

MIRAI MR19-02 Sea-surface Photosynthetically Active Radiation (PAR)

Last Modified: 2019-11-23

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

Cruise ID: [MR19-02](#)

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/MR19-02_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)

2019-05-24 00:00 – 2019-06-14 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

1) File naming rule for PAR_YYYYMMDD.txt.

PAR_ : Fixed as 'PAR_'

YYYY : Recording start Year (UTC)

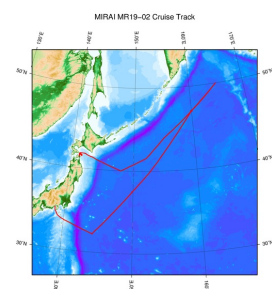
MM : Recording start month (UTC)

DD : Recording start day (UTC)

2) The following period, PAR data was invalid due to the instrument trouble.

2019/05/24 00:00 - 09:07UTC

Related Information



 [Enlarge Image](#)

MR19-02

Ship Name: MIRAI

Period: 2019-05-24 - 2019-06-14

Chief Scientist: Tetsuichi Fujiki (JAMSTEC)

Project Name: [Station K2, Station KEO, Station KNOT]

Proposal The observational study to construct and to extend the western Pacific super site network

Title:

Update History	
2019-11-23	An observation data was registerd.

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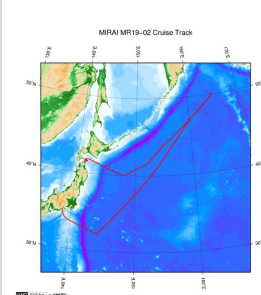
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Sea-surface PAR (MR15-01-)

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) [microEinstein/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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Proposal Title: The observational study to construct and to extend the western Pacific super site network

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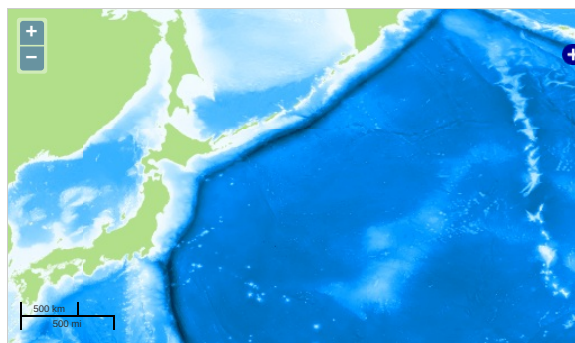
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Observation Map



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

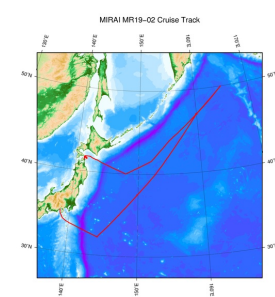
Data List

[Add to Basket](#)

File names

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Related Information



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