

MIRAI MR17-05C Black carbon number concentration

Last Modified: 2019-09-17

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

Cruise ID: [MR17-05C](#)

Black carbon number concentration: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

Data Information

Black carbon measurements were continuously conducted during the cruise using a laser-induced-incandescence BC analyzer (SP2, Droplet Measurement Technologies) located in the Research Information Center, to which ambient air was drawn through ~3-m-long conductive silicon tube. Sampling air was dried by a Nafion-type aerosol dryer placed in front of SP2 to avoid the condensation of water inside the tubing and instrument and to sample "completely dried" particles.

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR17-05C_all.pdf

For Using Data

Principal Investigator

Fumikazu Taketani (JAMSTEC)

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.

Please mention that this cruise was conducted under the Arctic Challenge for Sustainability (ArCS) Project, which was funded by the Ministry of Education, Culture, Sports, Science and Technology of Japan (MEXT)

Instrument

Instrument:

Laser induced incandescence BC analyzer (SP2, Droplet Measurement Technologies)

Instrument Information:

Realtime measurement of single BC-containing particle using a laser induced incandescence technique.

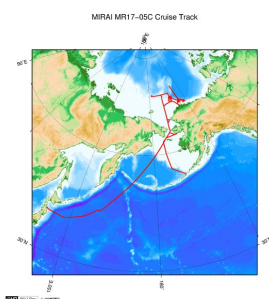
The numbers of detected BC-containing particle in a minute interval were converted into the number concentration of BC-containing particles using the observed sampling flow rate. The minutely concentrations were averaged into daily concentrations.



Data Format

Text format. See the header of the data files for more details.

Related Information



[Enlarge Image](#)

MR17-05C

Ship Name: MIRAI

Period: 2017-08-24 - 2017-10-01

Chief Scientist: Shigeto Nishino (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Arctic Challenge for Sustainability (ArCS)

Title:

Update History	
2019-09-17	An observation data was registerd.

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Application for Data and Samples

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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

Go to a Dive Information

Dive ID:

Go

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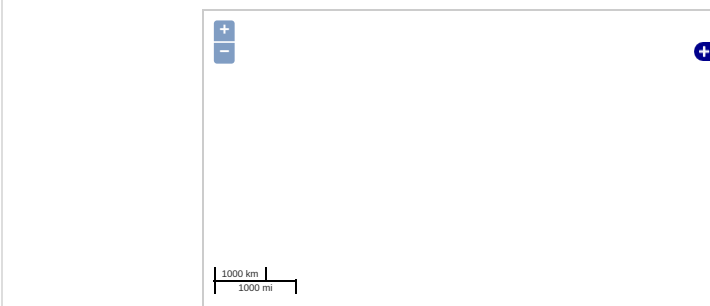
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Observation Map



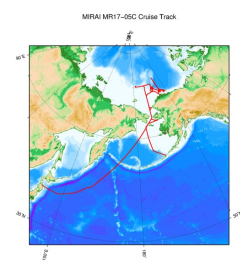
Imagery reproduced from ...

Data List

File names

☐ MR1705C_BC.csv

Related Information



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