

## MIRAI MR17-05C Sea-surface Photosynthetically Active Radiation (PAR)

Last Modified: 2018-03-21

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

Cruise ID: [MR17-05C](#)

Sea-surface Photosynthetically Active Radiation (PAR) : Raw

Data Policy: [JAMSTEC](#)

Observation Items: PAR

Science Keywords:

OCEANS > OCEAN OPTICS > PHOTOSYNTHETICALLY ACTIVE RADIATION

Cruise Report

[http://www.godac.jamstec.go.jp/catalog/data/doc\\_catalog/media/MR17-05C\\_all.pdf](http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR17-05C_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.

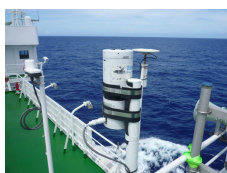
### Period (UTC)

2017-08-24 00:10 – 2017-10-01 00:00

### 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.

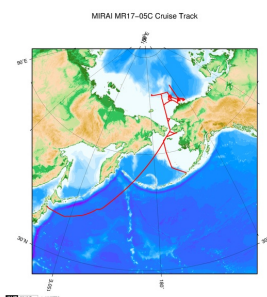
PAR\_ : Fixed as 'PAR\_'

YYYY : Recording start Year (UTC)

MM : Recording start month (UTC)

DD : Recording start day (UTC)

### Related Information



#### MR17-05C

Ship Name: MIRAI

Period: 2017-08-24 - 2017-10-01

Chief Scientist: Shigeto Nishino (JAMSTEC)

Project Name: [Arctic Ocean Climate System Research]

Proposal ▶ Arctic Challenge for Sustainability (ArCS)

Title:

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### Update History

2018-03-21 An observation data was registered.

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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

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KAIKO  
SHINKAI 2000  
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KM-ROV  
POWER GRAB SAMPLER (SHELL)  
POWER GRAB SAMPLER (CLOW)  
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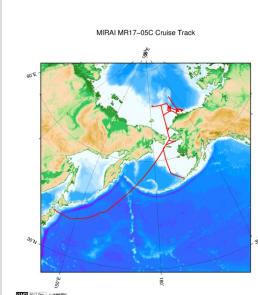
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### Sea-surface PAR (MR15-01-)

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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[Update History](#)  
[Feeds](#)

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

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[Detailed Search](#)

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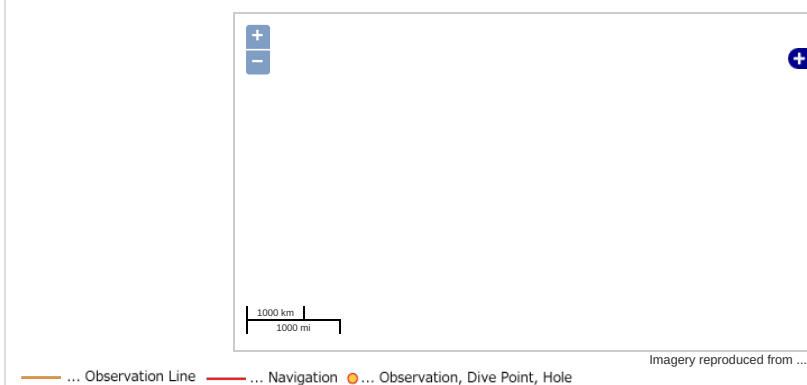
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### Observation Map



### Data List

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#### ☐ File names

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<input type="checkbox"/>	PAR_20170929.txt
<input type="checkbox"/>	PAR_20170930.txt



MIRAI MR17-05C Cruise Track

[Enlarge Image](#)

**MR17-05C**

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