

## MIRAI MR15-05 Leg1 Sea-surface Photosynthetically Active Radiation (PAR)

Last Modified: 2017-11-09

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

Cruise ID: [MR15-05 Leg1](#)

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/MR15-05\\_leg1\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR15-05_leg1_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.

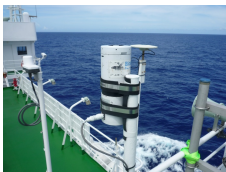
### Period (UTC)

2015-12-23 19:04 – 2016-01-10 22:41

### 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 irradiance]

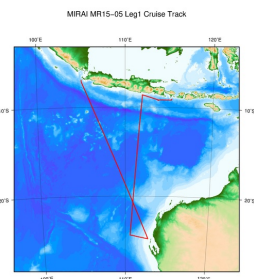
Measurement wavelength: 305, 320, 340, 380 [nm]

### 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



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#### [MR15-05 Leg1](#)

Ship Name: MIRAI

Period: 2015-12-23 - 2016-01-11

Chief Scientist: Katsuro Katsumata (JAMSTEC)

Project Name: [POST-WOCE Hydrography]

Proposal ▶ Research cruise on ocean decadal variability -- Indian Ocean GO-SHIP (Global Ocean

Title: Ship-based Hydrographic Investigation Program)

Update History	
2017-11-09	An observation data was registerd.
2016-07-21	An observation data was registerd.

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KM-ROV  
POWER GRAB SAMPLER (SHELL)  
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Dive ID:

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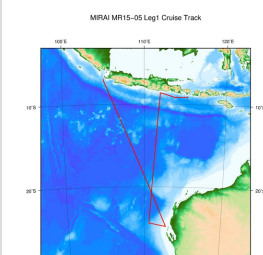
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### Sea-surface PAR (MR15-01-)

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



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#### MR15-05 Leg1

Ship Name: MIRAI

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Project Name: [POST-WOCE Hydrography]

Proposal ▶ Research cruise on ocean decadal variability -- Indian Ocean GO-SHIP (Global Ocean Ship-based Hydrographic Investigation Program)

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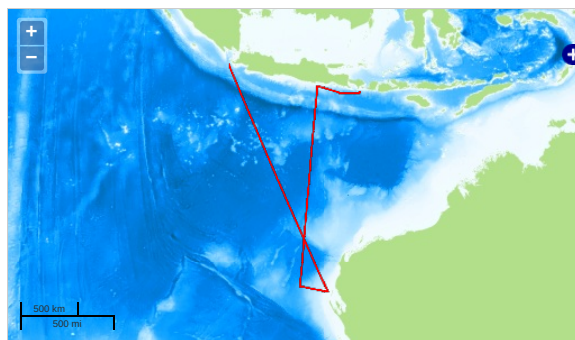
Data Policy: [JAMSTEC](#)

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### Observation Map



Imagery reproduced from ...

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

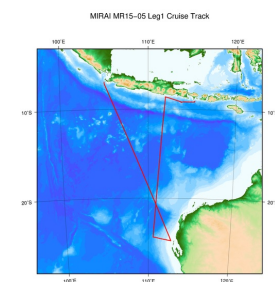
### Data List

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#### File names

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<input type="checkbox"/>	PAR_20160108.txt
<input type="checkbox"/>	PAR_20160109.txt
<input type="checkbox"/>	PAR_20160110.txt

### Related Information



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