

MIRAI MR08-05 Mie-scattering lidar data

Last Modified: 2012-10-27

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

Cruise ID: [MR08-05](#)

Mie-scattering lidar data: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

Data Information

Time-height sections of attenuated backscatter coefficients at 532/1064nm, and volume depolarization ratio at 532 nm. Attenuated backscatter coefficient is estimated using results of inversion with Fernald's method($S_1=50\text{sr}$). Definition of depolarization ratio is S/P. Resolutions are 10 min and 30 m.

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR08-05_all.pdf

For Using Data

Principal Investigator

Nobuo Sugimoto (NIES)
Ichiro Matsui (NIES)
Atsushi Shimizu (NIES)
Tomoaki Nishizawa (NIES)

Use Constraints

Attenuated backscatter coefficients include both of backscatter from molecules and aerosols. They are attenuated by two-way transmittance between the lidar and the target air volume. There is no special treatment above clouds etc.

Data Citation

When lidar data is published, include at least one of scientists in NIES lidar team.

Instrument

Instrument:

NIES dual wavelength polarization
lidar

Instrument Information:

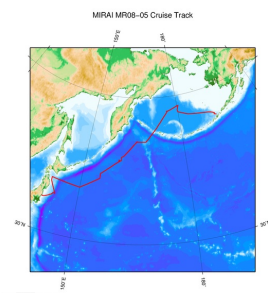
Flash lamp pumped Nd/YAG laser with
Q-switching is employed as light
source. Pulse repetition is 10 Hz.
Diameter of telescope is 20 cm with
1mrad field of view. PMT/APD are
employed for light detection and the
intensities are digitized with 12bit A/D
converters in 6 m range resolution.
Data is acquired in every 10 minutes.



Data Format

netCDF(self documentation)

Related Information



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MR08-05

Ship Name: MIRAI

Period: 2008-10-11 - 2008-11-07

Chief Scientist: Makio Honda (JAMSTEC)

Project Name: [Station K2, Station KNOT]

Proposal ▶ The study of ecosystem and materials' cycle in the North Pacific

Title:

Update History

2012-10-27	An observation data was registered.
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Data Policy

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MIRAI
KAIREI
CHIKYU
KAIMEI
SHINSEI MARU
HAKUHO MARU

SHINKAI 2000
SHINKAI 6500
DEEP TOW
HYPER-DOLPHIN
URASHIMA
YOKOSUKA DEEP TOW
6K Camera DEEP TOW
6K Sonar DEEP TOW
KM-ROV
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BMS

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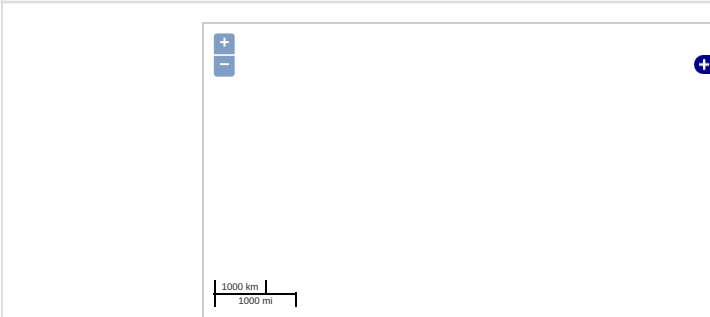
Mie-scattering lidar data: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

Observation Map



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

Imagery reproduced from ...

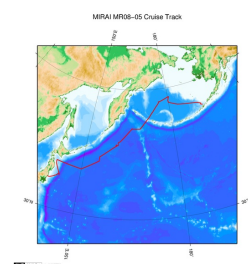
Data List

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File names

MR08-05_lidar.ncdf

Related Information



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MR08-05

Ship Name: MIRAI

Period: 2008-10-11 - 2008-11-07

Chief Scientist: Makio Honda (JAMSTEC)

Project Name: [Station K2.Station KNOT]

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