufacturer	Location (from sea surface)
Anemometer	KE-500	Koshin Denki, Japan	Foremast (24m)
Air temperature	FT	Koshin Denki, Japan	Starboard and port side at compass deck (21m)
Dewpoint temperature	DW-1	Koshin Denki, Japan	Starboard and port side at compass deck (21m)
Thermometer (SST)	SBE 3S	Sea-Bird Electronics, USA	Bow thruster room (-4.5m)
Barometer	F451	Yokogawa, Japan	Weather observation room at captain deck (14m)
Rain guage	50202	R.M. Young, USA	Compass deck (19m)
Radiometer (shortwave)	MS-801	EKO Instruments Trading Co., Ltd., Japan	Radarmast (28m)
Radiometer (long-wave)	MS-200	EKO Instruments Trading Co., Ltd., Japan	Radarmast (28m)
Wave height meter	WM-2	Tsurumi-Seiki, Japan	Bow (10m)

Sensors information

Air temperature sensor calibration date

Starboard side : 1996/05/15

Port side : 1996/05/15

Dewpoint temperature sensor calibration date

Starboard side : 1996/04/16

Port side : 1996/04/16

Rain guage calibration (Using the revision of rain data)

Minimum value (0 cc) : 0.00 mm

Maximum value (500 cc) : 50.00 mm

Date : ---/---/---

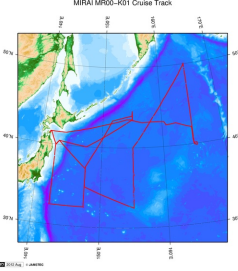
Need raw data?

If you would like the raw data set, please contact us from "Contact Us" above.

Note


SOARWind, rain, and radiation data from the SMet system were used because the SOAR meteorological data were not collected during this cruise.

Related Information



MIRAI MR00-K01 Cruise Track

MR00-K01
Ship Name: MIRAI
Period: 2000-01-05 - 2000-02-06
Chief Scientist: Makio Honda (JAMSTEC)
Project Name: [Station KEO, Station KNOT]

 [Enlarge Image](#)

Update History	
2014-07-12	An observation data was registerd.
2012-12-26	An observation data was registerd.
2012-12-25	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:



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

Copyright 2011 Japan Agency for Marine-Earth Science and Technology

MIRAI MR00-K01 Marine Meteorology

Last Modified: 2014-07-12

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

Cruise ID: **MR00-K01**

Marine Meteorology: Processed (DMO)-Corrected

Data Policy: **JAMSTEC**

Meteorology Corrected

Single space separated.

No.	Column	Content	Unit	format (nodata or baddata)	Remarks
1	1-12	Date and time [YYYYMMDDhhmm]		i12	Every 10 minutes* * Time stamp is set at the end of average
2	14-21	Julian day [DDD.DDDD]		f8.4	Every 10 minutes*
3	23-29	Longitude [0 to 360]	degree	f7.3 (999.999)	Location at time stamp East longitude
4	31-37	Latitude [-90 to 90]	degree	f7.3 (999.999)	Location at time stamp +: North latitude -: South latitude
5	39-44	Atmospheric pressure	hPa	f6.1 (9999.9)	10-minute mean*
6	46-50	Air temperature	deg-C	f5.1 (999.9)	10-minute mean* Data is selected on the windward side
7	52-56	Dewpoint temperature	deg-C	f5.1 (999.9)	10-minute mean* Calculated from 'Air temperature' and 'Relative humidity' using WMO's Formula(**) for liquid water ** WMO-No.8 (Guide to Meteorological Instruments and Methods of Observation)
8	58-62	Relative humidity	%	f5.1 (999.9)	10-minute mean* Data is selected on the windward side
9	64-70	Sea surface temperature (SST)	deg-C	f7.4 (99.9999)	10-minute mean* From EPCS/TSG
10	72-76	Wind speed (zonal)	m/sec	f5.1 (999.9)	10-minute mean* No anemometer height adjustment
11	78-82	Wind speed (meridional)	m/sec	f5.1 (999.9)	10-minute mean* No anemometer height adjustment
12	84-89	Rainfall intensity	mm/hr	f6.2 (999.99)	10-minute mean*
13	91-96	Short wave radiation	W/m2	f6.1 (9999.9)	10-minute mean*
14	98-102	Long wave radiation	W/m2	f5.1 (999.9)	10-minute mean*
15	104-108	Significant wave height	m	f5.2 (99.99)	Calculated every an hour Calculated every 3 hours, before March 2003
16	110-114	Wave period	second	f5.2 (99.99)	Calculated every an hour Calculated every 3 hours, before March 2003

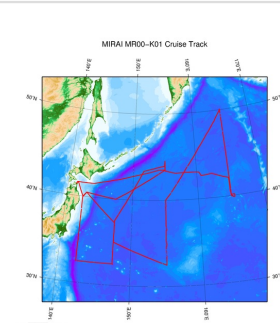
Data Example

```

YYYYMMDDhhmm DDD.DDDD Lon Lat Press AT DT RH SST WindU WindV Rain SWR LWR WH WP
200611290000 333.0000 77.314 2.715 1009.2 27.6 23.7 79.2 28.8732 -2.5 -1.6 0.00 0.0 388.1 0.94 7.69
200611290010 333.0070 77.346 2.703 1009.3 27.6 23.7 79.3 28.8931 -2.3 -1.1 0.00 0.0 388.3 0.96 7.92
200611290020 333.0139 77.378 2.692 1009.5 27.6 23.8 79.8 28.8957 -2.0 -0.5 0.00 0.0 387.7 0.96 7.92
200611290030 333.0208 77.410 2.681 1009.6 27.6 23.7 79.1 28.9206 -2.3 -1.0 0.00 0.0 388.0 0.96 7.92
200611290040 333.0278 77.442 2.670 1009.7 27.7 23.6 78.6 28.9477 -2.4 -0.7 0.00 0.0 386.7 0.96 7.92
200611290050 333.0347 77.474 2.658 1009.9 27.7 23.8 79.3 28.9166 -2.7 -1.2 0.00 2.4 390.7 0.96 7.92
200611290100 333.0417 77.506 2.647 1010.1 27.7 23.7 79.1 28.8948 -3.0 -1.5 0.00 12.6 390.8 0.96 7.92

```

Related Information



[Enlarge Image](#)

MR00-K01

Ship Name: MIRAI
Period: 2000-01-05 - 2000-02-06
Chief Scientist: Makio Honda (JAMSTEC)
Project Name: [Station KEO, Station KNOT]

Update History

2014-07-12	An observation data was registerd.
2012-12-26	An observation data was registerd.
2012-12-25	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 国立研究開発法人
海洋研究開発機構
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

MIRAI MR00-K01 Marine Meteorology

Last Modified: 2014-07-12

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

Cruise ID: **MR00-K01**

Marine Meteorology: Processed (DMO)-Corrected

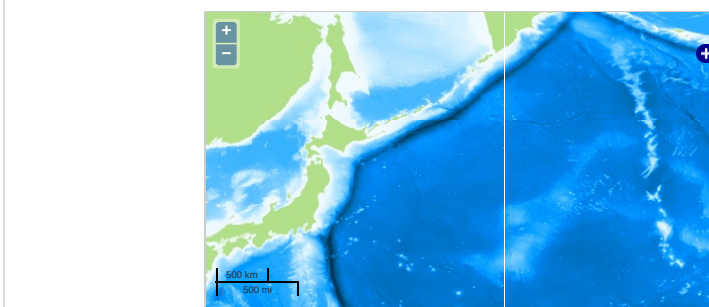
Data Policy: **JAMSTEC**

Observation Items: Atmospheric pressure, Air temperature, Dew point temperature, Relative humidity, Sea surface temperature, Zonal and meridional wind component, Precipitation, Shortwave radiation, Longwave radiation

Science Keywords:

ATMOSPHERE	> ATMOSPHERIC PRESSURE	> SEA LEVEL PRESSURE
ATMOSPHERE	> ATMOSPHERIC RADIATION	> LONGWAVE RADIATION
ATMOSPHERE	> ATMOSPHERIC RADIATION	> SHORTWAVE RADIATION
ATMOSPHERE	> ATMOSPHERIC TEMPERATURE	> AIR TEMPERATURE
ATMOSPHERE	> ATMOSPHERIC WATER VAPOR	> DEW POINT TEMPERATURE
ATMOSPHERE	> ATMOSPHERIC WATER VAPOR	> HUMIDITY
ATMOSPHERE	> PRECIPITATION	
OCEANS	> OCEAN TEMPERATURE	> SEA SURFACE TEMPERATURE
OCEANS	> OCEAN WAVES	> SIGNIFICANT WAVE HEIGHT
OCEANS	> OCEAN WINDS	> SURFACE WINDS

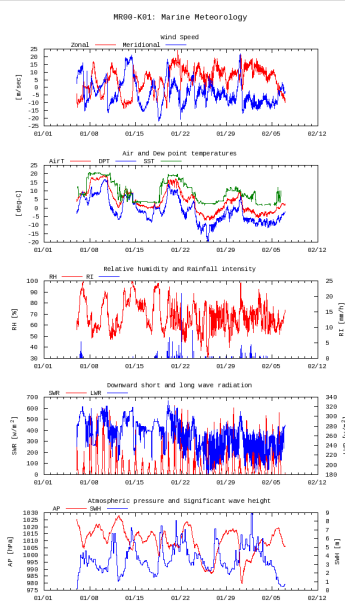
Observation Map



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

Imagery reproduced from ...

Figures



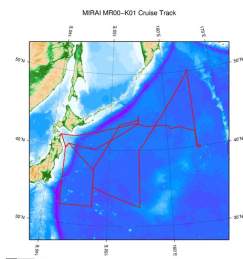
Data List

[Add to Basket](#)

File names

☐ MR00-K01.dat

Related Information



[Enlarge Image](#)

MR00-K01
Ship Name: MIRAI
Period: 2000-01-05 - 2000-02-06
Chief Scientist: Makio Honda (JAMSTEC)
Project Name: [Station KEO, Station KNOT]

Update History

2014-07-12	An observation data was registered.
2012-12-26	An observation data was registered.
2012-12-25	An observation data was registered.

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:

