

## MIRAI MR15-05 Leg2 Partial Pressure of CO2 (pCO2)

Last Modified: 2018-08-25

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

Cruise ID: [MR15-05 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/MR15-05\\_leg2\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR15-05_leg2_all.pdf)

#### For Using Data

##### Principal Investigator

Akihiko Murata (JAMSTEC)

JAMSTEC / BPPT joint cruise in the Indonesian waters.

##### 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

- )



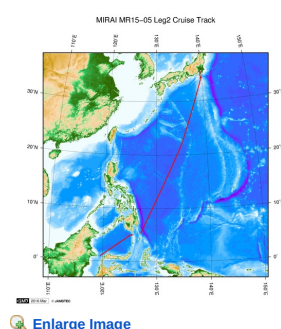
### Data Citation

Refer [WHP I10 Revisit in 2015 Data Book](#) (doi: 10.17596/0000002) .

### Overview

For details about observation, please refer to the Data book "[WHP I10 Revisit in 2015 Data Book](#)" (doi: 10.17596/0000002) and Readme document attached with data file.

### Related Information



[Enlarge Image](#)

#### MR15-05 Leg2

Ship Name: MIRAI

Period: 2016-01-13 - 2016-01-24

Chief Scientist: Akihiko Murata (JAMSTEC)

Proposal ▶ Research cruise on ocean decadal variability -- Indian Ocean GO-SHIP (Global Ocean Ship-based Hydrographic Investigation Program)

Title: Ship-based Hydrographic Investigation Program

### Update History

2018-08-25	An observation data was registerd.
2018-05-31	An observation data was registerd.
2018-03-23	An observation data was registerd.
2018-02-22	An observation data was registerd.

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[MIRAI](#)  
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#### Information of the Submersibles

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[SHINKAI 6500](#)  
[DEEP TOW](#)  
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[URASHIMA](#)  
[YOKOSUKA DEEP TOW](#)  
[6K Camera DEEP TOW](#)  
[6K Sonar DEEP TOW](#)  
[KM-ROV](#)  
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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	xCO <sub>2</sub> in dry air (ppmv)	

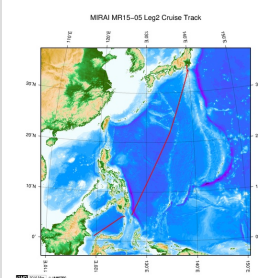
#### Sea-xCO<sub>2</sub>

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	xCO <sub>2</sub> in equilibrator (ppmv)	
11	pCO <sub>2</sub> in equilibrator (µatm)	
12	pCO <sub>2</sub> at SST (µatm)	
13	xCO <sub>2</sub> in dry air (ppmv)	

### Related Information



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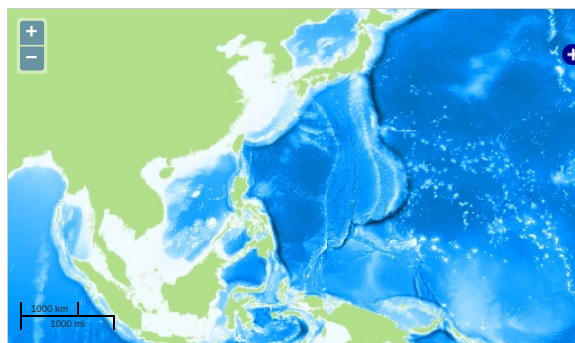
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### Observation Map



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

Imagery reproduced from ...

### Data List

☐ File names

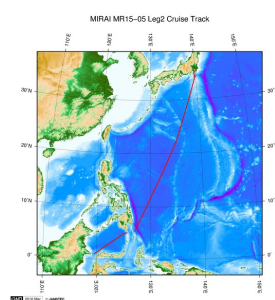
☐ MR15-05\_air.csv

☐ MR15-05\_sea.csv

☐ Readme\_pCO2\_MR15-05.pdf

☐ Readme\_pCO2\_MR15-05\_Supplement\_corrected01.pdf

### Related Information



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