

## MIRAI MR11-08 Leg2 Partial Pressure of CO2 (pCO2)

Last Modified: 2017-04-11

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

Cruise ID: [MR11-08 Leg2](#)

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/MR11-08\\_leg1-3\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR11-08_leg1-3_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

-)



### Overview

Please see the [Data book](#) for details of data.

### Information on pCO2 measurement

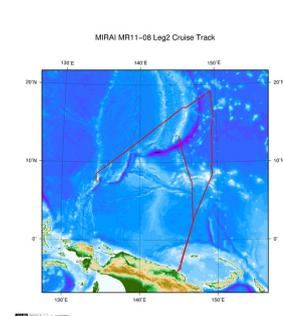
Instrument : pCO<sub>2</sub> measuring system ; Nippon ANS Ltd.

Method : Non-dispersive infrared gas analyzer (NDIR) / Equilibrator : showerhead-type

Precision : -

Reference Material/Calibration : The CO<sub>2</sub> standard gases were calibrated by the Scripps Institution of Oceanography

### Related Information



#### MR11-08 Leg2

Ship Name: MIRAI

Period: 2011-12-20 - 2012-01-12

Chief Scientist: Akihiko Murata (JAMSTEC)

Project Name: [POST-WOCE Hydrography]

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### Update History

2017-04-11	An observation data was registerd.
2015-01-22	An observation data was registerd.
2014-04-30	An observation data was registerd.

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#### 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

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**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.

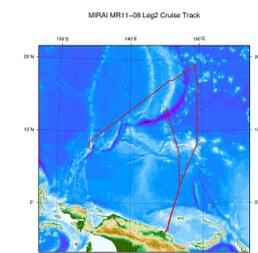
Column NO.	Column Heading	Comments
1	Date (UTC)	Year, Month, Day
2	Time (UTC)	Hour, Minute, Second
3	Latitude (degree)	Positive in north
4	Longitude (degree)	Degree in eastward (0 - 360)
5	Sea surface temperature (°C)	
6	Sea surface salinity (PSU)	
7	Air pressure (hPa)	
8	Wind direction (degree)	
9	Wind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



**MR11-08 Leg2**  
 Ship Name: MIRAI  
 Period: 2011-12-20 - 2012-01-12  
 Chief Scientist: Akihiko Murata (JAMSTEC)  
 Project Name: [POST-WOCE Hydrography]

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### Observation Map



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

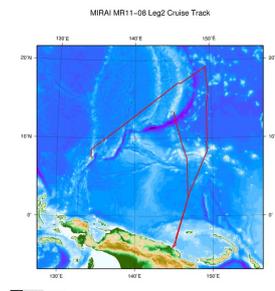
### Data List

File names

MR11-08\_leg2\_air.csv

MR11-08\_leg2\_sea.csv

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