

MIRAI MR13-05 Black carbon number concentration

Last Modified: 2018-01-23

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

Cruise ID: [MR13-05](#)

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 diffusion dryer placed in front of SP2 to avoid the condensation of water inside the tubing and instrument.

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR13-05_all.pdf

For Using Data

Principal Investigator

Takuma Miyakawa (Department of Environmental Geochemical Cycle Research)

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:

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

Instrument Information:

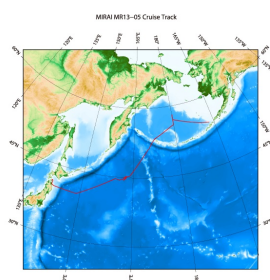
Realtime measurement of single BC-containing particle using a laser induced incandescence technique. The numbers of detected BC-containing particle in a minute interval were converted into the number concentration of BC-containing particles using the observed sampling flow rate. The minutely concentrations 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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MR13-05

Ship Name: MIRAI

Period: 2013-08-12 - 2013-08-26

Chief Scientist: Saburo Sakai (JAMSTEC)

Proposal ▶ Study of distribution and optical characteristics of ice/water clouds and marine aerosols

Title:

Update History

2018-01-23	An observation data was registered.
2015-10-31	An observation data was registered.

Application for Data and
Samples
Data Policy

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YOKOSUKA
MIRAI
KAIREI
CHIKYU
KAIMEI
SHINSEI MARU
HAKUHO MARU

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

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Dive ID:

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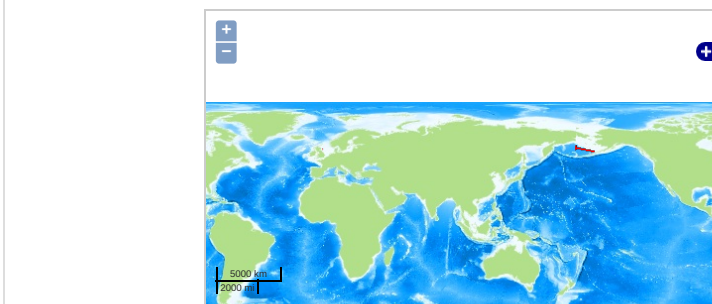
Black carbon number concentration: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

Observation Map



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

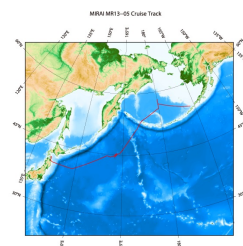
Data List

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File names

MR13-05_BCnum_prelim_12h_mod.csv

Related Information



[Enlarge Image](#)

MR13-05

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