

MIRAI MR11-06 Mie-scattering lidar data

Last Modified: 2016-04-07

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

Cruise ID: [MR11-06](#)

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 and 30 m.

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR11-06_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:

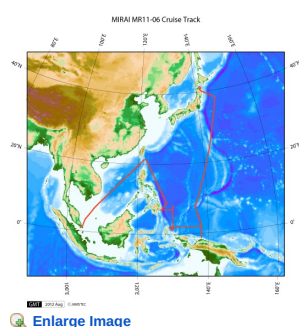
Dual wavelengths laser pulses are emitted into zenith, and scattered light from scatterers in the atmosphere is received by a telescope. Both of time difference from laser emission and light intensity are recorded.



Data Format

netCDF(self documentation)

Related Information



MR11-06

Ship Name: MIRAI
Period: 2011-08-13 - 2011-09-20
Chief Scientist: Yuji Kashino (JAMSTEC)
Project Name: [Tropical Ocean Climate Study (TOCS), Station KEO]
Proposal ▶ Tropical Ocean Climate Study
Title:

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Update History

2016-04-07	An observation data was registered.
2014-02-28	An observation data was registered.

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KAIMEI
SHINSEI MARU
HAKUHO MARU

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

Dive ID:

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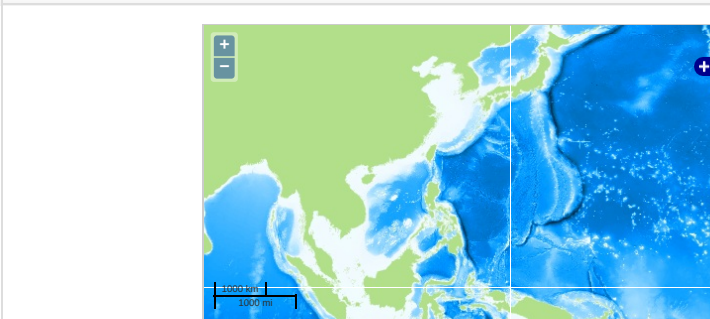
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Observation Map



Imagery reproduced from ...

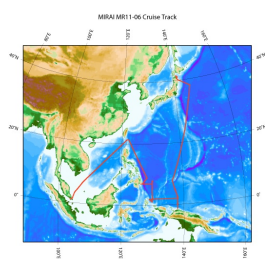
Data List

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File names

☐ MR11-06_lidar.ncdf

Related Information



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