



HOKKAIDO UNIVERSITY

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10.

THE "OSHORO MARU" CRUISE 249 SEA of OKHOTSK

IN NOVEMBER 2012

1. Cruise Itinerary

Cruise 249

Departure from Hakodate	Nov. 21, 2012
Start hydrographic research (OS12152)	23
Arrival at Abashiri and departure	24
Finish hydrographic research (OS12155)	26
Return to Abashiri	27
Departure from Abashiri	28
Return to Hakodate	Dec. 01
Total coverage 1327.2 miles	

2. Vessel Personnel

Crew: Captain	Associate Professor	Shogo Takagi
		And 28 persons

Research Staff:

Professor (Civil and Environmental Engineering, Kitami Institute of Technology)
Hakodate - Abashiri Satoshi Yamashita

Professor (Aqua Bioscience and Industry, Tokyo university of agriculture)
Abashiri - Abashiri Akihiro Shiimoto

Associate Professor
(Materials Science and Engineering, Kitami Institute of Technology)
Abashiri - Abashiri Hiotsugu Minami

Associate Professor
(Environmental and Energy Engineering, Kitami Institute of Technology)
Hakodate - Abashiri Akihiro Hachikubo

Instructor (Materials Science and Engineering, Kitami Institute of Technology)
Hakodate - Abashiri Hirotoshi Sakagami

Instructor (Civil and Environmental Engineering, Kitami Institute of Technology)
Abashiri - Abashiri Shintaro Yamasaki

Instructor (Civil Engineering, Hakodate National College of Technology)
Hakodate - Abashiri Satuki Kataoka

Project Researcher
(Earth and Planetary Science, Graduate School of Science, Tokyo University)
Abashiri - Abashiri Takeshi Ohi

Contract Associate Professor (Fisheries, Hokkaido University)
Hakodate - Hakodate Mitsuhiro Nakaya

Technical staff: (New Energy Resources Research Center, Kitami Institute of Technology)
Hakodate - Abashiri Kinji H

Teaching Assistant: 4 persons

Graduate Students: 10 persons

Under Graduate Students: 36 Persons

Total 59 persons

3. Items of Research

Hydrographic observations: (Observation of Temperature, Salinity, and Computed Dynamic Depth Anomaly)

Hydrographic work on deck and the data processing were made by Science officer, the deck officers, crews, research staff and cadets of the “*Oshoromaru*”. Temperature and salinity were measured by CTD (Seabird SBE-9Plus and SBE-19Plus).

Water and Plankton sampling were also carried out at almost hydrographic stations.

Fig.1, Table 1, 2

Fig 1. Oceanographic Stations

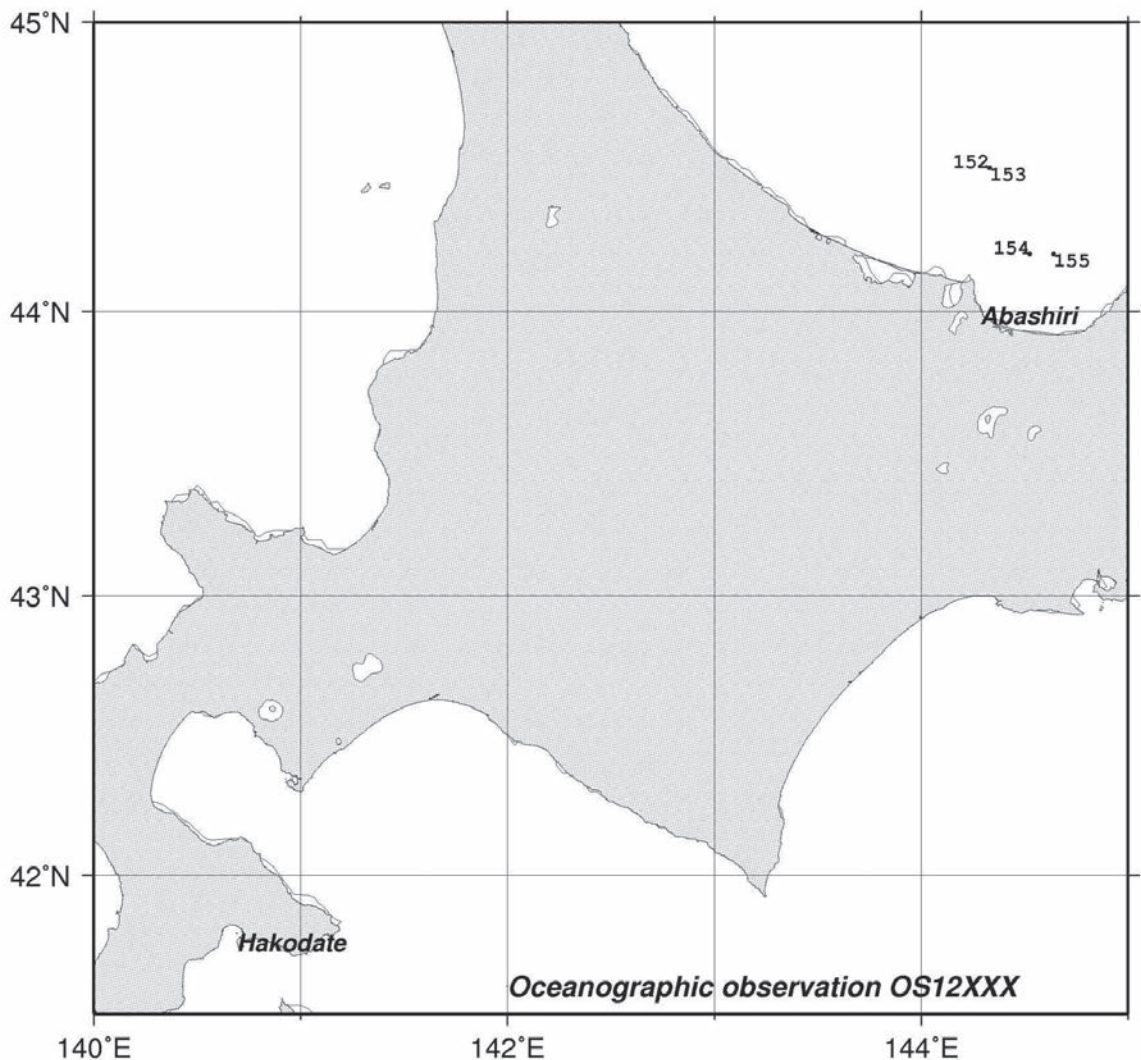


Table 1. List of Oceanographic station

Station	Lat.	Long.	Date (GMT)	Hour (GMT)	T.Z.	Depth	Col.	Tr.	SST	Wr.	Gear
OS12152	44-30.0N	144-19.8E	11/23	—	9	826	—	—	6.9	c	19Plus-4636
OS12154	44-09.73N	144-31.54E	11/24	23:50	9	520	—	—	5.8	bc	9Plus-0769
OS12155	44-11.40N	144-37.44E	11/26	0:32	9	683	—	—	5.4	o	9Plus-0769

Table 2. Oceanographic data

Station OS12152				Station OS12154				Station OS12155			
Latitude N44-30.0				Latitude 44 9.68				Latitude 44 11.42			
Longitude E144-19.8				Longitude 144 31.7				Longitude 144 37.51			
Depth(m) Depth: 826				Depth(m)				Depth(m)			
Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T
20	6.049	32.743	25.764	5	5.832	32.066	25.255	5	5.369	31.838	25.128
30	6.277	32.895	25.855	10	5.825	32.067	25.256	10	5.368	31.836	25.127
50	5.246	33.016	26.075	20	5.962	32.121	25.283	20	5.782	32.146	25.324
75	0.822	33.144	26.564	30	6.042	32.143	25.291	30	5.872	32.352	25.476
100	0.474	33.191	26.622	40	6.254	32.302	25.390	40	6.422	32.595	25.600
150	-0.686	33.188	26.673	50	6.511	32.459	25.482	50	6.402	32.768	25.739
200	-0.441	33.240	26.705	75	6.779	32.866	25.768	75	6.727	32.916	25.813
300	0.332	33.371	26.774	100	5.361	32.982	26.035	100	4.274	32.888	26.079
				125	5.536	33.433	26.371	125	1.406	33.068	26.466
				150	4.463	33.384	26.453	150	0.373	33.127	26.575
				175	4.128	33.360	26.469	175	0.662	33.231	26.643
				200	3.993	33.371	26.491	200	-0.352	33.187	26.659
								250	-0.379	33.207	26.676
								300	-0.030	33.274	26.714
								400	0.843	33.446	26.806
								500	1.709	33.632	26.897