

For Using Data

Data Policy	JURCAOS-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

CTD (Conductivity-Temperature-Depth profiler)



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.

Details of sensors attached to CTD system for this cruise are presented in “Measurement System”.

The following software, developed and supplied by the Sea-Bird Scientific, was used in this cruise.

SEASAVE(ver 7.26.7.121) for data acquisition

SBEDataProcessing(ver 7.26.7.129) for data processing

Data presented on this website is averaged over 1db.

Measurement System

1) Pressure sensor

Manufacturer :	Sea-Bird Scientific
Type :	SBE9plus
Serial No. :	951
Measurement range :	up ~ 10500 m
Accuracy :	0.015% F.S.
Resolution :	0.001% F.S.

2) Temperature sensor

Manufacturer :	Sea-Bird Scientific
Type :	SBE3
Serial No. :	0893, 5124
Measurement range :	-5 ~ 35 deg-C
Accuracy :	0.001 deg-C
Resolution :	0.0002 deg-C

3) Conductivity sensor (Salinity sensor)

Manufacturer :	Sea-Bird Scientific
Type :	SBE4
Serial No. :	2978, 4045
Measurement range :	0.0 ~ 7 S/m
Accuracy :	0.0003 S/m
Resolution :	0.00004 S/m

4) Dissolved Oxygen sensor

Manufacturer :	Sea-Bird Scientific
Type :	SBE43
Serial No. :	3304, 0775, 0781
Accuracy :	120% of surface saturation
Resolution :	2% of saturation

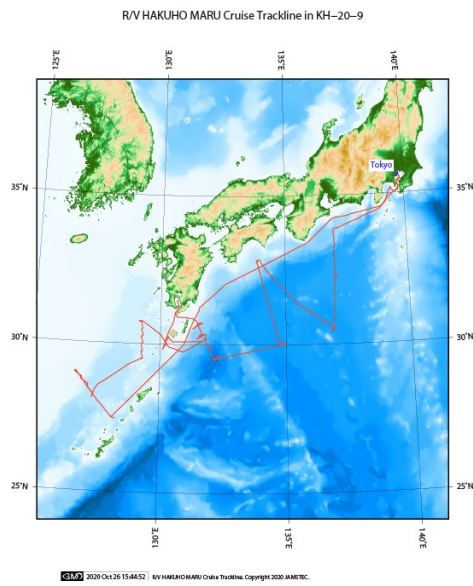
Use sensors

Sensors used in each cast is as follows.

Cast name	Pressure	Temperature	Salinity	Dissolved Oxygen
dOK6-r	951	0893	2978	3304
dOK6-r Secondary	-	5124	4045	0781
dOK6-2	951	0893	2978	3304
dOK6-2 Secondary	-	5124	4045	0781
dOK4-r	951	0893	2978	3304
dOK4-r Secondary	-	5124	4045	0781
dOK3-r	951	0893	2978	3304
dOK3-r Secondary	-	5124	4045	0781
dOK3-2	951	0893	2978	3304
dOK3-2 Secondary	-	5124	4045	0781
dOK2-r	951	0893	2978	3304
dOK2-r Secondary	-	5124	4045	0781
dOK1b-r	951	0893	2978	3304
dOK1b-r Secondary	-	5124	4045	0781
dOK1-r	951	0893	2978	3304
dOK1-r Secondary	-	5124	4045	0781
dOK1-2	951	0893	2978	3304
dOK1-2 Secondary	-	5124	4045	0781
dTA6-r	951	0893	2978	3304
dTA6-r Secondary	-	5124	4045	0781
dTA6-2	951	0893	2978	3304
dTA6-2 Secondary	-	5124	4045	0781
dTA5-r	951	0893	2978	3304
dTA5-r Secondary	-	5124	4045	0781
dTA4-r	951	0893	2978	3304
dTA4-r Secondary	-	5124	4045	0781
dTA3-r	951	0893	2978	3304
dTA3-r Secondary	-	5124	4045	0781
dTA3-2	951	0893	2978	3304
dTA3-2 Secondary	-	5124	4045	0781
dTA2-r	951	0893	2978	3304
dTA2-r Secondary	-	5124	4045	0781
dTA1-r	951	0893	2978	3304
dTA1-r Secondary	-	5124	4045	0781
dTA1-2	951	0893	2978	3304
dTA1-2 Secondary	-	5124	4045	0781
dTV1-r	951	0893	2978	3304
dTV1-r Secondary	-	5124	4045	0781
dTV2-r	951	0893	2978	3304
dTV2-r Secondary	-	5124	4045	0781
dTV3-r	951	0893	2978	3304
dTV3-r Secondary	-	5124	4045	0781
dTV4-r	951	0893	2978	3304
dTV4-r Secondary	-	5124	4045	0781
dtB2-r	951	0893	2978	3304
dtB2-r Secondary	-	5124	4045	0781
dtB2-2	951	0893	2978	3304

dTB2-2 Secondary	-	5124	4045	0781
dTB3-r	951	0893	2978	3304
dTB3-r Secondary	-	5124	4045	0781
dTB4-r	951	0893	2978	3304
dTB4-r Secondary	-	5124	4045	0781
dTC1-r	951	0893	2978	3304
dTC1-r Secondary	-	5124	4045	0775
dTC2-r	951	0893	2978	3304
dTC2-r Secondary	-	5124	4045	0775
dTC3-r	951	0893	2978	3304
dTC3-r Secondary	-	5124	4045	0775
dTC3-2	951	0893	2978	3304
dTC3-2 Secondary	-	5124	4045	0775
dTC4-r	951	0893	2978	3304
dTC4-r Secondary	-	5124	4045	0775
dTC5-r	951	0893	2978	3304
dTC5-r Secondary	-	5124	4045	0775
dTC6-r	951	0893	2978	3304
dTC6-r Secondary	-	5124	4045	0775
dTC6-2	951	0893	2978	3304
dTC6-2 Secondary	-	5124	4045	0775
dW1-r	951	0893	2978	3304
dW1-r Secondary	-	5124	4045	0775
dW1-2	951	0893	2978	3304
dW1-2 Secondary	-	5124	4045	0775
dCR-r	951	0893	2978	3304
dCR-r Secondary	-	5124	4045	0775
dCR-2	951	0893	2978	3304
dCR-2 Secondary	-	5124	4045	0775
dM1-r	951	0893	2978	3304
dM1-r Secondary	-	5124	4045	0775
dM2-r	951	0893	2978	3304
dM2-r Secondary	-	5124	4045	0775
dM3-r	951	0893	2978	3304
dM3-r Secondary	-	5124	4045	0775
dM4-r	951	0893	2978	3304
dM4-r Secondary	-	5124	4045	0775
dM4-2	951	0893	2978	3304
dM4-2 Secondary	-	5124	4045	0775
dM5-r	951	0893	2978	3304
dM5-r Secondary	-	5124	4045	0775
dM6-r	951	0893	2978	3304
dM6-r Secondary	-	5124	4045	0775
dM6-2	951	0893	2978	3304
dM6-2 Secondary	-	5124	4045	0775
dM7-r	951	0893	2978	3304
dM7-r Secondary	-	5124	4045	0775
dM8-r	951	0893	2978	3304
dM8-r Secondary	-	5124	4045	0775

Related Information



KH-20-9

Ship Name: HAKUHO MARU
Period: 2020/09/10 - 2020/10/05
Chief Scientist: Hiroaki Saito (AORI, The University of Tokyo)
Proposal: Study of the hotspots of nutrient supply in the Kuroshio region: For solving the Kuroshio Paradox

Format Description for CTD Raw

About Data Filename

The "d" at the beginning of each filename stands for "downcast".

Data part

No.	項目	単位
prDM	Pressure	dbar
t090C	Temperature (Primary)	ITS-90, deg C
t190C	Temperature (Secondary)	ITS-90, deg C
c0S/m	Conductivity (Primary)	S/m
c1S/m	Conductivity (Secondary)	S/m
fISP	Fluorescence, Seapoint	
fISP1	Fluorescence, Seapoint (Secondary)	
sal00	Salinity, Practical (Primary)	PSU
sal11	Salinity, Practical (Secondary)	PSU
density00	Density (Primary)	density, kg/m3
density01	Density (Secondary)	density, kg/m3
svDM	Sound Velocity (Primary)	Delgross, m/s
svDM1	Sound Velocity (Secondary)	Delgross, m/s
potemp090C	Potential Temperature (Primary)	ITS-90, deg C
potemp190C	Potential Temperature (Secondary)	ITS-90, deg C
sbox0ML/L	Oxygen, SBE 43 (Primary)	ml/l
sbox0MML/L	Oxygen, SBE 43 (Secondary)	ml/l