

For Using Data

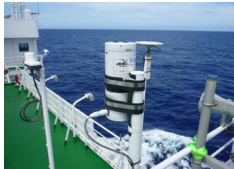
Data Policy	JAMSTEC
Principal Investigator	Data Management Office
Use Constraints	See Terms and Conditions about constrain of use.
Data Citation	See Terms and Conditions about data citation.

Quality

Raw

Instrument

Surface photosynthetically available radiation (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).

Measurement System

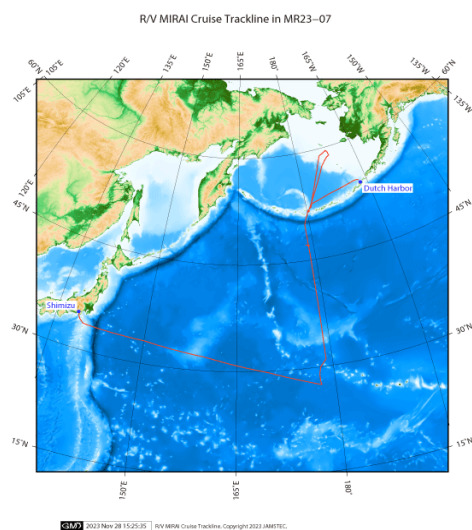
Manufacturer :	Biospherical Instruments Inc.
Type :	PUV-510B
Logging rate :	6 [second]
Location :	Starboard side of the deck on the anti-rolling system (18 m from the sea surface)
[PAR]	
Measurement wavelength :	400 - 700 [nm]
[Ultraviolet irradiance]	
Measurement wavelength :	305, 320, 340, 380 [nm]

Note

- 1) File naming rule for PAR_YYYYMMDD.txt.

PAR_ :	Fixed as 'PAR_'
YYYY :	Recording start Year (UTC)
MM :	Recording start Year (UTC)
DD :	Recording start day (UTC)
- 2) During the following period, PAR and Ultraviolet irradiance data were invalid due to the sysytem trouble.
2023/10/06 17:00 - 2023/10/06 22:36

Related Information



MR23-07

Ship Name:	MIRAI
Period:	2023/10/06 - 2023/11/08
Chief Scientist:	Katsuro Katsumata (JAMSTEC)
Proposal:	Quantitative observation experiment in the North Pacific subarctic gyre — GO-SHIP Observation P14
	Organic alkalinity
	Float Deployments with GO-BGC
	Biology Observation with GO-SHIP
	Distribution of Iodine and Iodites in the North Pacific Ocean
	Biogeography of Plankton in the North Pacific Ocean
	Vertical mixing and transport of heat and material in the North Pacific Ocean and Bering Sea
	Float Deployments to Capture Environmental Changes in the North Pacific Ocean
	Polycyclic Aromatic Hydrocarbons, Radium, Cesium
	Multifaceted Observation of Cloud and Rain System in the North Pacific
	Speciation of Iodine, Ammonia, Nitrite in the North Pacific Ocean
	Deployment of EM-APEX floats as part of US Partnership Project
	Experiment on DFMC SBASS from QZSS

Format Description for Sea-surface PAR (MIRAI)

Comma Separated Value

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]