

## MIRAI MR15-03 Leg1 Sea-surface Photosynthetically Active Radiation (PAR)

Last Modified: 2017-11-09

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Cruise ID: [MR15-03 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/MR15-03\\_leg1\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR15-03_leg1_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)

2015-08-23 22:50 – 2015-10-06 18:50

### 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

1) 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)

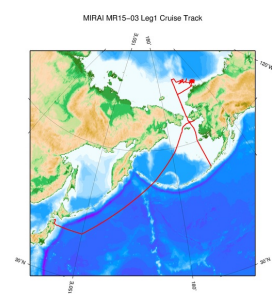
2) During the following periods, data acquisition was suspended due to the system maintenance.

2015/09/07 20:50 - 20:59UTC

2015/09/08 22:10 - 22:12UTC

2015/09/09 07:50 - 16:30UTC

### Related Information



 [Enlarge Image](#)

#### [MR15-03 Leg1](#)

Ship Name: MIRAI

Period: 2015-08-23 - 2015-10-06

Chief Scientist: Shigeto Nishino (JAMSTEC)

Project Name: [Arctic Ocean Climate System Reaserch]

Proposal ▶ Observational studies on the Arctic Ocean climate and ecosystem variability

Title:

#### Update History

2017-11-09	An observation data was registerd.
2016-04-25	An observation data was registerd.

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[Amount of Public Info.](#)

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[Map Search](#)  
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Cruise ID:

#### Go to a Dive Information

Dive ID:

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海洋研究開発機構  
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

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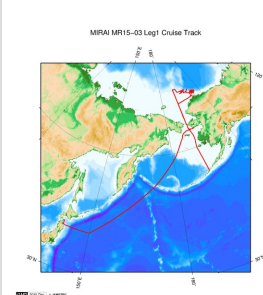
Data Policy: [JAMSTEC](#)

### 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](#)

#### MR15-03 Leg1

Ship Name: MIRAI

Period: 2015-08-23 - 2015-10-06

Chief Scientist: Shigeto Nishino (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Observational studies on the Arctic Ocean climate and ecosystem variability

Title:

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[Amount of Public Info.](#)  
  
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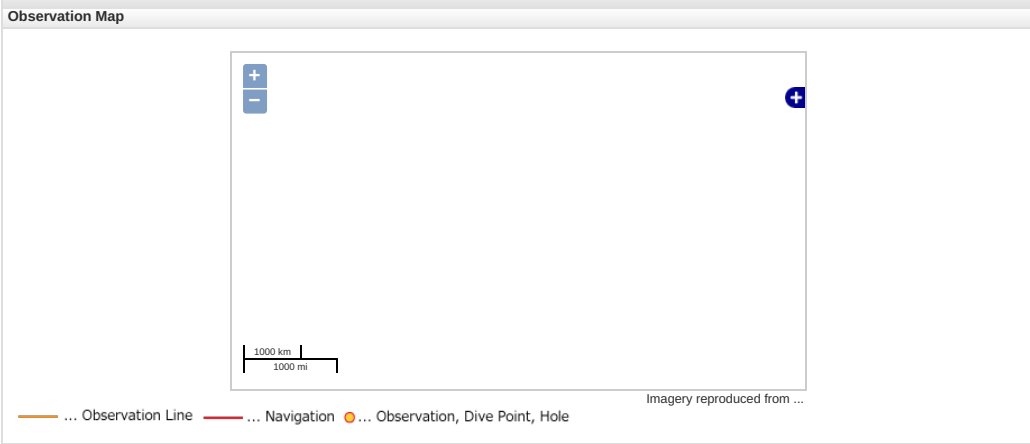
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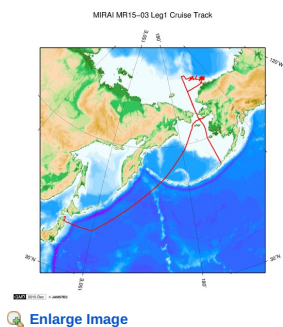
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Data List

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