DARWIN

Data and Sample Research System
for Whole Cruise Information in JAMSTEC

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MIRAI MR10-01 Leg1 Mie-scattering lidar data

Last Modified: 2014-03-06

ReadMe Observation Data

Cruise ID: **MR10-01 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/MR10-01_leg1-2_all.pdf

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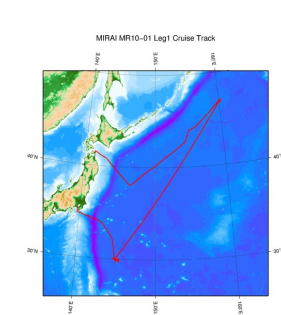
Data Citation
When lidar data is published, include at least one of scientists in NIES lidar team.

Data Format
netCDF(self documentation)

Related Information

MR10-01 Leg1
Ship Name: MIRAI
Period: 2010-01-19 - 2010-02-06
Chief Scientist: Kazuhiko Matsumoto (JAMSTEC)
Project Name: [Station K2,Station S1,Station KEO,Station KNOT]
Proposal ▶ Change in material cycles and ecosystem by the climate change and its feed back
Title:

Enlarge Image

Update History

2014-03-06   An observation data was registerd.
2012-09-28   An observation data was registerd.

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Application for Data and Samples
Data Policy

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Information of the Ships
NATSUSHIMA
KAIYO
YOKOSUKA
MIRAI
KAIREI
CHIKYU
KAIMEI
SHINSEI MARU
HAKUHO MARU

Information of the Submersibles
KAIKO
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

Go to a Cruise Information
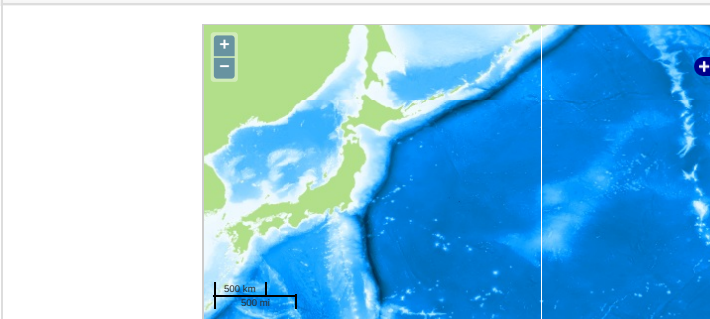Cruise ID: Go

Go to a Dive Information
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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ReadMe | **Observation Data**

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Mie-scattering lidar data: Processed (PI)
Data Policy: **JAMSTEC**
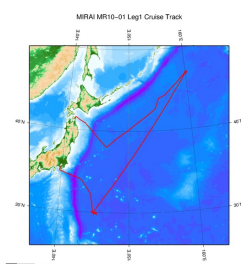**Observation Items**:
Science Keywords:

Observation Map

500 km
500 mi

Imagery reproduced from ...

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

Data List

[Add to Basket]

File names

☐ MR10-01_lidar.ncdf

Related Information

MIRAI MR10-01 Leg1 Cruise Track

🔍 **Enlarge Image**

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