

MIRAI MR16-06 Black carbon number concentration

Last Modified: 2018-11-30

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Cruise ID: [MR16-06](#)

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/MR16-06_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:

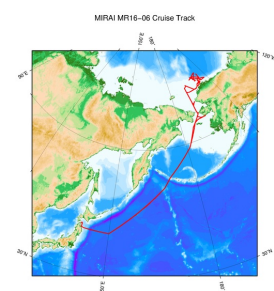
Realtime measurement of single BC-containing particle using a laser induced incandescence technique. The numbers of detected BC-containing particle in a minute interval were converted into the number concentration of BC-containing particles using the observed sampling flow rate. The minutely concentrations were averaged into half-a-daily concentrations.



Data Format

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

Related Information



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MR16-06

Ship Name: MIRAI

Period: 2016-08-22 - 2016-10-05

Chief Scientist: Shigeto Nishino (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Predictability study on weather and sea-ice forecasts linked with user engagement

Title:

Update History

2018-11-30	An observation data was registerd.
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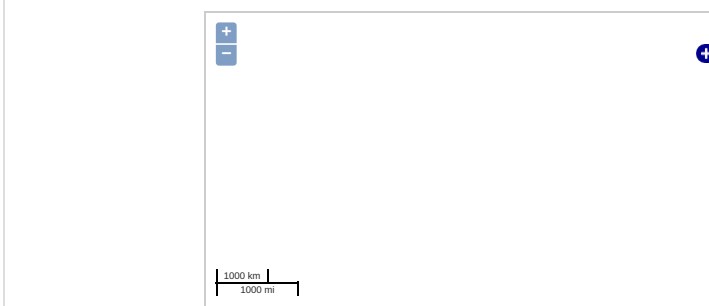
Black carbon number concentration: Processed (PI)

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Observation Items:

Science Keywords:

Observation Map



Imagery reproduced from ...

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

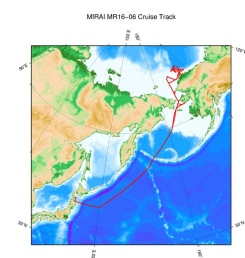
Data List

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File names

MR1606_BC.csv

Related Information



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