

MIRAI MR10-02 Mie-scattering lidar data

Last Modified: 2016-04-07

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Cruise ID: [MR10-02](#)

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(S1=50sr). Definition of depolarization ratio is S/P. Resolutions are 10 min (before 0430UTC, April 13)/15 min(after that) and 30 m.

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR10-02_all.pdf

For Using Data

Principal Investigator

Nobuo Sugimoto (NIES)
Ichiro Matsui (NIES)
Atsushi Shimizu (NIES)
Tomoaki Nishizawa (NIES)
JAMSTEC / BPPT joint cruise in the Indonesian waters.

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:

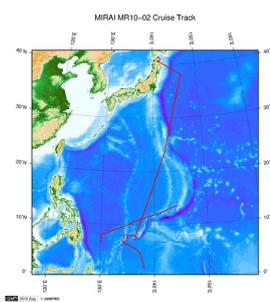
Flash lamp pumped Nd/YAG laser with Q-switching is employed as light source. Pulse repetition is 10 Hz. Diameter of telescope is 20 cm with 1mrad field of view. PMT/APD are employed for light detection and the intensities are digitized with 12bit A/D converters in 6 m range resolution. Data is acquired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



Data Format

netCDF(self documentation)

Related Information



MR10-02

Ship Name: MIRAI
Period: 2010-04-06 - 2010-05-02
Chief Scientist: Kentaro Ando (JAMSTEC)
Project Name: [Tropical Ocean Climate Study (TOCS), Station KEO]
Proposal ▶ Tropical Ocean Climate Study/Operation of TRITON Buoy
Title:

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Update History

2016-04-07	An observation data was registered.
2012-09-28	An observation data was registered.

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Cruise ID:

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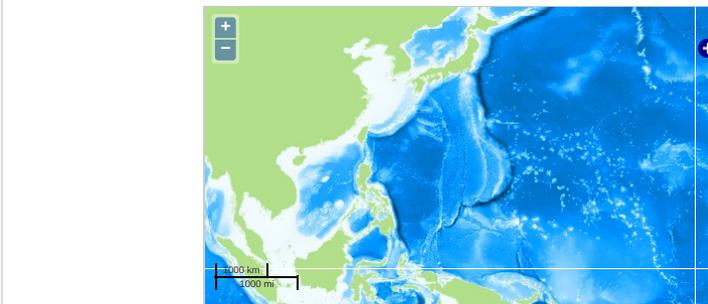
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Observation Map



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

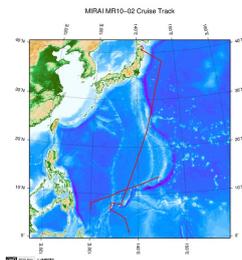
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Data List

File names

MR10-02_lidar.ncdf

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