

MIRAI MR10-05 Leg2 18O Data

Last Modified: 2013-02-25

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Cruise ID: [MR10-05 Leg2](#)

18O Data: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

Data Information

Oxygen isotope ratio ($\delta^{18}\text{O}$) by mass spectrometry

1. Seawater samples were collected in 12L Niskin bottles mounted on the CTD-rosette system and then transferred into 20 ml glass vials for $\delta^{18}\text{O}$ analysis.
2. Samples were stored in refrigerator (-5°C).
3. Samples were analyzed by Dr. Naoyuki Kurita at JAMSTEC.
4. Data were reported as a permil deviation of oxygen isotope ratio of the sample from that of international standard seawater (VSMOW):

$$\delta^{18}\text{O} = \left\{ \frac{(\text{H}218\text{O}/\text{H}216\text{O})_{\text{sample}} - (\text{H}218\text{O}/\text{H}216\text{O})_{\text{VSMOW}}}{(\text{H}218\text{O}/\text{H}216\text{O})_{\text{VSMOW}}} \times 1000 \right\} [\text{‰}]$$

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR10-05_leg1-2_all.pdf

For Using Data

Principal Investigator

Shigeto Nishino (JAMSTEC)

Use Constraints

See [Terms and Conditions](#) about constrain of use.

Data Citation

Itoh, M. (2010), R/V Mirai Cruise Report MR10-05, www.godac.jamstec.go.jp/cruisedata/mirai/e/index.html, JAMSTEC, Yokosuka, Japan.

Upon consultation in advance with the chief of investigation and the person(s) in charge of research issues who gathered that data, we request that the text of the results material contain a statement to the effect that it was obtained during the R/V Mirai cruise of MR10-05, the Chief Scientist, Motoyo Itoh (JAMSTEC), and the following Principal Investigators (PI) for gathering the data.

Chief Scientist

Motoyo Itoh

Japan Agency for Marine - Earth Science and Technology (JAMSTEC)

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E-mail: motoyo@jamstec.go.jp

PI for data of 18O

Shigeto Nishino (JAMSTEC)

Instrument

Instrument:

Finnigan MAT-252 mass spectrometer

(Thermo Electron Corporation)

Instrument Information:

http://www.thermo.com.cn/Resources/200802/File_28763.pdf



Data Format

File name: MR10-05_18O_Data20121119.xls

Station : Station No.

Niskin No. : No. of Niskin bottle from which the water sample was collected

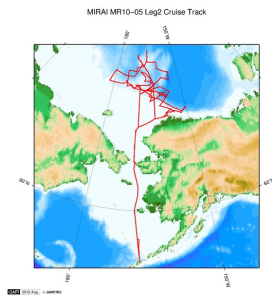
Label : Label attached to the glass vials

18O : measured values

Analyzed Date : Analyzed dates

Memo : Remarks

Related Information



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MR10-05 Leg2

Ship Name: MIRAI

Period: 2010-09-02 - 2010-10-16

Chief Scientist: Motoyo Ito (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Arctic Climate Oceanography

Title:

Update History

2013-02-25	An observation data was registered.
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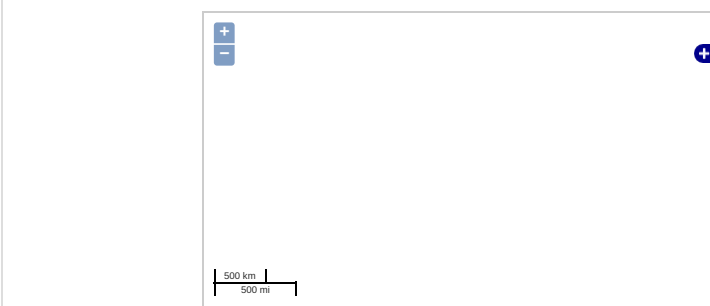
MIRAI MR10-05 Leg2 180 Data

Last Modified: 2013-02-25

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Cruise ID: [MR10-05 Leg2](#)
180 Data: Processed (PI)
Data Policy: [JAMSTEC](#)
Observation Items:
Science Keywords:

Observation Map



Imagery reproduced from ...

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

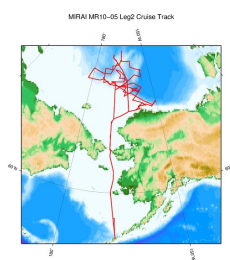
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File names

MR10-05_180_Data20121119.xls

Related Information



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MR10-05 Leg2

Ship Name: MIRAI
Period: 2010-09-02 - 2010-10-16
Chief Scientist: Motoyo Ito (JAMSTEC)
Project Name: [Arctic Ocean Climate System Research]
Proposal ▶ Arctic Climate Oceanography
Title:

Update History

2013-02-25 An observation data was registerd.

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