

MIRAI MR15-05 Leg1 Partial Pressure of CO2 (pCO2)

Last Modified: 2018-08-25

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

Cruise ID: [MR15-05 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/MR15-05_leg1_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

-)



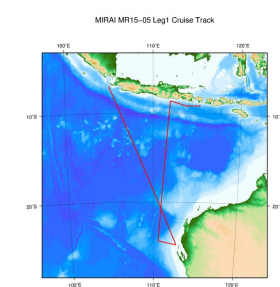
Data Citation

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 Leg1

Ship Name: MIRAI

Period: 2015-12-23 - 2016-01-11

Chief Scientist: Katsuro Katsumata (JAMSTEC)

Project Name: [POST-WOCE Hydrography]

Proposal ▶ Research cruise on ocean decadal variability -- Indian Ocean GO-SHIP (Global Ocean

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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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 | xCO2 in dry air (ppmv) | |

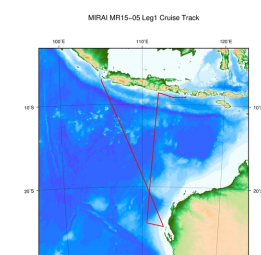
Sea-xCO₂

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

The "missing value" is defined as -999.

| Column NO. | Column Heading | Comments |
|------------|-------------------------------|------------------------------|
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| 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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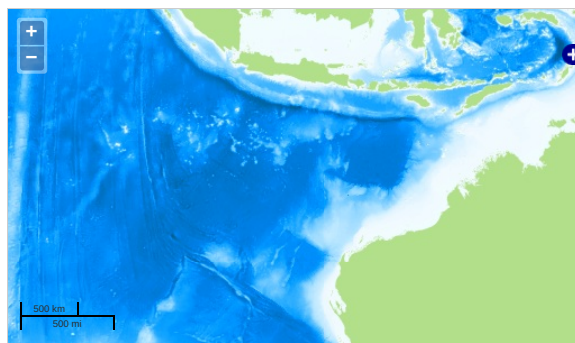
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Observation Map



Imagery reproduced from ...

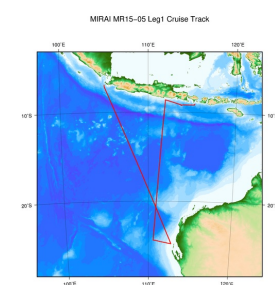
... Observation Line ... Navigation ... Observation, Dive Point, Hole

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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