

MIRAI MR11-05 Leg1 MAX-DOAS data

Last Modified: 2014-12-04

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

Cruise ID: [MR11-05 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/>). Vertical column densities (VCDs) are retrieved by using custom VCD conversion software (Y. Kanaya, test121216.exe).

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR11-05_leg1-2_all.pdf

For Using Data

Principal Investigator

Hisahiro TAKASHIMA (Research Institute for Global Change (RIGC)
, Environmental Biogeochemical Cycle Research Program,
, 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:

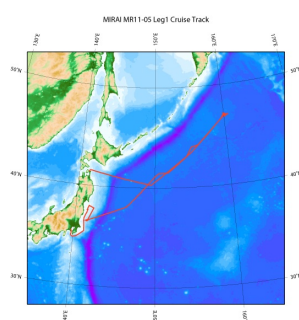
Daytime data only. The measured spectra were selected with a criterion for the elevation angle to be within $\pm 0.2^\circ$ of the target elevation angle and averaged every 1 minute.



Data Format

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

Related Information



 [Enlarge Image](#)

MR11-05 Leg1

Ship Name: MIRAI

Period: 2011-06-26 - 2011-07-16

Chief Scientist: Makio Honda (JAMSTEC)

Project Name: [Station K2, Station KNOT]

Proposal [►](#) Effects of meso-zooplankton on food web and vertical flux

Title:

Update History

2014-12-04	An observation data was registered.
2014-02-28	An observation data was registered.

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Information of the Ships
NATSUSHIMA
KAIYO
YOKOSUKA
MIRAI
KAIREI
CHIKYU
KAIMEI
SHINSEI MARU
HAKUHO MARU

Information of the Submersibles
KAIKO
SHINKAI 2000
SHINKAI 6500
DEEP TOW
HYPER-DOLPHIN
URASHIMA
YOKOSUKA DEEP TOW
6K Camera DEEP TOW
6K Sonar DEEP TOW
KM-ROV
POWER GRAB SAMPLER (SHELL)
POWER GRAB SAMPLER (CLOW)
BMS

Go to a Cruise Information

Cruise ID:

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Dive ID:

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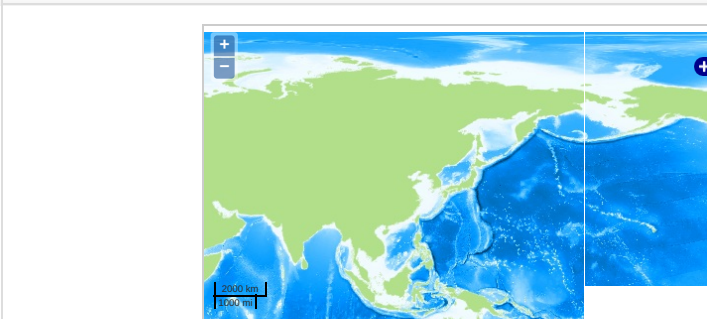
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Science Keywords:

Observation Map



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

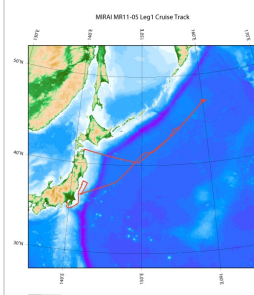
Data List

☐ File names

☐ max_mr1105_aer476_c.dat

☐ max_mr1105_no2_c.dat

Related Information



[Enlarge Image](#)

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Project Name: [Station K2, Station KNOT]
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