

MIRAI MR15-05 Leg2 Sea-surface Photosynthetically Active Radiation (PAR)

Last Modified: 2017-11-09

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

Cruise ID: [MR15-05 Leg2](#)

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_leg2_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.

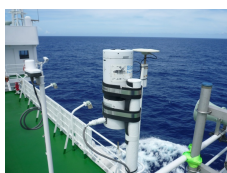
Period (UTC)

2016-01-17 13:35 – 2016-01-24 23:50

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]

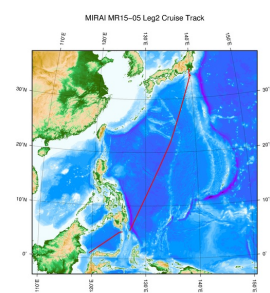
Measurement wavelength: 305, 320, 340, 380 [nm]

Note

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 Leg2](#)

Ship Name: MIRAI

Period: 2016-01-13 - 2016-01-24

Chief Scientist: Akihiko Murata (JAMSTEC)

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

Update History

2017-11-09 An observation data was registered.

2016-07-24

An observation data was registerd.

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JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

国立研究開発法人
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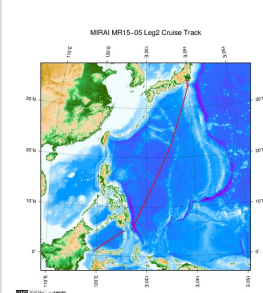
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Sea-surface PAR (MR15-01-)

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 Leg2

Ship Name: MIRAI

Period: 2016-01-13 - 2016-01-24

Chief Scientist: Akihiko Murata (JAMSTEC)

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

Update History

| | |
|------------|-------------------------------------|
| 2017-11-09 | An observation data was registered. |
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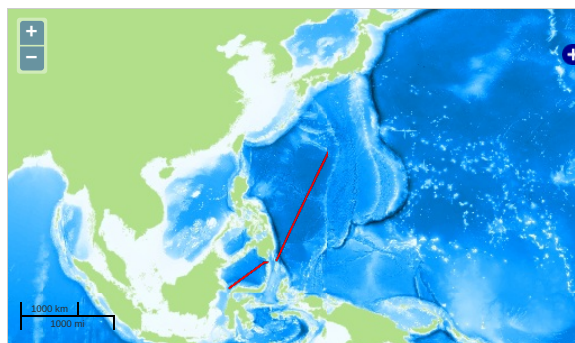
Data Policy: [JAMSTEC](#)

Observation Items:

Science Keywords:

OCEANS > OCEAN OPTICS > PHOTOSYNTHETICALLY ACTIVE RADIATION

Observation Map



Imagery reproduced from ...

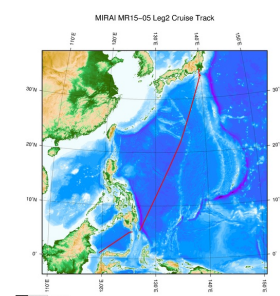
... Observation Line ... Navigation ... Observation, Dive Point, Hole

Data List

File names

☐ PAR_20160117.txt
☐ PAR_20160118.txt
☐ PAR_20160119.txt
☐ PAR_20160120.txt
☐ PAR_20160121.txt
☐ PAR_20160122.txt
☐ PAR_20160123.txt
☐ PAR_20160124.txt

Related Information



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MR15-05 Leg2

Ship Name: MIRAI

Period: 2016-01-13 - 2016-01-24

Chief Scientist: Akihiko Murata (JAMSTEC)

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

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