

## MIRAI MR12-E03 particulate backscattering coefficient

Last Modified: 2015-09-30

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

Cruise ID: [MR12-E03](#)

particulate backscattering coefficient: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

### Data Information

Vertical profiles of backward volume scattering function (beta), particulate back scattering coefficient (bbp) at 6 wavelengths (see "HydroScat6\_data\_spec.xlsx"), and fluorescence at 510 and 676 nm. Corrected beta, bbp and fluorescence were calculated by standard correction method (sigma correction) using Hydrosoft (HOBi Labs). Details are described in "http://www.hobilabs.com/cmsitems/attachments/3/HS6ManualRevJ-2010-8a.pdf".

### Cruise Report

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/MR12-E03\\_all.pdf](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

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

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

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

Tel: +81-46-867-9486, Fax: +81-46-867-9437

E-mail: takashik @ jamstec.go.jp

#### 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

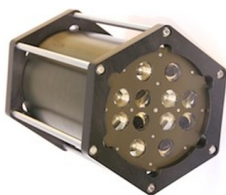
Instrument:

Backscattering Sensor & Fluorometer

(HOBi Labs)

Instrument Information:

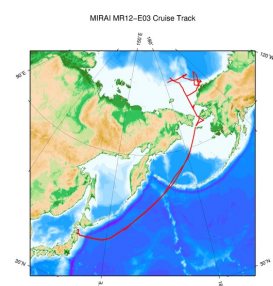
Measure vertical profiles of backscattering at 6 wavelengths and chlorophyll and CDOM fluorescence



### Data Format

The data sampled at each station are formatted to ASCII files. See 'HydroScat6\_fieldnote.xlsx' to refer the data information when obtained. Data specification is also shown in 'HydroScat6\_data\_spec.xlsx'.

### Related Information



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#### MR12-E03

Ship Name: MIRAI

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

Title:

Update History	
2015-09-30	An observation data was registerd.

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#### Data

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[SHINSEI MARU](#)  
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#### Information of the Submersibles

[KAIKO](#)  
[SHINKAI 2000](#)  
[SHINKAI 6500](#)  
[DEEP TOW](#)  
[HYPER-DOLPHIN](#)  
[URASHIMA](#)  
[YOKOSUKA DEEP TOW](#)  
[6K Camera DEEP TOW](#)  
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#### Go to a Cruise Information

Cruise ID:

#### Go to a Dive Information

Dive ID:

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**JAMSTEC** 国立研究開発法人  
海洋研究開発機構  
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

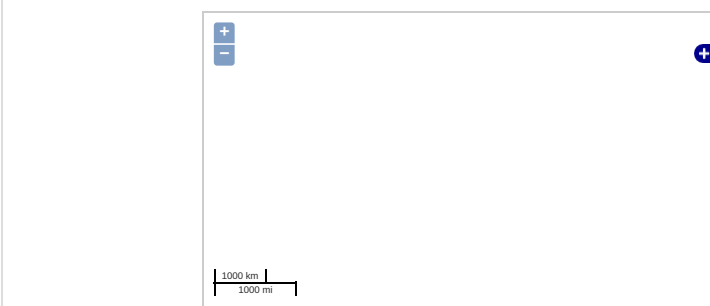
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Observation Items:  
Science Keywords:

### Observation Map



Imagery reproduced from ...

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

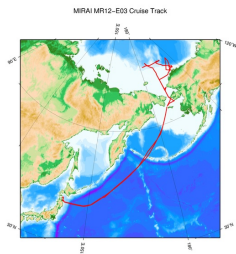
### Data List

[Add to Basket](#)

#### ☐ File names

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<input type="checkbox"/> HydroScat6_fieldnote.xls

### Related Information



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#### MR12-E03

Ship Name: MIRAI  
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  
Title:

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POWER GRAB SAMPLER (SHELL)  
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