

MIRAI MR10-05 Leg1 MAX-DOAS data

Last Modified: 2013-02-25

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Cruise ID: [MR10-05 Leg1](#)

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/>).

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR10-05_leg1-2_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.

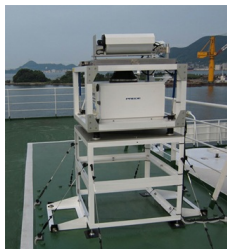
Instrument

Instrument:

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

Instrument Information:

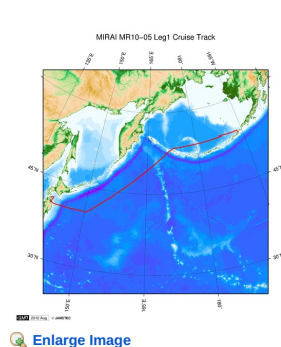
Daytime data only. The measured 1-second spectra were selected with a criterion for the elevation angle to be within $\pm 0.2^\circ$ of the target elevation angle and averaged every 1 minute.



Data Format

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

Related Information



MR10-05 Leg1

Ship Name: MIRAI

Period: 2010-08-24 - 2010-09-01

Chief Scientist: Motoyo Ito (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Arctic Climate Oceanography

Title:

Update History

2013-02-25	An observation data was registered.
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CHIKYU
KAIMEI
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HYPER-DOLPHIN
URASHIMA
YOKOSUKA DEEP TOW
6K Camera DEEP TOW
6K Sonar DEEP TOW
KM-ROV
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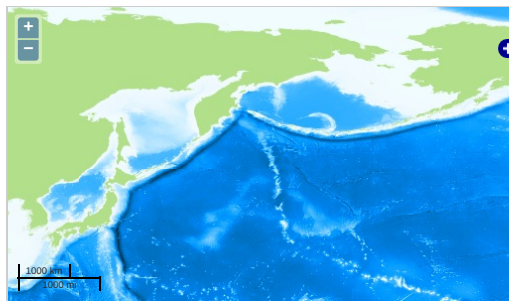
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Science Keywords:

Observation Map



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

Imagery reproduced from ...

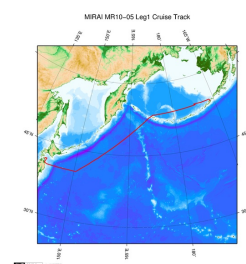
Data List

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File names

☐ max_mr10-05-L1_dscd.dat

Related Information



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