

For Using Data

Data Policy	JAMSTEC
Principal Investigator	Akihiko Murata (JAMSTEC)
Use Constraints	See Terms and Conditions about constrain of use.
Data Citation	See Terms and Conditions about data citation.

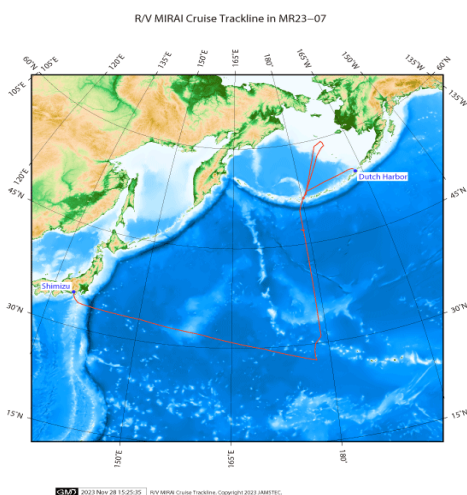
Quality level

PI-Processed

InstrumentpCO₂ measurement system (MR20-05C -)**About this data**

For details about observation data and sensors, please refer to the Cruise report (DOI : 10.17596/0003832) and the Data book "WHP P14N REVISIT IN 2023 DATABOOK" (DOI : 10.17596/0004015).

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 pCO₂ FORMAT_J

Air-xCO₂

The file is in fixed comma separated text file (csv) format.

The "missing value" is defined as -999.

No.	Content	Unit	Remarks
1	Date (UTC)		Year, Month, Day
2	Time (UTC)		Hour, Minute, Second
3	Latitude	degree	Positive in north
4	Longitude	degree	Degree in eastward (0 - 360)
5	Sea surface temperature	degree-C	
6	Sea surface salinity	PSU	
7	Air pressure	hPa	
8	Wind direction	degree	
9	Wind speed	m/s	
10	xCO ₂ in dry air	ppmv	

Sea-xCO₂

The file is in fixed comma separated text file (csv) format.

The "missing value" is defined as -999.

No.	Content	Unit	Remarks
1	Date (UTC)		Year, Month, Day
2	Time (UTC)		Hour, Minute, Second
3	Latitude	degree	Positive in north
4	Longitude	degree	Degree in eastward (0 - 360)
5	Sea surface temperature	degree-C	
6	Sea surface salinity	PSU	
7	Equilibrator temperature	degree-C	
8	Equilibrator pressure	hPa	
9	Air pressure	hPa	
10	xCO ₂ in equilibrator	ppmv	
11	pCO ₂ in equilibrator	μ atm	
12	pCO ₂ at SST	μ atm	
13	xCO ₂ in sea surface water	ppmv	