

MIRAI MR12-E03 Dissolved and total soluble iron concentrations, Humic-like fluorescence intensity

Last Modified: 2018-01-23

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

Cruise ID: [MR12-E03](#)

Dissolved and total soluble iron concentrations, Humic-like fluorescence intensity : Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

Data Information

- (1) Dissolved iron concentration (0.22 μ m filtered fraction) and total soluble iron concentrations (unfiltered)
(2) Humic-like fluorescence intensity (0.22 μ m filtered seawater): 320nm excitation wavelength and 420nm emission wavelength with a 10-nm bandwidth.
Fluorescence intensity is expressed in terms of quinine sulfate units (1 QSU=1 ppb quinine sulfate in 0.05 M H₂SO₄)

Cruise Report

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

For Using Data

Principal Investigator

Kenshi Kuma (Faculty of Fisheries Sciences, Hokkaido Univ.)

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 for the data

Kenshi Kuma (Faculty of Fisheries Sciences, Hokkaido Univ.)

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:

(1) Automated Fe analyzer (Kimoto

Electric Co. Ltd.), (2) Hitachi F-2000

fluorescence spectrophotometer

Instrument Information:

(1) A combination of chelating resin

concentration and luminol-hydrogen

peroxide chemiluminescence detection

in a closed flowthrough system



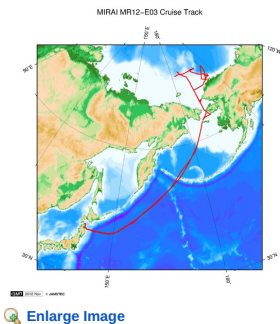
Sample

Seawater sample

Data Format

MR12-E03 Fe and Humic Data.xlsx (Excel file)

Related Information



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

2018-01-23	An observation data was registerd.
2015-03-31	An observation data was registerd.

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 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

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Cruise ID:

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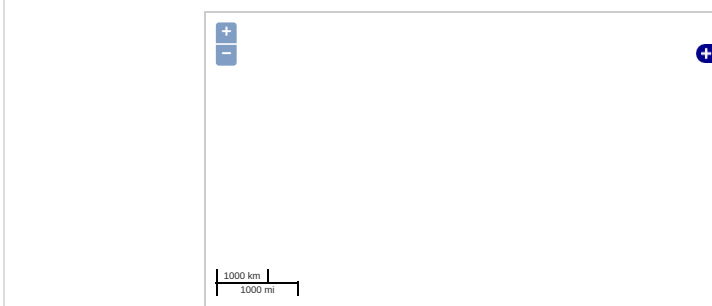
Dissolved and total soluble iron concentrations, Humic-like fluorescence intensity Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

Observation Map



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

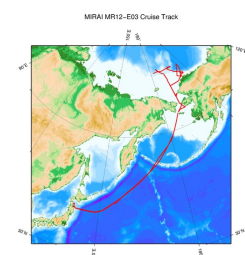
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File names

☐ MR12-E03_Fe_and_Humic_Data.xlsx

Related Information



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MR12-E03

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Period: 2012-09-03 - 2012-10-17

Chief Scientist: Takashi Kikuchi (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Ecosystem studies on the Arctic Ocean declining sea ice

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