

MIRAI MR14-05 MAX-DOAS data

Last Modified: 2016-12-22

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

Cruise ID: [MR14-05](#)

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 (O₂-O₂ or O₄) and NO₂, 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/MR14-05_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

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:

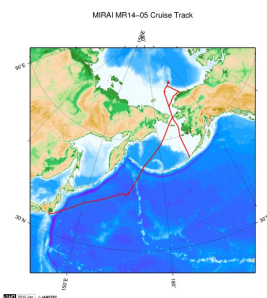
Daytime data only. The measured spectra were selected with a criterion for the elevation angle to be within $\pm 0.5^\circ$ of the target elevation angle and averaged every 1 minute.



Data Format

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

Related Information



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MR14-05

Ship Name: MIRAI

Period: 2014-08-31 - 2014-10-10

Chief Scientist: Jun Inoue (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Predictability study of Arctic cyclones

Title:

Update History

Update Date	Update Content
2016-12-22	An observation data was registerd.

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Cruise ID:

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Dive ID:

POWER GRAB SAMPLER
(SHELL)
POWER GRAB SAMPLER
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BMS

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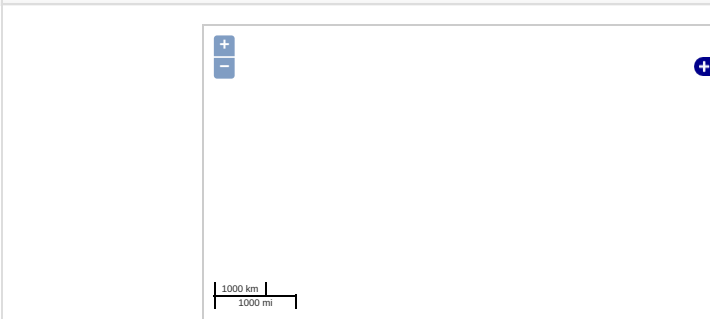
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Observation Map

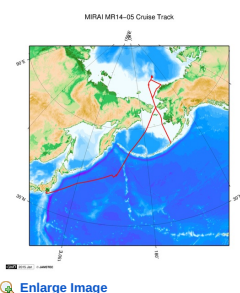


— ... Observation Line — ... Navigation ● ... Observation, Dive Point, Hole

Data List

☐ File names
☐ max_mr1405_aer476_c.dat
☐ max_mr1405_no2_c.dat

Related Information



MR14-05

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Period: 2014-08-31 - 2014-10-10
Chief Scientist: Jun Inoue (JAMSTEC)
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