

MIRAI MR16-09 Leg1 Partial Pressure of CO2 (pCO2)

Last Modified: 2019-07-31

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

Cruise ID: [MR16-09 Leg1](#)

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

Data Policy: [JAMSTEC](#)

Observation Items: CO2, 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/MR16-09_leg1-4_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

-)



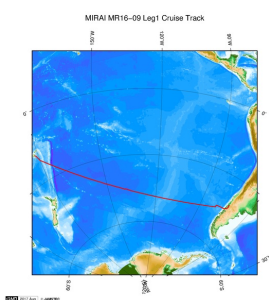
Data Citation

Refer [WHP P17E Revisit in 2017 Data Book](#) (doi: 10.17596/00000003) .

Overview

For details about observation, please refer to the Data book "[WHP P17E Revisit in 2017 Data Book](#)" (doi: 10.17596/00000003) and Readme document attached with data file.

Related Information



 [Enlarge Image](#)

MR16-09 Leg1

Ship Name: MIRAI

Period: 2016-12-26 - 2017-01-17

Chief Scientist: Akihiko Murata (JAMSTEC)

Proposal ▶ Ship-borne measurements of aerosols in the marine atmosphere: Investigation of potential influence of marine aerosol particles on the climate;

Update History

| | |
|------------|-------------------------------------|
| 2019-07-31 | An observation data was registered. |
| 2019-01-31 | An observation data was registered. |

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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 | xCO ₂ in dry air (ppmv) | |

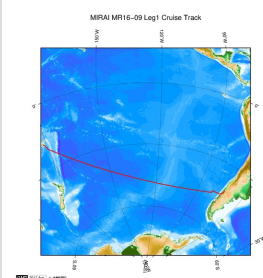
Sea-xCO₂

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

The "missing value" is defined as -999.

| Column NO. | Column Heading | Comments |
|------------|---|------------------------------|
| 1 | Date (UTC) | Year, Month, Day |
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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 | xCO ₂ in equilibrator (ppmv) | |
| 11 | pCO ₂ in equilibrator (µatm) | |
| 12 | pCO ₂ at SST (µatm) | |
| 13 | xCO ₂ in dry air (ppmv) | |

Related Information



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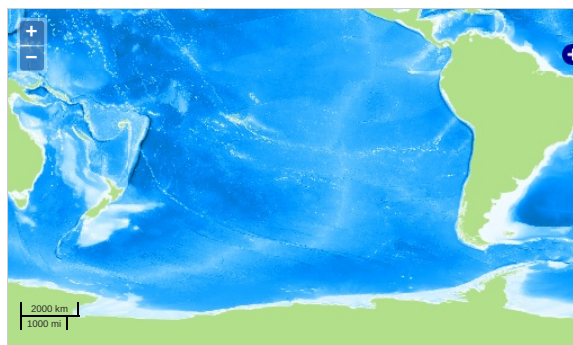
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Observation Map



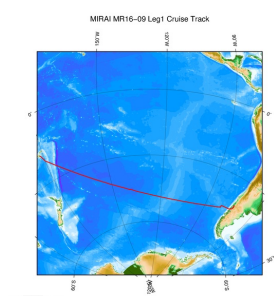
... Observation Line ... Navigation ... Observation, Dive Point, Hole

Data List

File names

- ☐ MR16-09leg1_air.csv
- ☐ MR16-09leg1_sea.csv
- ☐ Readme_pCO2_MR16-09.pdf
- ☐ Readme_pCO2_MR16-09_Supplement.pdf

Related Information



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