MIRAI MR10-05 Leg1 MAX-DOAS data

Last Modified: 2013-02-25

ReadMe | Observation Data

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.

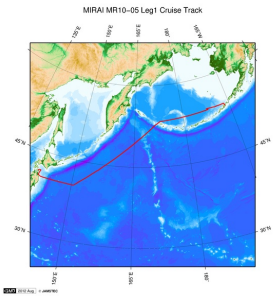
Instrument

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 ±0.2°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

MR10-05 Leg1
Ship Name: MIRAI
Period: 2010-08-24 - 2010-09-01
Chief Scientist: Motoyo Ito (JAMSTEC)
Project Name: [Arctic Ocean Climate System Reaserch]
Proposal ▶ Arctic Climate Oceanography
Title:

Update History

2013-02-25	An observation data was registerd.

JAMSTEC 国立研究開発法人 海洋研究開発機構
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

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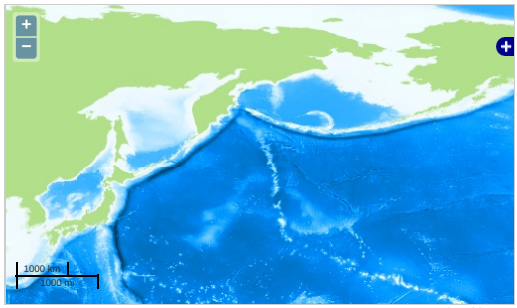
Observation Map



Imagery reproduced from ...

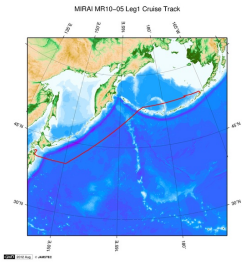
... Observation Line ... Navigation ... Observation, Dive Point, Hole

Data List

Add to Basket

	File names
☐	max_mr10-05-L1_dscd.dat

Related Information



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