

MIRAI MR20-E01 Sea-surface Photosynthetically Active Radiation (PAR)

Last Modified: 2020-12-25

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Cruise ID: [MR20-E01](#)

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/MR20-E01_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)

2020-08-01 00:00 – 2020-09-13 22:50

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)

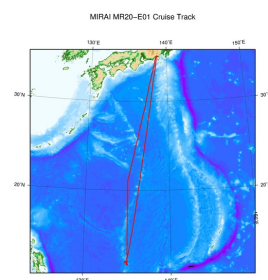
MM : Recording start month (UTC)

DD : Recording start day (UTC)

2) The following period, PAR and ultraviolet irradiance data were invalid due to the instrument trouble.

2020/08/12 11:21 - 2020/08/13 00:58UTC

Related Information



MR20-E01

Ship Name: MIRAI

Period: 2020-08-01 - 2020-09-13

Chief Scientist: Satoru Yokoi (JAMSTEC)

Proposal ▶ Study on air-sea interaction associated with the northward-propagating boreal summer intraseasonal oscillation

Title: intraseasonal oscillation

 [Enlarge Image](#)

Update History	
2020-12-25	An observation data was registerd.

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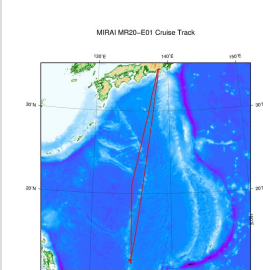
Data Policy: [JAMSTEC](#)

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



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Period: 2020-08-01 - 2020-09-13

Chief Scientist: Satoru Yokoi (JAMSTEC)

Proposal ▶ Study on air-sea interaction associated with the northward-propagating boreal summer intraseasonal oscillation

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[Feeds](#)

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

Data

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[Data Tree](#)
[Detailed Search](#)

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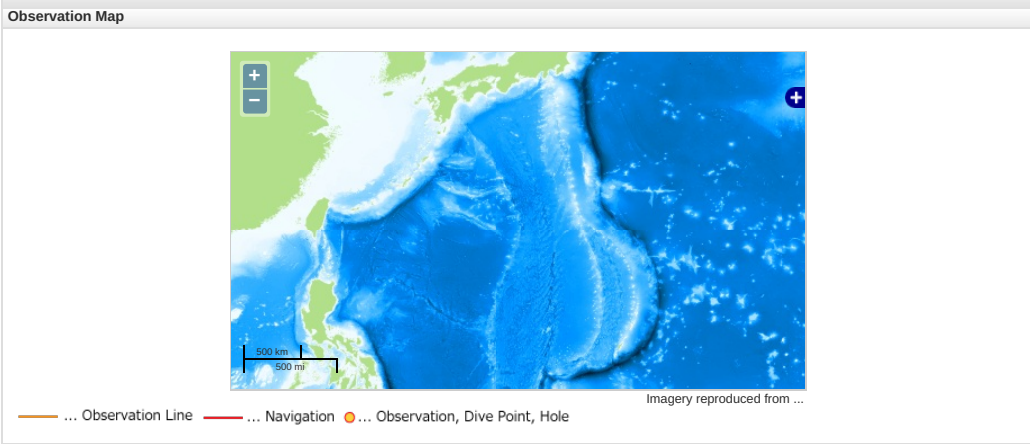
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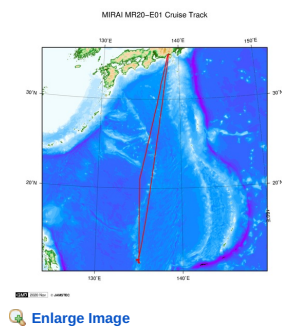
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Data List

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<input type="checkbox"/>	PAR_20200912.txt
<input type="checkbox"/>	PAR_20200913.txt



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