

## 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

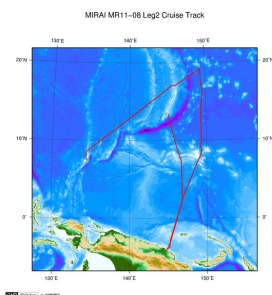
Instrument : pCO<sub>2</sub> measuring system ; Nippon ANS Ltd.

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



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#### MR11-08 Leg2

Ship Name: MIRAI

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

Chief Scientist: Akihiko Murata (JAMSTEC)

Project Name: [POST-WOCE Hydrography]

### 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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### 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)	

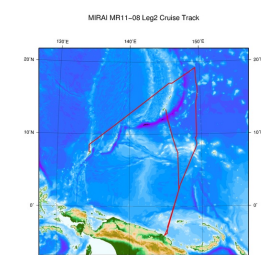
#### Sea-xCO<sub>2</sub>

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



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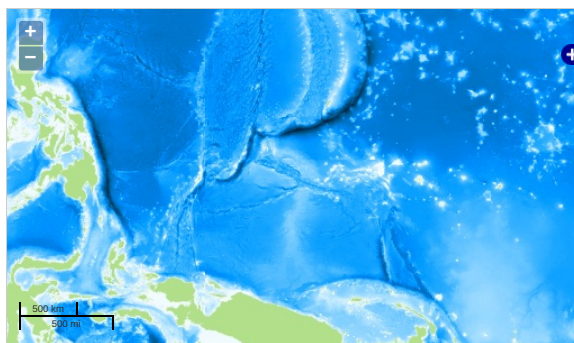
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### Observation Map



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

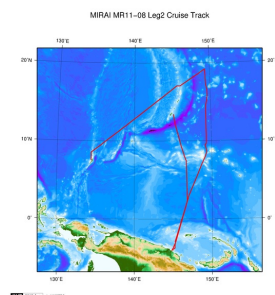
### Data List

☐ File names

☐ MR11-08\_leg2\_air.csv

☐ MR11-08\_leg2\_sea.csv

### Related Information



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