

## MIRAI MR14-04 Leg1 Partial Pressure of CO2 (pCO2)

Last Modified: 2019-01-08

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

Cruise ID: [MR14-04 Leg1](#)

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/MR14-04\\_leg1-2\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR14-04_leg1-2_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

- )



### Data Citation

Please cite [WHP P01 Revisit in 2014 Data Book](#).

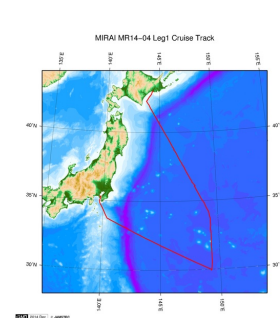
### Overview

For details about observation, please refer to the Data book [WHP P01 Revisit in 2014 Data Book](#) and Readme document attached with data file.

### About this data

For MR14-04 cruise, pCO2 data sets of Leg 1 and Leg 2 are combined as a continuous data.

### Related Information



[Enlarge Image](#)

#### MR14-04 Leg1

Ship Name: MIRAI

Period: 2014-07-08 - 2014-07-15

Chief Scientist: Hiroshi Uchida (JAMSTEC)

Project Name: [POST-WOCE Hydrography]

Proposal ▶ Collaborative study on the zonal distribution of dissolved organic carbon in the far North

Title: Pacific

### Update History

2019-01-08 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 MR14-04 Leg1 Partial Pressure of CO2 (pCO2)

Last Modified: 2019-01-08

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

Cruise ID: [MR14-04 Leg1](#)

Partial Pressure of CO2 (pCO2) Processed (PI)

Data Policy: [JAMSTEC](#)

### pCO2 FORMAT\_J (MR11-08-)

#### Air-xCO<sub>2</sub>

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	xCO2 in dry air (ppmv)	

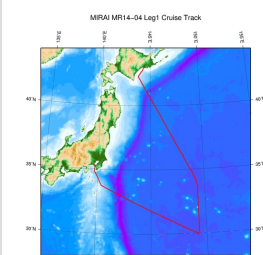
#### Sea-xCO<sub>2</sub>

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	xCO2 in equilibrator (ppmv)	
11	pCO2 in equilibrator (µatm)	
12	pCO2 at SST (µatm)	
13	xCO2 in dry air (ppmv)	

### Related Information



[Enlarge Image](#)

#### MR14-04 Leg1

Ship Name: MIRAI

Period: 2014-07-08 - 2014-07-15

Chief Scientist: Hiroshi Uchida (JAMSTEC)

Project Name: [POST-WOCE Hydrography]

Proposal ▶ Collaborative study on the zonal distribution of dissolved organic carbon in the far North Pacific

Title:

### Update History

2019-01-08 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 MR14-04 Leg1 Partial Pressure of CO2 (pCO2)

Last Modified: 2019-01-08

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

Cruise ID: [MR14-04 Leg1](#)

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

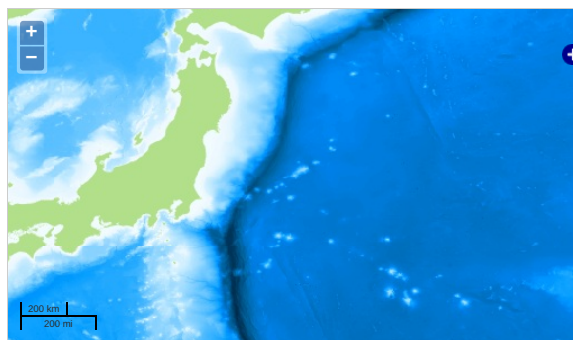
Data Policy: [JAMSTEC](#)

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



Imagery reproduced from ...

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

### Data List

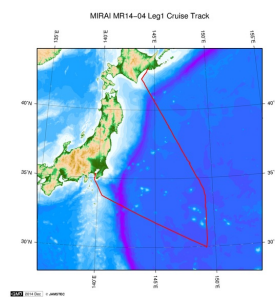
☐ File names

☐ MR14-04\_air.csv

☐ MR14-04\_sea.csv

☐ readme\_pco2.pdf

### Related Information



[Enlarge Image](#)

#### MR14-04 Leg1

Ship Name: MIRAI

Period: 2014-07-08 - 2014-07-15

Chief Scientist: Hiroshi Uchida (JAMSTEC)

Project Name: [POST-WOCE Hydrography]

Proposal ▶ Collaborative study on the zonal distribution of dissolved organic carbon in the far North

Title: Pacific

### Update History

2019-01-08 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

[KAICO](#)  
[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: