MIRAI MR09-01 Leg1 Mie-scattering lidar data

Last Modified: 2012-09-28

ReadMe | Observation Data

Cruise ID: MR09-01 Leg1
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 15 min and 30 m.

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR09-01_leg1-3_all.pdf

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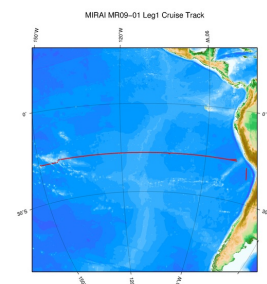NIES dual wavelength polarization lidar
Instrument Information:
Flash lamp pumped Nd/YAG laser with Q-switching is employed as light source. Pulse repetition is 10 Hz. Diameter of telescope is 20 cm with 1mrad field of view. PMT/APD are employed for light detection and the intensities are digitized with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

NO IMAGE

Data Format
netCDF(self documentation)

Related Information

MR09-01 Leg1
Ship Name: MIRAI
Period: 2009-04-10 - 2009-05-19
Chief Scientist: Akihiko Murata (JAMSTEC)
Project Name: [POST-WOCE Hydrography,South Pacific Ocean Research Activity 2009]

🔍 **Enlarge Image**

Update History

2012-09-28	An observation data was registerd.

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Publication List
Amount of Public Info.

Information of the Ships
NATSUSHIMA
KAIYO

Information of the Submersibles
KAIKO

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Data Policy

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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
POWER GRAB SAMPLER (SHELL)
POWER GRAB SAMPLER (CLOW)
BMS

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Dive ID: ---- [▼] [   ] [Go]

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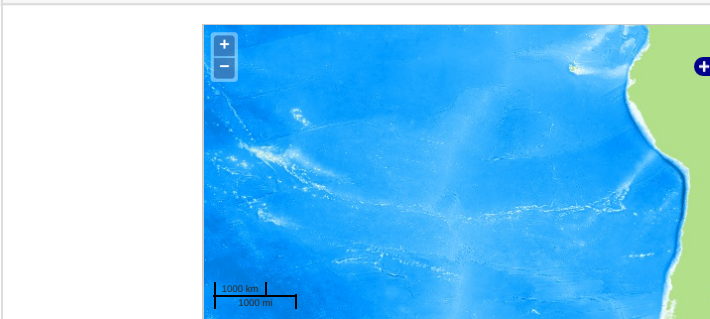JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

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Observation Map

1000 km
1000 mi

Imagery reproduced from ...

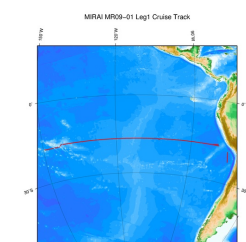—— ... Observation Line   —— ... Navigation   ⊙ ... Observation, Dive Point, Hole

Data List

[Add to Basket]

File names

☐ MR09-01_leg1_lidar.ncdf

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