

## MIRAI MR10-06 MAX-DOAS data

Last Modified: 2013-02-25

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

Cruise ID: [MR10-06](#)

MAX-DOAS data: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

### Data Information

MAX-DOAS (Multi-AXis Differential Optical Absorption Spectroscopy) is a technique measuring UV/Visible hyperspectra of scattered sunlight at several different elevation angles. The raw spectra are analyzed based on the DOAS method to derive the differential slant column density (DSCD) of the oxygen collision complex (O<sub>2</sub>-O<sub>2</sub> or O<sub>4</sub>) and NO<sub>2</sub>, using QDOAS software (<http://uv-vis.aeronomie.be/software/QDOAS/>).

### Cruise Report

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/MR10-06\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR10-06_all.pdf)

### For Using Data

#### Principal Investigator

Hisahiro TAKASHIMA (Research Institute for Global Change (RIGC)  
, Environmental Biogeochemical Cycle Research Program (EBCRP)  
, Atmospheric Composition Research Team)

#### Use Constraints

Since MAX-DOAS is a remote sensing technique, further improvement in data quality is anticipated. It is recommended to contact the above investigator before use for publication.

#### Data Citation

Since MAX-DOAS is a remote sensing technique, further improvement in data quality is anticipated. It is recommended to contact the above investigator before use for publication.

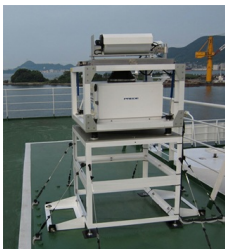
### Instrument

Instrument:

MAX-DOAS (Multi-AXis Differential Optical Absorption Spectroscopy)

Instrument Information:

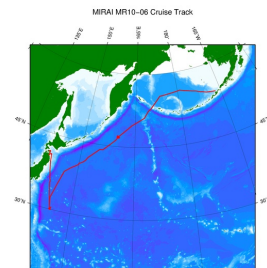
Daytime data only. The measured spectra were selected with a criterion for the elevation angle to be within  $\pm 0.2^\circ$  of the target elevation angle and averaged every 1 minute.



### Data Format

Text format. See the header of the data files for more details.

### Related Information



2013-02-25 14:00:00

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#### MR10-06

Ship Name: MIRAI

Period: 2010-10-18 - 2010-11-16

Chief Scientist: Makio Honda (JAMSTEC)

Project Name: [Station K2, Station S1, Station KEO, Station KNOT]

Proposal [►](#) Change in material cycles and ecosystem by the climate change and its feedback

Title:

### Update History

2013-02-25 An observation data was registered.

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HAKUHO MARU

SHINKAI 6500  
DEEP TOW  
HYPER-DOLPHIN  
URASHIMA  
YOKOSUKA DEEP TOW  
6K Camera DEEP TOW  
6K Sonar DEEP TOW  
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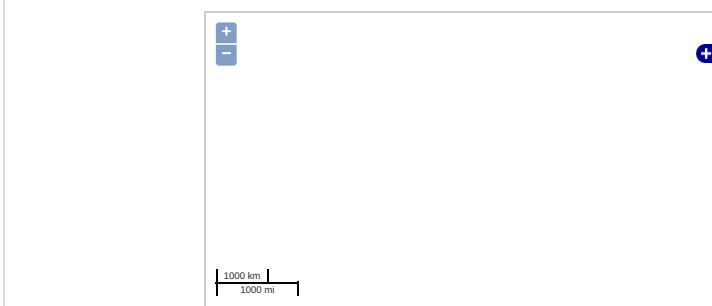
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Cruise ID: [MR10-06](#)  
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### Observation Map



Imagery reproduced from ...

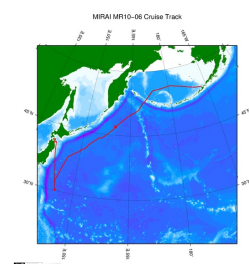
... Observation Line ... Navigation ... Observation, Dive Point, Hole

### Data List

#### File names

☐ max\_mr10-06\_dscd.dat

### Related Information



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#### MR10-06

Ship Name: MIRAI  
Period: 2010-10-18 - 2010-11-16  
Chief Scientist: Makio Honda (JAMSTEC)  
Project Name: [Station K2, Station S1, Station KEO, Station KNOT]  
Proposal: ▶ Change in material cycles and ecosystem by the climate change and its feedback  
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