

## MIRAI MR17-05C TOTAL SUSPENDED PARTICULATE MATTER (SPM)

Last Modified: 2019-09-17

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

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

TOTAL SUSPENDED PARTICULATE MATTER (SPM): Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

### Data Information

The concentration of suspended particulate matter, SPM, defined as dry mass of particles per unit volume of water, was estimated using the standard gravimetric technique. We used pre-rinsed, pre-combusted, pre-weighed GF/F filters (25 mm in diameter) for filtration of measured volumes of seawater. Samples were rinsed three times with DI, followed by a separate rinse of filter edges after removal of filter cup, to remove sea salt. The dry mass of SPM collected on filters was measured with a Mettler-Toledo MT5 microbalance (resolution 0.001 mg). 1-3 replicate filters were measured for each sample. The SPM data are included in the data file with POC and PON.

### Cruise Report

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/MR17-05C\\_all.pdf](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

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

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

Tel: +81-46-867-9487, Fax: +81-46-867-9437

E-mail: [nishinos@jamstec.go.jp](mailto:nishinos@jamstec.go.jp)

#### 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:

Mettler-Toledo MT5 microbalance

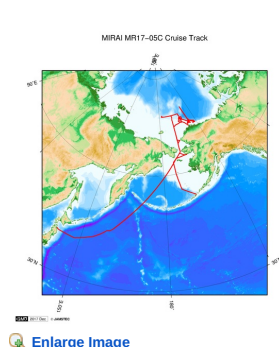
Instrument Information:



### Data Format

Station times and locations are given in the file "SIO\_StationLog\_MR17-05C.txt".

### 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 Research]

Proposal ▶ Arctic Challenge for Sustainability (ArCS)

Title:

Update History	
2019-09-17	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  
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POWER GRAB SAMPLER (CLOW)  
BMS

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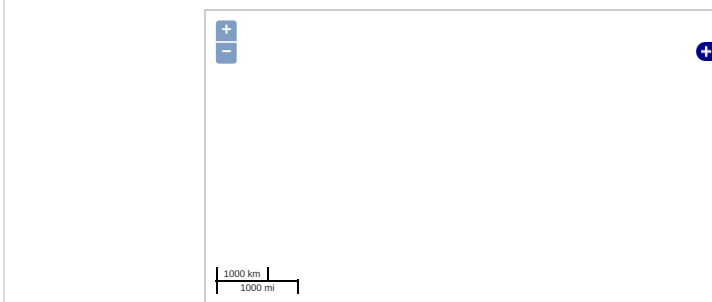
TOTAL SUSPENDED PARTICULATE MATTER (SPM): Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

### Observation Map



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

### Data List

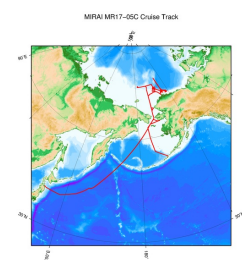
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☐ File names

☐ POC\_SPM\_MR17-05C.txt

☐ SIO\_StationLog\_MR17-05C.txt

### Related Information



[Enlarge Image](#)

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Ship Name: MIRAI

Period: 2017-08-24 - 2017-10-01

Chief Scientist: Shigeto Nishino (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

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