

MIRAI MR18-05C Partial Pressure of CO2 (pCO2)

Last Modified: 2019-07-31

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

Cruise ID: [MR18-05C](#)

Partial Pressure of CO2 (pCO2): Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items: CO2, Air temperature, Atmospheric pressure, Wind direction, Wind speed, Sea surface temperature, Sea surface salinity

Science Keywords:

OCEANS > OCEAN CHEMISTRY > CARBON DIOXIDE

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR18-05C_all.pdf

For Using Data

Principal Investigator

Akihiko Murata (JAMSTEC)

Use Constraints

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

Data Citation

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

Instrument

Instrument:

pCO2 measurement system (MR10-07

-)



About this data

PI (Principal Investigator) : Akihiko Murata

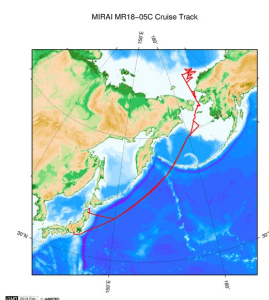
Physical and Chemical Oceanography Research Group Global Ocean Observation Research Center Research Institute for Global Change (RIGC)

Japan Agency for Marine-Earth Science and Technology (JAMSTEC),

2-15, Natsushima, Yokosuka, Kanagawa, Japan 237-0061,

murataa@jamstec.go.jp

Related Information



[Enlarge Image](#)

MR18-05C

Ship Name: MIRAI

Period: 2018-10-24 - 2018-12-06

Chief Scientist: Jun Inoue (National Institute of Polar Research)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Predictability study on weather and sea-ice forecasts linked with user engagement

Title:

Update History

2019-07-31 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:

MIRAI MR18-05C Partial Pressure of CO₂ (pCO₂)

Last Modified: 2019-07-31

ReadMe Observation Data **Data Format**

Cruise ID: [MR18-05C](#)

Partial Pressure of CO₂ (pCO₂): Processed (PI)

Data Policy: [JAMSTEC](#)

pCO₂ FORMAT_J (MR11-08-)

Air-xCO₂

The file is in fixed comma separated text file (csv) format.

The "missing value" is defined as -999.

Column NO.	Column Heading	Comments
1	Date (UTC)	Year, Month, Day
2	Time (UTC)	Hour, Minute, Second
3	Latitude (degree)	Positive in north
4	Longitude (degree)	Degree in eastward (0 - 360)
5	Sea surface temperature (°C)	
6	Sea surface salinity (PSU)	
7	Air pressure (hPa)	
8	Wind direction (degree)	
9	Wind speed (m/s)	
10	xCO ₂ in dry air (ppmv)	

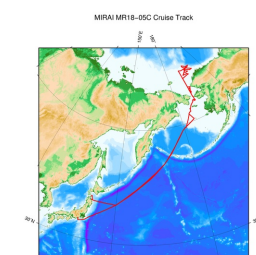
Sea-xCO₂

The file is in fixed comma separated text file (csv) format.

The "missing value" is defined as -999.

Column NO.	Column Heading	Comments
1	Date (UTC)	Year, Month, Day
2	Time (UTC)	Hour, Minute, Second
3	Latitude (degree)	Positive in north
4	Longitude (degree)	Degree in eastward (0 - 360)
5	Sea surface temperature (°C)	
6	Sea surface salinity (PSU)	
7	Equilibrator temperature (°C)	
8	Equilibrator pressure (hPa)	
9	Air pressure (hPa)	
10	xCO ₂ in equilibrator (ppmv)	
11	pCO ₂ in equilibrator (µatm)	
12	pCO ₂ at SST (µatm)	
13	xCO ₂ in dry air (ppmv)	

Related Information



[Enlarge Image](#)

MR18-05C

Ship Name: MIRAI

Period: 2018-10-24 - 2018-12-06

Chief Scientist: Jun Inoue (National Institute of Polar Research)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Predictability study on weather and sea-ice forecasts linked with user engagement

Title:

Update History

2019-07-31 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

Go to a Dive Information

Dive ID: Go

MIRAI MR18-05C Partial Pressure of CO2 (pCO2)

Last Modified: 2019-07-31

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

Cruise ID: [MR18-05C](#)

Partial Pressure of CO2 (pCO2): Processed (PI)

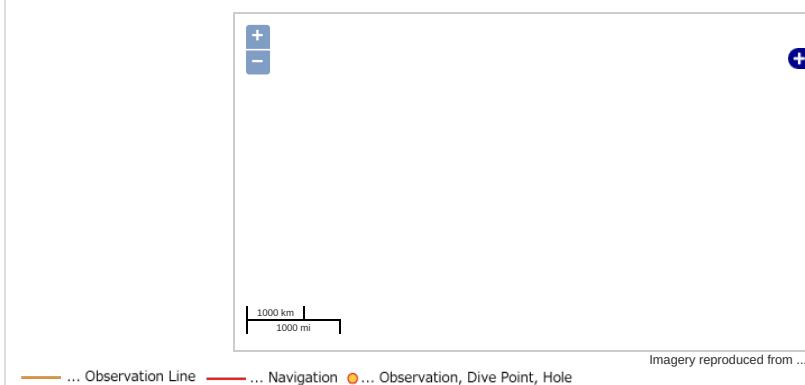
Data Policy: [JAMSTEC](#)

Observation Items: CO2, Air temperature, Atmospheric pressure, Wind direction, Wind speed, Sea surface temperature, Sea surface salinity

Science Keywords:

OCEANS > OCEAN CHEMISTRY > CARBON DIOXIDE

Observation Map



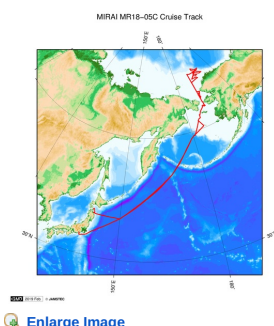
Data List

☐ File names

☐ MR18-05c_air.csv

☐ MR18-05c_sea.csv

Related Information



[Enlarge Image](#)

MR18-05C

Ship Name: MIRAI

Period: 2018-10-24 - 2018-12-06

Chief Scientist: Jun Inoue (National Institute of Polar Research)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Predictability study on weather and sea-ice forecasts linked with user engagement

Title:

Update History

2019-07-31

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: