

For Using Data

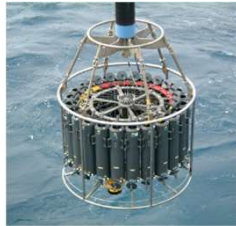
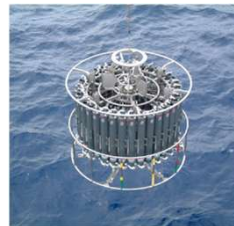
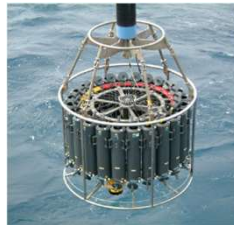
Data Policy	JAMSTEC
Principal Investigator	Hiroshi Uchida (JAMSTEC)
Use Constraints	See Terms and Conditions about constrain of use.
Data Citation	See Terms and Conditions about data citation.

Quality

PI-Processed

Instrument

CTD (Conductivity-Temperature-Depth profiler)

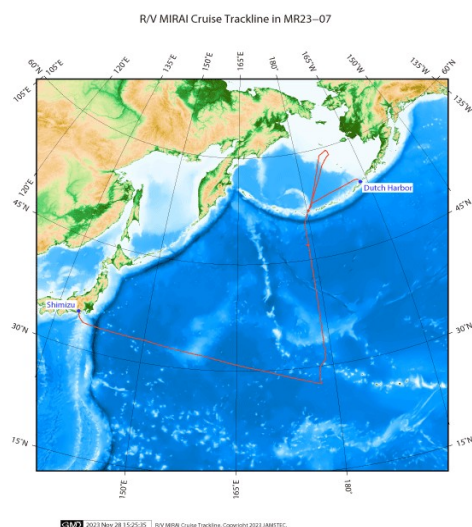
Water sampling system with CTD
(12litters * 36 bottles)Water sampling system with CTD
(12litters * 12 bottles)Water sampling system with CTD
(30litters * 24 bottles)**Overview**

CTD(Conductivity-Temperature-Depth profiler) is used to observe the vertical profiles of temperature and conductivity. Usually, this system is operated with multicylinder water sampler. Observed signal is transmitted from sensor to the operation room on board using wire cable, and electric power is supplied from vessel to sensor.

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

Exchange Format Description for CTD

Provided in the Exchange Format of CCHDO (CLIVAR and Carbon Hydrographic Data Office). Please see the following url for details of Exchange Format.

*<https://cchdo.ucsd.edu/formats>

Header part

No.	Content	Remarks
1	NUMBER_HEADERS	Number of header lines
2	EXPOCODE	Expedition code
3	SECT_ID	Cruise section identification number
4	STNNBR	Station number
5	CASTNO	Cast number
6	DATE	Date
7	TIME	Time (UTC)
8	LATITUDE	Latitude (No sign for the northern hemisphere. Negative for the southern hemisphere.)
9	LONGITUDE	Longitude (No sign for the eastern hemisphere. Negative for the western hemisphere.)
10	DEPTH	Depth (m)

Data part

No.	Content	Unit	Remarks
1	CTDPRS	DBAR	Pressure measured by the CTD
2	CTDPRS_FLAG_W		CTDPRS data quality flag (see below)
3	CTDTMP	ITS-90	Temperature measured by the CTD
4	CTDTMP_FLAG_W		CTDTMP data quality flag (see below)
5	CTDSAL	PSS-78	Salinity measured by the CTD
6	CTDSAL_FLAG_W		CTDSAL data quality flag (see below)
7	CTDOXY	UMOL/KG	Oxygen measured by the RINKO III
8	CTDOXY_FLAG_W		CTDOXY data quality flag (see below)
9	CTDFLUOR	MG/CUM	Chlorophyll-a measured by the Fluorometer
10	CTDFLUOR_FLAG_W		CTDFLUOR data quality flag (see below)
11	CTDCDOM	RU	Colored Dissolved Organic Matter measured by the Ultraviolet Fluorometer
12	CTDCDOM_FLAG_W		CTDCDOM data quality flag (see below)
13	CTDTURB	FTU	Turbidity measured by the Turbidity meter
14	CTDTURB_FLAG_W		CTDTURB data quality flag (see below)
15	CTDXMISS	%TRANS	Transmissivity of light measured by the Transmissometer
16	CTDXMISS_FLAG_W		CTDXMISS data quality flag (see below)
17	CTDBEAMCP	/METER	Beam attenuation coefficient measured by the Transmissometer
18	CTDBEAMCP_FLAG_W		CTDBEAMCP data quality flag (see below)
19	PAR	UMOL/M^2/SEC	Photosynthetically Active Radiation measured by the PAR sensor
20	PAR_FLAG_W		PAR data quality flag (see below)

Quality flags definitions for CTD data

1 = Not calibrated.
2 = Acceptable measurement.
3 = Questionable measurement.
4 = Bad measurement.
5 = Not reported.
6 = Interpolated over >1 dbar interval.
7 = Despiked.
9 = Not sampled.