

MIRAI MR12-E03 Concentration of carbon dioxide and methane in the atmosphere and surface seawater

Last Modified: 2018-01-24

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

Cruise ID: [MR12-E03](#)

Concentration of carbon dioxide and methane in the atmosphere and surface seawater : Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

Data Information

Seawater drawn continuously at ca. 4.5m depth was introduced into a shower-type equilibrator. The seawater-equilibrated air was introduced into a Cavity Ring-Down Spectroscopy (CRDS). Air sample drawn from the bow of the ship was dried in the same manner and was introduced into the CRDS.

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR12-E03_all.pdf

For Using Data

Principal Investigator

Daisuke Sasano (Meteorological Research Institute, Oceanography and Geochemistry Research Department)

Use Constraints

It is recommended to contact the above investigator before use for publication.

Data Citation

It is recommended to contact the above investigator before use for publication.

Instrument

Instrument:

pCO2 and pCH4 measurement system

Instrument Information:

Instrument: pCO2 and pCH4 measuring system; Nippon ANS Ltd.

Method: Cavity Ring-Down

Spectroscopy (CRDS); Picarro,

G2301/Equilibrator: showerhead-type

Standard scale: WMO scale



Sample

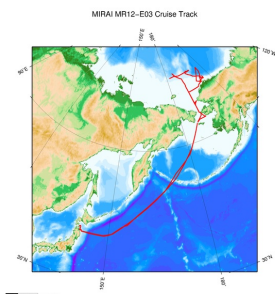
Sea, air

Data Format

See the header of the data files for more details.

Woce quality flags are assigned for QF columns.

Related Information



[Enlarge Image](#)

MR12-E03

Ship Name: MIRAI

Period: 2012-09-03 - 2012-10-17

Chief Scientist: Takashi Kikuchi (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Ecosystem studies on the Arctic Ocean declining sea ice

Title:

Update History

2018-01-24	An observation data was registerd.
2015-04-30	An observation data was registerd.

Update History
Feeds

SHINSEI MARU
HAKUHO MARU

YOKOSUKA DEEP TOW
6K Camera DEEP TOW
6K Sonar DEEP TOW
KM-ROV
POWER GRAB SAMPLER
(SHELL)
POWER GRAB SAMPLER
(CLOW)
BMS

Copyright 2011 Japan Agency for Marine-Earth Science and
Technology



JAMSTEC

国立研究開発法人
海洋研究開発機構
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

MIRAI MR12-E03 Concentration of carbon dioxide and methane in the atmosphere and surface seawater

Last Modified: 2018-01-24

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

Cruise ID: [MR12-E03](#)

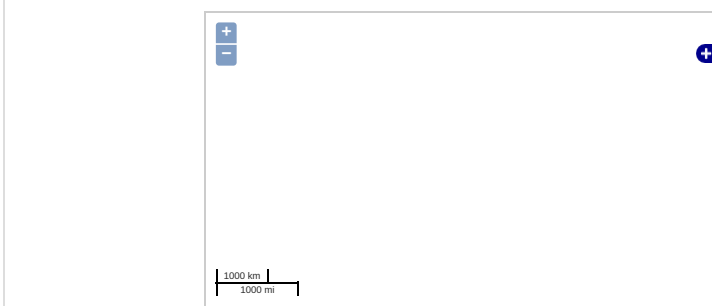
Concentration of carbon dioxide and methane in the atmosphere and surface seawater Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

Observation Map



Imagery reproduced from ...

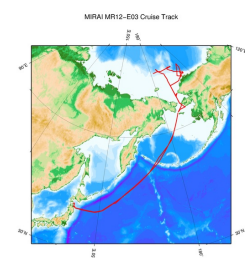
Data List

[Add to Basket](#)

File names

☐ MR12-E03_xCO2_xCH4.csv

Related Information



[Enlarge Image](#)

MR12-E03

Ship Name: MIRAI

Period: 2012-09-03 - 2012-10-17

Chief Scientist: Takashi Kikuchi (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Ecosystem studies on the Arctic Ocean declining sea ice

Title:

Update History

2018-01-24	An observation data was registered.
2015-04-30	An observation data was registered.

JAMSTEC

[Site Policy](#)
[Privacy Policy](#)
[Application for Data and Samples](#)
[Data Policy](#)

[What's New](#)
[Update History](#)
[Feeds](#)

Lists

[Publication List](#)
[Amount of Public Info.](#)

[Data](#)
[Map Search](#)
[Data Tree](#)
[Detailed Search](#)

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](#)

Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

