

## MIRAI MR13-05 MAX-DOAS data

Last Modified: 2016-01-31

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Cruise ID: [MR13-05](#)

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/>). Vertical column densities (VCDs) are retrieved by using custom VCD conversion software (Y. Kanaya, test121218.exe).

### Cruise Report

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/MR13-05\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR13-05_all.pdf)

### For Using Data

#### Principal Investigator

Hisahiro TAKASHIMA (Department of Environmental Geochemical Cycle Research)

#### 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

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### Instrument

Instrument:

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

Instrument Information:

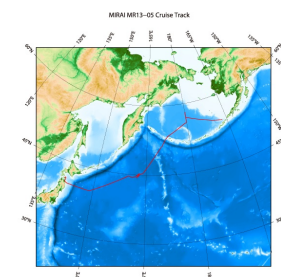
Daytime data only. The measured spectra were selected with a criterion for the elevation angle to be within  $\pm 0.2^\circ$  of the target elevation angle and averaged every 1 minute.



### Data Format

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

### Related Information



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#### MR13-05

Ship Name: MIRAI

Period: 2013-08-12 - 2013-08-26

Chief Scientist: Saburo Sakai (JAMSTEC)

Proposal ▶ Study of distribution and optical characteristics of ice/water clouds and marine aerosols

Title:

### Update History

2016-01-31	An observation data was registerd.
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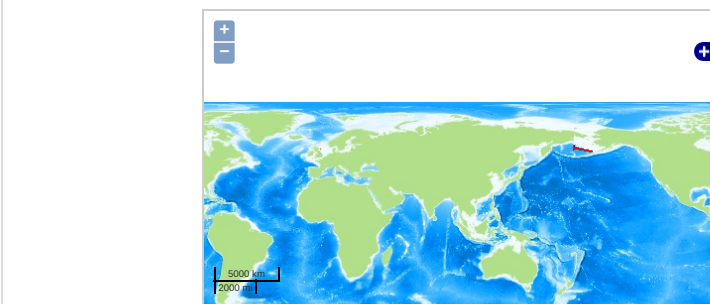
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### Observation Map



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

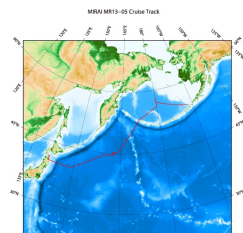
### Data List

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#### File names

☐ max\_mr1305\_aer476\_c.dat  
☐ max\_mr1305\_no2\_c.dat

### Related Information



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