MIRAI MR12-E03 Absorbance of Total Particulate Materials and Detritus

Last Modified: 2015-09-30

ReadMe | Observation Data

Cruise ID: MR12-E03
Absorbance of Total Particulate Materials and Detritus : Processed (PI)
Data Policy: JAMSTEC
Observation Items:
Science Keywords:

Data Information

Spectral absorbance of particles inside the visible range (350 - 750 nm).
Absorbance of suspended particles, including phytoplankton cels and detritus, collected on a glass fiber filter were measured using spectrophotometer.
Phytoplankton pigment on filter was extracted using methanol between 24 and 48 hours, and the absorbance of detritus was measured.

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR12-E03_all.pdf

For Using Data

Principal Investigator

Toru Hirawake (Faculty of Fisheries Sciences, Hokkaido University)

Use Constraints

See Terms and Conditions about constrain of use.

Data Citation

Kikuchi, T., 2012, R/V Mirai Cruise Report MR12-E03, edited by T. Kikuchi and S. Nishino, 190pp., 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 MR12-E03, the Chief Scientist, Takashi Kikuchi (JAMSTEC), and the following Principal Investigators (PIs) for gathering the data.

Chief Scientist
Takashi Kikuchi
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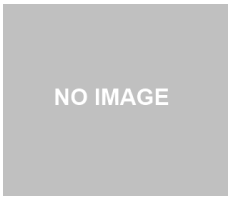
PI
Toru Hirawake (Hokkaido University)
Amane Fujiwara (JAMSTEC)

And also the data were obtained under the GRENE (Green Network of Excellence) Arctic Climate Change Research Project of the Ministry of Education, Culture, Sports, Science and Technology in Japan (MEXT).

Instrument

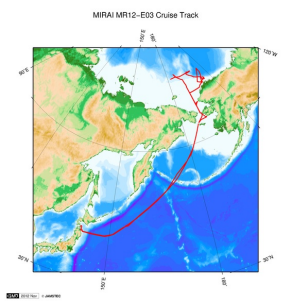
Instrument:
Spectrophotometer UV2400
(Shimadzu)
Instrument Information:



Data Format

The data sampled at each station and each depth is formated to a ASCII file. Measured wavelengths (nm) and absorbance were recorded to a file. The information of filtration and measurement is written in 'fieldnote_particle.xls'.

Related Information



Enlarge Image

MR12-E03
Ship Name: MIRAI
Period: 2012-09-03 - 2012-10-17
Chief Scientist: Takashi Kikuchi (JAMSTEC)
Project Name: [Arctic Ocean Climate System Reaserch]
Proposal ▸ Ecosystem studies on the Arctic Ocean declining sea ice
Title:

Update History

2015-09-30	An observation data was registerd.

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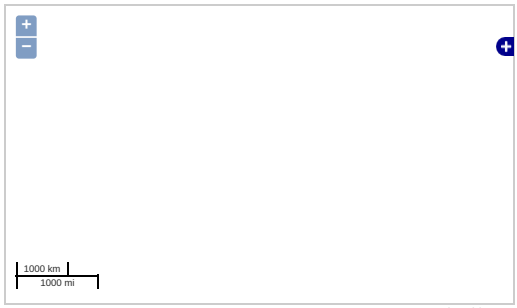
Observation Map



Imagery reproduced from ...

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

Data List

Add to Basket

File names
001_000D.ASC
001_000P.ASC
001_012D.ASC
001_012P.ASC
004_000D.ASC
004_000P.ASC
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010_012P.ASC
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014_000P.ASC
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020_000P.ASC
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File names
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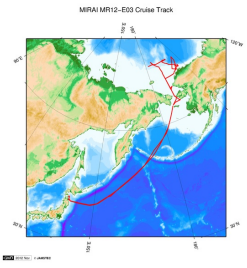
fieldnote_particle.xlsx

Related Information



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