

## MIRAI MR14-06 Leg1 Aerosol optical properties

Last Modified: 2018-01-23

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

Cruise ID: [MR14-06 Leg1](#)

Aerosol optical properties: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

### Data Information

Objective of this observation is to study distribution and optical characteristics of marine aerosols by using a ship-borne sky radiometer. Furthermore, collections of the data for calibration and validation to the remote sensing data were performed simultaneously.

### Cruise Report

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/MR14-06\\_leg1\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR14-06_leg1_all.pdf)

### For Using Data

#### Principal Investigator

Kazuma Aoki (University of Toyama)

#### Use Constraints

If you are used our data, please contact me (Kazuma Aoki, Univ. of Toyama). Because Ship-borne results is unstable due to difficult observation over the Ocean.

#### Data Citation

Please describe R/V Mirai and Kazuma Aoki (University of Toyama) in the Acknowledgment when your research including data in this cruise. You may consider including Kazuma Aoki as a co-author depending on the situation.

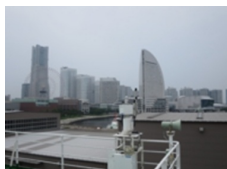
### Instrument

Instrument:

Sky radiometer (POM-01 MK-II,  
PREDE Co. Ltd., Tokyo, Japan)

Instrument Information:

The sky radiometer measures the direct solar irradiance and the solar aureole radiance distribution with seven interference filters (0.34, 0.4, 0.5, 0.675, 0.87, 0.94, and 1.02  $\mu\text{m}$ ). Analysis of these data was performed by SKYRAD.pack version 4.2 developed by Nakajima et al. 1996. Aerosol optical thickness used fifth aerosol wavelength (0.4, 0.5, 0.675, 0.87 and 1.02  $\mu\text{m}$ ).



### Data Format

No Y M D H Lon Lat Day(LT) Alpha T400 T500 T675 T870 T1020:

No(Number),

Y(Year),

M(Month),

D(Day),

H (Hour),

Lon (Longitude),

Lat(Latitude),

Day(Locat Time),

Alpha (Ångström exponent),

T400(Aerosol optical thickness at 400 nm),

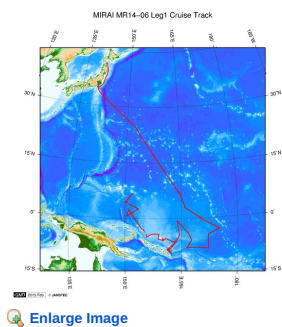
T500(Aerosol optical thickness at 500 nm),

T675(Aerosol optical thickness at 675nm),

T870(Aerosol optical thickness at 870 nm),

T1020(Aerosol optical thickness at 1020 nm)

### Related Information



#### MR14-06 Leg1

Ship Name: MIRAI

Period: 2014-11-04 - 2014-12-17

Chief Scientist: Daisuke Suetsugu (JAMSTEC)

Proposal ▶ Study of structure and formation process of the Ontong Java Plateau

Title:

#### Update History

2018-01-23	An observation data was registerd.
2017-01-31	An observation data was registerd.

#### JAMSTEC

[Site Policy](#)

[Privacy Policy](#)

[Application for Data and Samples](#)

[Data Policy](#)

#### What's New

[Update History](#)

[Feeds](#)

#### Lists

[Publication List](#)

[Amount of Public Info.](#)

#### Data

[Map Search](#)

[Data Tree](#)

[Detailed Search](#)

#### 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

Copyright 2011 Japan Agency for Marine-Earth Science and Technology



**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

## MIRAI MR14-06 Leg1 Aerosol optical properties

Last Modified: 2018-01-23

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

Cruise ID: [MR14-06 Leg1](#)

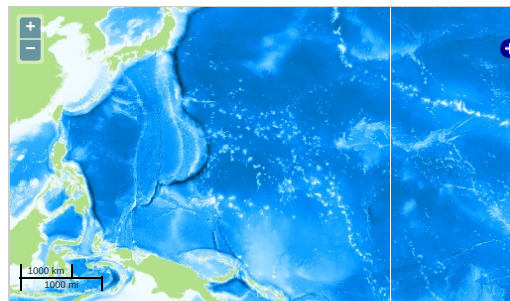
Aerosol optical properties: Processed (PI)

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

### Observation Map



Imagery reproduced from ...

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

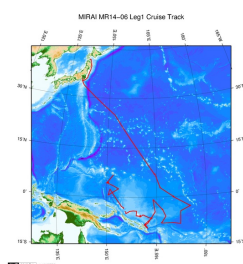
### Data List

[Add to Basket](#)

#### File names

☐ MR1406L0\_V42L0A.txt

### Related Information



[Enlarge Image](#)

#### MR14-06 Leg1

Ship Name: MIRAI

Period: 2014-11-04 - 2014-12-17

Chief Scientist: Daisuke Suetsugu (JAMSTEC)

Proposal ▶ Study of structure and formation process of the Ontong Java Plateau

Title:

### Update History

2018-01-23	An observation data was registered.
2017-01-31	An observation data was registered.

#### JAMSTEC

[Site Policy](#)  
[Privacy Policy](#)  
[Application for Data and Samples](#)  
[Data Policy](#)  
  
[What's New](#)  
[Update History](#)  
[Feeds](#)

#### Lists

[Publication List](#)  
[Amount of Public Info.](#)  
  
[Data](#)  
[Map Search](#)  
[Data Tree](#)  
[Detailed Search](#)

#### 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 to a Dive Information

Dive ID: