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-incadescence 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 condesation 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

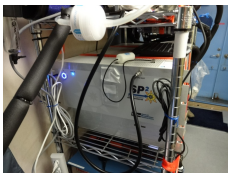
It is recommended to contact the above investigator before use for publication.

Data Citation

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

Instrument

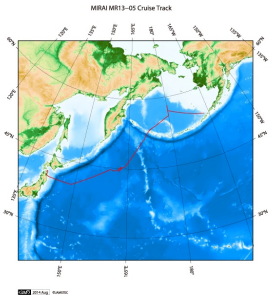
Instrument:
Laser induced incadescence BC analyzer (SP2, Droplet Measurement Technologies)
Instrument Information:
Realtime measurement of single BC-containing particle using a laser induced incandescence technique. The numbers of detected BC-containing particle in a minute interval were converted into 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



Enlarge Image

MR13-05
Ship Name: MIRAI
Period: 2013-08-12 - 2013-08-26
Chief Scientist: Saburo Sakai (JAMSTEC)
Proposal Title: Study of distribution and optical characteristics of ice/water clouds and marine aerosols

Update History

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

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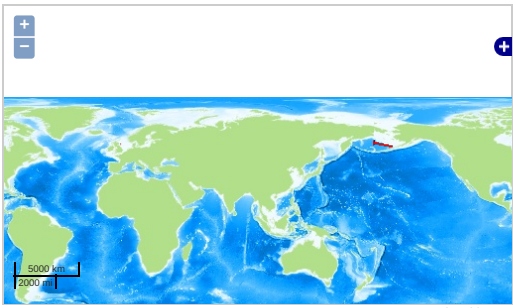
Observation Map



Imagery reproduced from ...

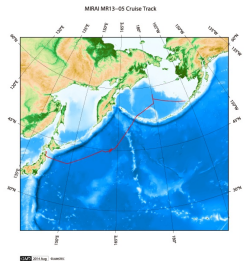
... Observation Line ... Navigation ... Observation, Dive Point, Hole

Data List

Add to Basket

	File names
☐	MR13-05_BCnum_prelim_12h_mod.csv

Related Information



Enlarge Image

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