

## MIRAI MR11-07 Leg1 Mie-scattering lidar data

Last Modified: 2014-02-28

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Cruise ID: [MR11-07 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 10 min and 30 m.

### Cruise Report

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/MR11-07\\_leg1-2\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR11-07_leg1-2_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:

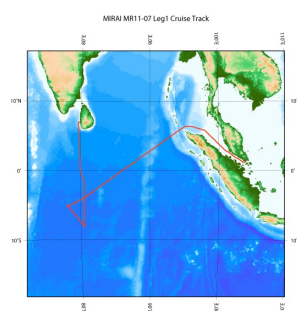
Flash lamp pumped Nd/YAG laser with  
Q-switching is employed as light  
source. Pulse repetition is 10 Hz.  
Diameter of telescope is 20 cm with  
1mrad field of view. PMT/APD are  
employed for light detection and the  
intensities are digitized with 12bit A/D  
converters in 6 m range resolution.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



### Data Format

netCDF(self documentation)

### Related Information



 [Enlarge Image](#)

### MR11-07 Leg1

Ship Name: MIRAI

Period: 2011-09-23 - 2011-10-27

Chief Scientist: Kunio Yoneyama (JAMSTEC)

Project Name: [Cooperative Indian Ocean experiment on intraseasonal variability in the Year 2011,MJO Research]

Proposal ▶ Cooperative Indian Ocean experiment on intraseasonal variability in the Year 2011 (CINDY2011)

Title:

### Update History

2014-02-28	An observation data was registerd.
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KM-ROV  
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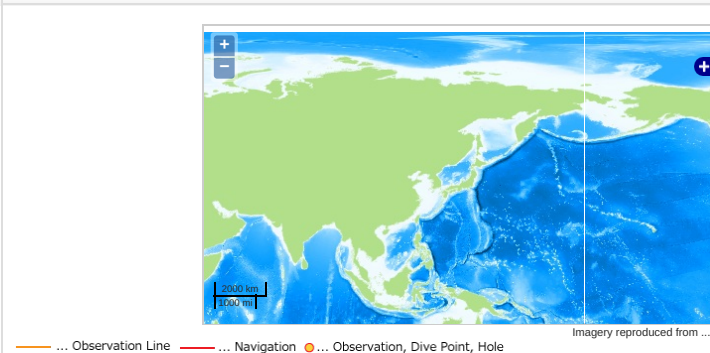
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### Observation Map



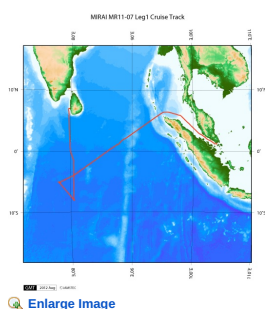
### Data List

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#### File names

☐ MR11-07leg1\_lidar.ncdf

### Related Information



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Ship Name: MIRAI  
Period: 2011-09-23 - 2011-10-27  
Chief Scientist: Kunio Yoneyama (JAMSTEC)  
Project Name: [Cooperative Indian Ocean experiment on intraseasonal variability in the Year 2011,MJO Research]  
Proposal    ▶ Cooperative Indian Ocean experiment on intraseasonal variability in the Year 2011  
Title: (CINDY2011)

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