

MIRAI MR14-05 Plankton photographs

Last Modified: 2016-10-01

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Cruise ID: [MR14-05](#)

Plankton photographs: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

Data Information

Intake water or water from Niskin bottles or bucket, which was filtered through a funnel with 200 µm mesh, was collected in a 1L plastic bottle. The water in the bottle was condensed to be 10 mL through a filter with a pore size of 20 µm. The condensed water was pumped to a cell of the instrument (FlowCAM) and planktons with sizes of 20 - 200 µm in the condensed water flowing in the cell was taken by a camera with a microscope (x 400).

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR14-05_all.pdf

For Using Data

Principal Investigator

See Data Citation

Use Constraints

See [Terms and Conditions](#) about constrain of use.

Data Citation

Inoue, J., 2014, R/V Mirai Cruise Report MR14-05, edited by J. Inoue, 273pp., 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 MR14-05, the Chief Scientist, Jun Inoue (National Institute of Polar Research), and the following Principal Investigators (PIs) for gathering the data.

Chief Scientist

Jun Inoue

National Institute of Polar Research (NIPR)

10-3, Midori-cho, Tachikawa-shi, Tokyo 190-8518, Japan

Tel: +81-42-512-0681

E-mail: inoue.jun @ nipr.ac.jp

PI for plankton photographs

Shigeto Nishino

Japan Agency for Marine - Earth Science and Technology (JAMSTEC)

2-15 Natsushima, Yokosuka, Kanagawa 237-0061, Japan

Tel: +81-46-867-9487

E-mail: nishinos @ jamstec.go.jp

Instrument

Instrument:

FlowCAM (Fluid Image Technologies, Inc.)

Instrument Information:

The Flow Cytometer And Microscope (FlowCAM) is one of automatic sampling devices. It combines the capabilities of flow cytometry, microscopy and image analysis (Sieracki et al., 1998). The FlowCAM counts and photographs particles moving in a fluid flow.

Sieracki, C. K., Sieracki, M. E. and Yentsch, C. S. (1998) An imaging-in-flow system for automated analysis of marine microplankton. Mar. Ecol. Prog. Ser., 168, 285–296.



Instrument:

FlowCAM

Instrument Information:

Sample image

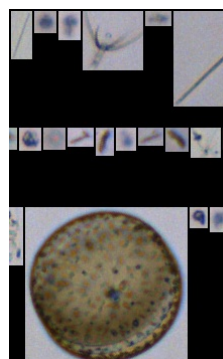


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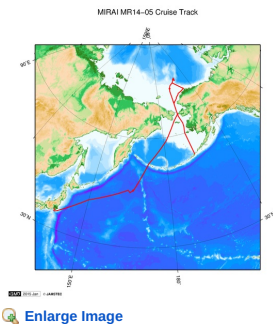
Data Format

55 files

Details are described in the cruise report.

* The images are not posted on this site because the file sizes are too large.
Please refer to the Application for Data and Samples if you wish to use the data.

Related Information



MR14-05

Ship Name: MIRAI

Period: 2014-08-31 - 2014-10-10

Chief Scientist: Jun Inoue (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Predictability study of Arctic cyclones

Title:

Update History

2016-10-01	An observation data was registerd.
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SHINSEI MARU

HAKUHO MARU

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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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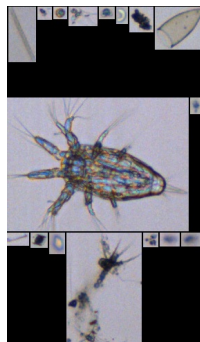


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Instrument Information:

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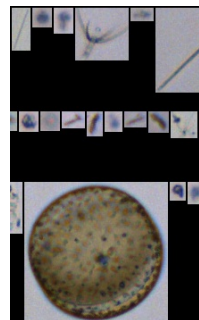


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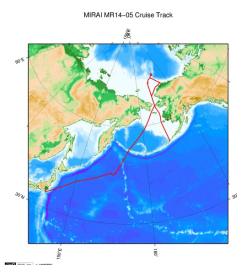
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Ship Name: MIRAI

Period: 2014-08-31 - 2014-10-10

Chief Scientist: Jun Inoue (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Predictability study of Arctic cyclones

Title:

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