

## MIRAI MR16-08 Sea-surface Photosynthetically Active Radiation (PAR)

Last Modified: 2017-11-09

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

Cruise ID: [MR16-08](#)

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/MR16-08\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR16-08_all.pdf)

### For Using Data

**Principal Investigator**

Data Management Office

**Use Constraints**

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

**Data Citation**

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

**Period (UTC)**

2016-11-27 07:00 – 2016-12-23 03:00

**Instrument**

Instrument:

Surface Photosynthetically available radiation (PAR) (MR15-01~)



**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 irradiance]

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

**Note**

File naming rule for PAR\_YYYYMMDD.txt.

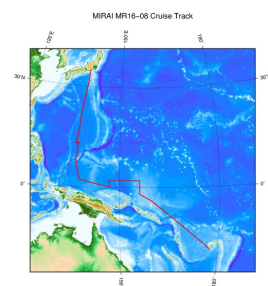
PAR\_ : Fixed as 'PAR\_'

YYYY : Recording start Year (UTC)

MM : Recording start month (UTC)

DD : Recording start day (UTC)

### Related Information



#### MR16-08

Ship Name: MIRAI

Period: 2016-11-27 - 2016-12-23

Chief Scientist: Iwao Ueki (JAMSTEC)

Project Name: [Tropical Ocean Climate Study (TOCS)]

Proposal ▶ Tropical Ocean Climate Study/Operation of TRITON Buoy

Title:

 [Enlarge Image](#)

### Update History

2017-11-09	An observation data was registered.
2017-06-23	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:

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 MR16-08 Sea-surface Photosynthetically Active Radiation (PAR)

Last Modified: 2017-11-09

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

Cruise ID: [MR16-08](#)

Sea-surface Photosynthetically Active Radiation (PAR) Raw

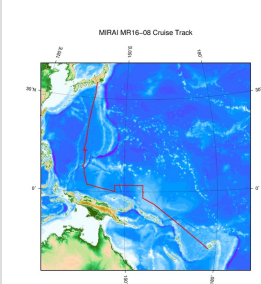
Data Policy: [JAMSTEC](#)

### 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](#)

#### MR16-08

Ship Name: MIRAI  
Period: 2016-11-27 - 2016-12-23  
Chief Scientist: Iwao Ueki (JAMSTEC)  
Project Name: [Tropical Ocean Climate Study (TOCS)]  
Proposal ▶ Tropical Ocean Climate Study/Operation of TRITON Buoy  
Title:

### Update History

2017-11-09	An observation data was registered.
2017-06-23	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 MR16-08 Sea-surface Photosynthetically Active Radiation (PAR)

Last Modified: 2017-11-09

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

Cruise ID: [MR16-08](#)

Sea-surface Photosynthetically Active Radiation (PAR) : Raw

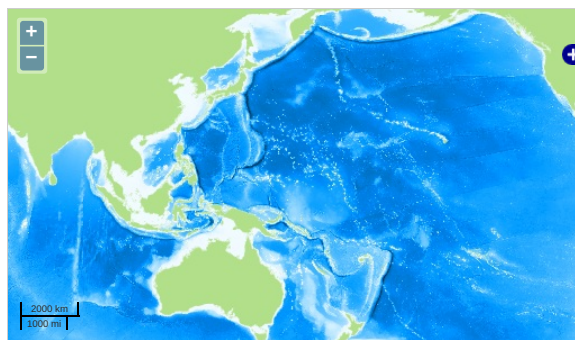
Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

OCEANS > OCEAN OPTICS > PHOTOSYNTHETICALLY ACTIVE RADIATION

### Observation Map



... Observation Line    ... Navigation    ... Observation, Dive Point, Hole    Imagery reproduced from ...

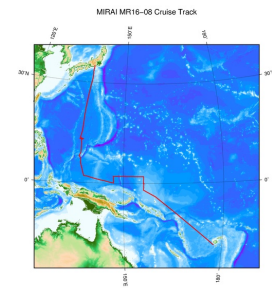
### Data List

[Add to Basket](#)

#### ☐ File names

<input type="checkbox"/>	PAR_20161127.txt
<input type="checkbox"/>	PAR_20161128.txt
<input type="checkbox"/>	PAR_20161129.txt
<input type="checkbox"/>	PAR_20161130.txt
<input type="checkbox"/>	PAR_20161201.txt
<input type="checkbox"/>	PAR_20161202.txt
<input type="checkbox"/>	PAR_20161203.txt
<input type="checkbox"/>	PAR_20161204.txt
<input type="checkbox"/>	PAR_20161205.txt
<input type="checkbox"/>	PAR_20161206.txt
<input type="checkbox"/>	PAR_20161207.txt
<input type="checkbox"/>	PAR_20161208.txt
<input type="checkbox"/>	PAR_20161209.txt
<input type="checkbox"/>	PAR_20161210.txt
<input type="checkbox"/>	PAR_20161211.txt
<input type="checkbox"/>	PAR_20161212.txt
<input type="checkbox"/>	PAR_20161213.txt
<input type="checkbox"/>	PAR_20161214.txt
<input type="checkbox"/>	PAR_20161215.txt
<input type="checkbox"/>	PAR_20161216.txt
<input type="checkbox"/>	PAR_20161217.txt
<input type="checkbox"/>	PAR_20161218.txt
<input type="checkbox"/>	PAR_20161219.txt
<input type="checkbox"/>	PAR_20161220.txt
<input type="checkbox"/>	PAR_20161221.txt
<input type="checkbox"/>	PAR_20161222.txt
<input type="checkbox"/>	PAR_20161223.txt

### Related Information



[Enlarge Image](#)

#### MR16-08

Ship Name: MIRAI  
 Period: 2016-11-27 - 2016-12-23  
 Chief Scientist: Iwao Ueki (JAMSTEC)  
 Project Name: [Tropical Ocean Climate Study (TOCS)]  
 Proposal ▶ Tropical Ocean Climate Study/Operation of TRITON Buoy  
 Title:

#### Update History

2017-11-09	An observation data was registered.
2017-06-23	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:

Copyright 2011 Japan Agency for Marine-Earth Science and Technology



**JAMSTEC**  
 JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

国立研究開発法人  
 海洋研究開発機構