

MIRAI MR15-04 Sea-surface Photosynthetically Active Radiation (PAR)

Last Modified: 2017-11-09

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

Cruise ID: [MR15-04](#)

Sea-surface Photosynthetically Active Radiation (PAR) : Raw

Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

OCEANS > OCEAN OPTICS > PHOTOSYNTHETICALLY ACTIVE RADIATION

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR15-04_all.pdf

For Using Data

Principal Investigator

Data Management Office

JAMSTEC / BPPT joint cruise in the Indonesian waters.

Use Constraints

See [Terms and Conditions](#) about constrain of use.

Data Citation

See [Terms and Conditions](#) about data citation.

Period (UTC)

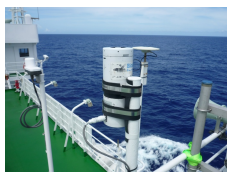
2015-11-05 06:00 – 2015-11-13 16:32

2015-11-15 02:49 – 2015-12-20 02:20

Instrument

Instrument:

Surface Photosynthetically available radiation (PAR) (~MR15-E01)



Overview

Photosynthetically available radiation (PAR) in the air was acquired by the radiometer PUV-510B, which was set up on the deck of the anti-rolling system. In addition, Ultraviolet irradiance (4 wavelengths) are also collected since May 2015 (after MR15-01 cruise).

Specifications

Manufacturer:	Biospherical Instruments Inc.
Type:	PUV-510B
Logging rate:	6 [second]
Location:	Starboard side of the deck on the anti-rolling system (18m from the sea surface)

[PAR]

Measurement wavelength:	400 - 700 [nm]
-------------------------	----------------

[Ultraviolet irradiane]

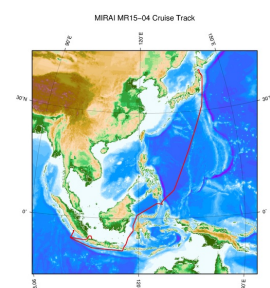
Measurement wavelength:	305, 320, 340, 380 [nm]
-------------------------	-------------------------

Note

File naming rule for PAR_YYMMDD.txt.

PAR_ :	Fixed as 'PAR_'
YYYY :	Recording start Year (UTC)
MM :	Recording start month (UTC)
DD :	Recording start day (UTC)

Related Information



 [Enlarge Image](#)

MR15-04

Ship Name: MIRAI

Period: 2015-11-05 - 2015-12-20

Chief Scientist: Masaki Katsumata (JAMSTEC)

Proposal ▶ Observational study of the heavy rain zone in the tropical eastern Indian ocean

Title:

Update History

2017-11-09	An observation data was registerd.
2017-08-03	An observation data was registerd.
2017-08-02	An observation data was registerd.
2016-06-28	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 to a Dive Information

Dive ID:

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 MR15-04 Sea-surface Photosynthetically Active Radiation (PAR)

Last Modified: 2017-11-09

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

Cruise ID: **MR15-04**

Sea-surface Photosynthetically Active Radiation (PAR) Raw

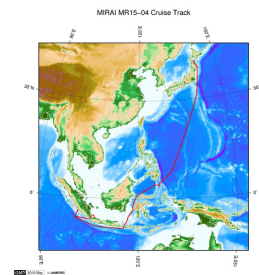
Data Policy: [JAMSTEC](#)

Sea-surface PAR (MR15-01-)

Comma Separated Value

Column No.	Content	Remarks
1	DATE	Year, Month Day [YYYYMMDD]
2	TIME	Hour, Minute, Second [hhmmss]
3	PAR	PAR (Variable length, Floating-point, Exponential Form) [microEinsteins/cm ² /sec]
4	UV(305nm)	Ultraviolet Irradiance;305nm (Variable length, Floating-point, Exponential Form) [microW/cm ² /nm]
5	UV(320nm)	Ultraviolet Irradiance;320nm (Variable length, Floating-point, Exponential Form) [microW/cm ² /nm]
6	UV(340nm)	Ultraviolet Irradiance;340nm (Variable length, Floating-point, Exponential Form) [microW/cm ² /nm]
7	UV(380nm)	Ultraviolet Irradiance;380nm (Variable length, Floating-point, Exponential Form) [microW/cm ² /nm]

Related Information



[Enlarge Image](#)

MR15-04

Ship Name: MIRAI

Period: 2015-11-05 - 2015-12-20

Chief Scientist: Masaki Katsumata (JAMSTEC)

Proposal ▶ Observational study of the heavy rain zone in the tropical eastern Indian ocean

Title:

Update History

2017-11-09	An observation data was registered.
2017-08-03	An observation data was registered.
2017-08-02	An observation data was registered.
2016-06-28	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

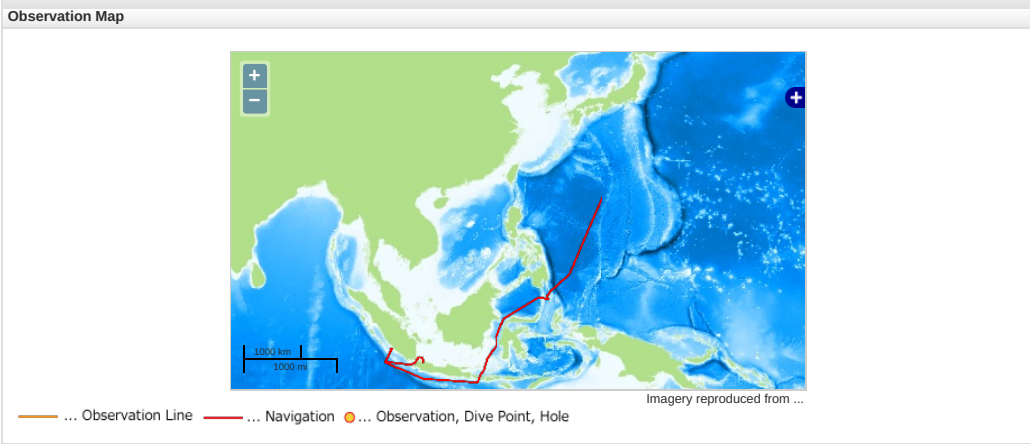
Dive ID:

MIRAI MR15-04 Sea-surface Photosynthetically Active Radiation (PAR)

Last Modified: 2017-11-09

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

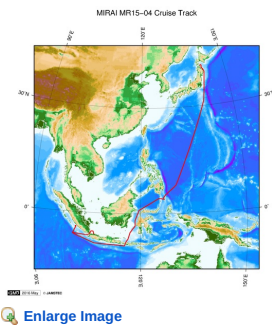
Cruise ID: [MR15-04](#)
Sea-surface Photosynthetically Active Radiation (PAR) : Raw
Data Policy: [JAMSTEC](#)
Observation Items:
Science Keywords:
OCEANS > OCEAN OPTICS > PHOTOSYNTHETICALLY ACTIVE RADIATION



Data List

[Add to Basket](#)

<input type="checkbox"/>	File names
<input type="checkbox"/>	PAR_20151105.txt
<input type="checkbox"/>	PAR_20151106.txt
<input type="checkbox"/>	PAR_20151107.txt
<input type="checkbox"/>	PAR_20151108.txt
<input type="checkbox"/>	PAR_20151109.txt
<input type="checkbox"/>	PAR_20151110.txt
<input type="checkbox"/>	PAR_20151111.txt
<input type="checkbox"/>	PAR_20151112.txt
<input type="checkbox"/>	PAR_20151113.txt
<input type="checkbox"/>	PAR_20151115.txt
<input type="checkbox"/>	PAR_20151116.txt
<input type="checkbox"/>	PAR_20151117.txt
<input type="checkbox"/>	PAR_20151118.txt
<input type="checkbox"/>	PAR_20151119.txt
<input type="checkbox"/>	PAR_20151120.txt
<input type="checkbox"/>	PAR_20151121.txt
<input type="checkbox"/>	PAR_20151122.txt
<input type="checkbox"/>	PAR_20151123.txt
<input type="checkbox"/>	PAR_20151124.txt
<input type="checkbox"/>	PAR_20151125.txt
<input type="checkbox"/>	PAR_20151126.txt
<input type="checkbox"/>	PAR_20151127.txt
<input type="checkbox"/>	PAR_20151128.txt
<input type="checkbox"/>	PAR_20151129.txt
<input type="checkbox"/>	PAR_20151130.txt
<input type="checkbox"/>	PAR_20151201.txt
<input type="checkbox"/>	PAR_20151202.txt
<input type="checkbox"/>	PAR_20151203.txt
<input type="checkbox"/>	PAR_20151204.txt
<input type="checkbox"/>	PAR_20151205.txt
<input type="checkbox"/>	PAR_20151206.txt
<input type="checkbox"/>	PAR_20151207.txt
<input type="checkbox"/>	PAR_20151208.txt
<input type="checkbox"/>	PAR_20151209.txt
<input type="checkbox"/>	PAR_20151210.txt
<input type="checkbox"/>	PAR_20151211.txt
<input type="checkbox"/>	PAR_20151212.txt
<input type="checkbox"/>	PAR_20151213.txt
<input type="checkbox"/>	PAR_20151214.txt
<input type="checkbox"/>	PAR_20151215.txt
<input type="checkbox"/>	PAR_20151216.txt
<input type="checkbox"/>	PAR_20151217.txt
<input type="checkbox"/>	PAR_20151218.txt
<input type="checkbox"/>	PAR_20151219.txt
<input type="checkbox"/>	PAR_20151220.txt



MR15-04

Ship Name: MIRAI

Period: 2015-11-05 - 2015-12-20

Chief Scientist: Masaki Katsumata (JAMSTEC)

Proposal ▶ Observational study of the heavy rain zone in the tropical eastern Indian ocean

Title:

Update History

2017-11-09	An observation data was registerd.
2017-08-03	An observation data was registerd.
2017-08-02	An observation data was registerd.
2016-06-28	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