

MIRAI MR17-05C PARTICLE SIZE DISTRIBUTION

Last Modified: 2019-09-17

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

Cruise ID: [MR17-05C](#)

PARTICLE SIZE DISTRIBUTION : Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

Data Information

The particle size distribution (PSD) was measured with a Multisizer III analyzer (Beckman-Coulter). Measurements were made with two aperture tubes of different diameters (30 and 200 micrometers) and the results merged to create a single PSD. The range of particle sizes covered with the merged measurements was from 0.7 to 120 micrometers (equivalent spherical diameters). For each sample and for each corresponding particle-free reference that serves as a baseline, multiple replicate measurements were obtained and summed. Each data file contains the lower, center, and upper limits of each size bin, and the concentration of particles per unit volume measured within each size bin (units of particle number per cm³).

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR17-05C_all.pdf

For Using Data

Principal Investigator

Rick A. Reynolds (Scripps Institute of Oceanography)

Use Constraints

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

Data Citation

Nishino, S., 2017, R/V Mirai Cruise Report MR17-05C, 209pp., 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 MR17-05C, the Chief Scientist, Shigeto Nishino (JAMSTEC), and the following Principal Investigators (PIs) for gathering the data.

Chief Scientist

Shigeto Nishino

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PI

Toru Hirawake (Hokkaido University)

Please also mention that this cruise was supported by the Arctic Challenge for Sustainability (ArCS) Project, which was funded by the Ministry of Education, Culture, Sports, Science and Technology of Japan (MEXT), and the Global Change Observation Mission-Climate (GCOM-C) mission of Japan Aerospace Exploration Agency (JAXA).

Instrument

Instrument:

Multisizer III analyzer (Beckman-Coulter)

Instrument Information:

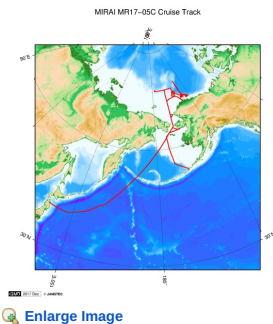
The Multisizer III uses the Coulter Principle to measure particle volume, number, surface area and mass with different size range.



Data Format

The filename contains a 2 digit code consisting of cc**, where ** is an internal SIO water sample identification number. The files entitled "SampleLog_CoulterCounter_MR17-05C.txt" and "SIO_StationLog_MR17-05C.txt" contain additional information about each sample and station.

Related Information



MR17-05C

Ship Name: MIRAI
Period: 2017-08-24 - 2017-10-01
Chief Scientist: Shigeto Nishino (JAMSTEC)
Project Name: [Arctic Ocean Climate System Reaserch]
Proposal ▶ Arctic Challenge for Sustainability (ArCS)
Title:

Update History

2019-09-17	An observation data was registerd.
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Application for Data and Samples
Data Policy

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Amount of Public Info.

Data

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Detailed Search

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NATSUSHIMA
KAIYO
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

Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

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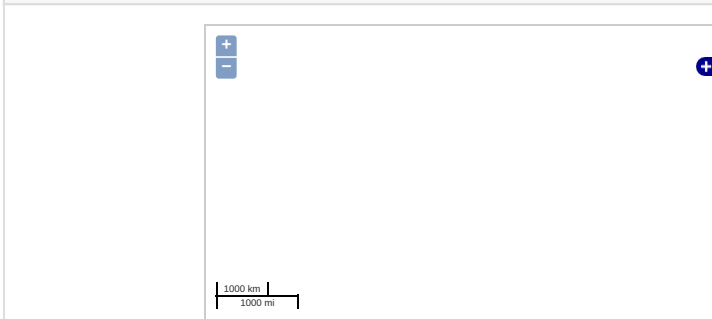
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Observation Map



Imagery reproduced from ...

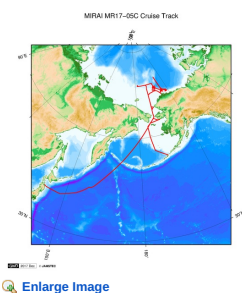
... Observation Line ... Navigation ... Observation, Dive Point, Hole

Data List

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- ☐ File names
- ☐ PSD_CoulterCounter.zip
- ☐ SIO_StationLog_MR17-05C.txt
- ☐ SampleLog_CoulterCounter_MR17-05C.txt

Related Information



[Enlarge Image](#)

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Period: 2017-08-24 - 2017-10-01
Chief Scientist: Shigeto Nishino (JAMSTEC)
Project Name: [Arctic Ocean Climate System Research]
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