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**THE "OSHORO MARU" CRUISE 270
TO WEST OF HOKKAODO**

IN JUNE 2014

1. Cruise Itinerary

Cruise 270

Departure from Hakodate and start hydrographic research (OS14091)	June	10	2014
Finish hydrographic research (OS14094)		14	
Return to Hakodate		15	

Total coverage 804.6 miles

2. Vessel Personnel

Crew:

Captain: Associate Professor Shogo Takagi
And 28 persons

Research Staff: Professor (Laboratory of Bioresources chemistry, Hokkaido University)
Ryuichi Sakai

Specially Appointed Associate Professor
(Laboratory of Bioresources chemistry, Hokkaido University)
Masaki Fujita

Researcher Fellow
(Marine Life Monitoring Grope, Field Science Center for Northern Biosphere)
Yuichi Tsuda

Technical Staff: 5 persons

Graduate Students: 11 persons

Undergraduate Students: 14 persons

Total 33 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 the Science officer, the deck officers, crews, research staff and cadets of the "Oshoro maru". Temperature and salinity were measured by CTD (Seabird SBE-9Plus) and XCTD.

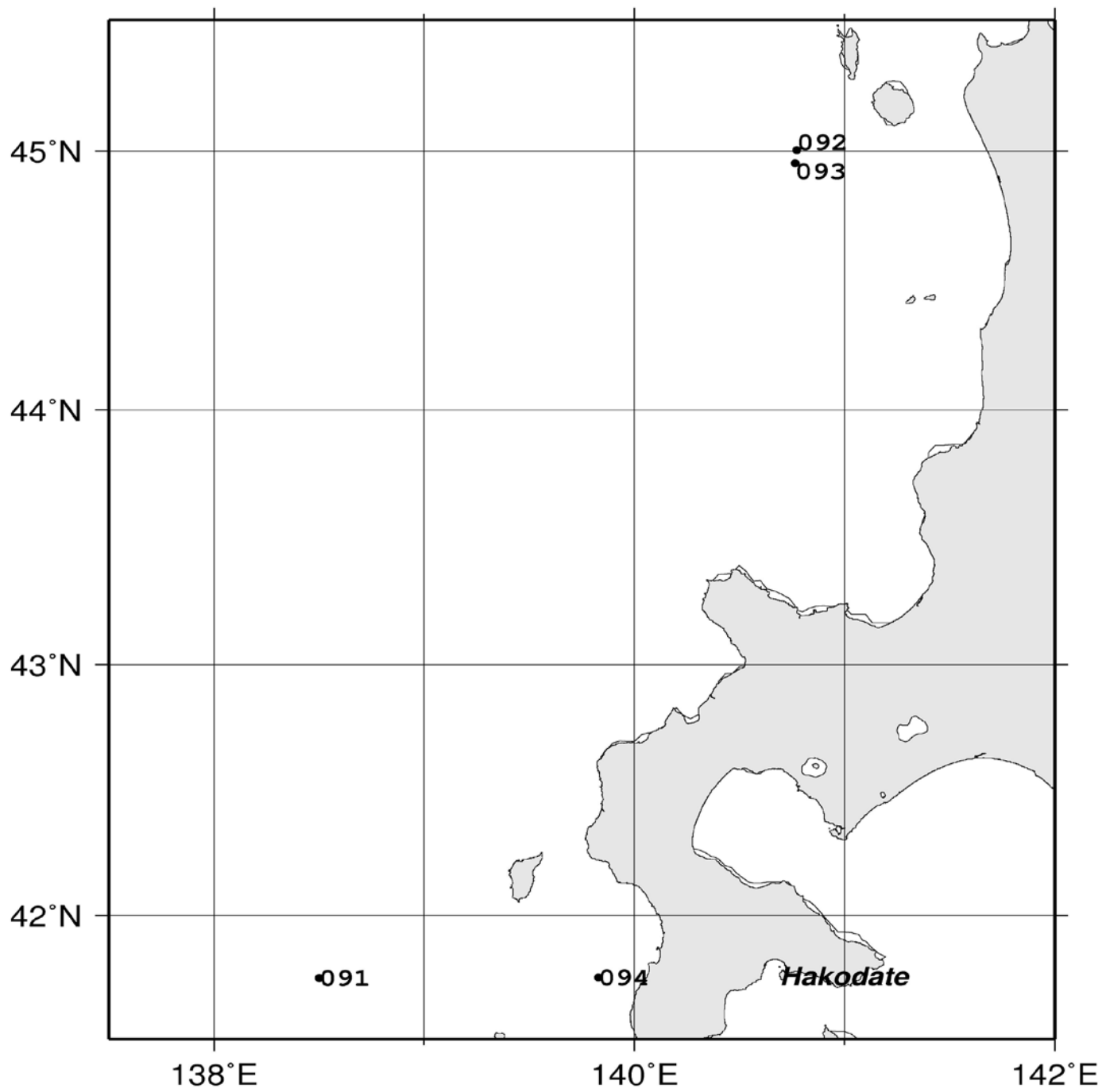


Fig.-10 Oceanographic stations

Table 1. List of Oceanographic station

Station	Lat.	Long.	Date (GMT)	Hour (GMT)	T.Z	Depth	Col.	Tr.	SST	Wr.	Gear
OS14091	41 44.87 N	138 30.17 E	6/10	14:17	9	3700	-	-	16.0	bc	9p-0769
OS14092	45 00.21 N	140 46.50 E	6/12	8:21	9	171	-	-	13.6	o	XCTD-2
OS14093	44 57.25 N	140 45.91 E	6/12	8:44	9	183	-	-	13.6	o	XCTD-1
OS14094	41 44.98 N	139 49.76 E	6/14	13:36	9	1415	-	-	17.5	bc	9p-0769

T.Z.: Time Difference between G.M.T and S.M.T.

Col.: Water color in Forel-Ule scale

Tr.: Transparency in meters with Secchi disc

SST: Surface temperature

Wr.: Weather in WMO Code 4501

Table 2. Oceanographic data

Station OS14091				Station OS14092				Station OS14093			
Latitude 41-44.87N				Latitude 45-00.21N				Latitude 44-57.25N			
Longitude 138-30.17E				Longitude 140-46.50E				Longitude 140-45.91E			
Depth(m) 3700				Depth(m) 171				Depth(m) 183			
Press.	Temp.	Sal.	SIG-T	Depth	Temp.	Sal.	SIG-T	Depth	Temp.	Sal.	SIG-T
5	15.298	33.980	25.121	5	12.735	33.793	-	5	12.722	33.787	-
10	14.756	33.981	25.239	10	12.729	33.800	-	10	12.722	33.801	-
20	9.864	33.962	26.164	20	11.722	33.792	-	20	12.703	33.812	-
30	8.763	34.005	26.376	30	9.924	33.916	-	30	10.517	33.940	-
40	7.532	34.055	26.600	40	8.025	33.870	-	40	9.384	33.952	-
50	6.643	34.051	26.720	50	6.892	33.929	-	50	7.734	33.951	-
75	4.736	34.014	26.923	75	5.247	33.941	-	75	5.703	33.954	-
100	3.468	34.013	27.053	100	4.099	34.003	-	100	4.116	34.009	-
125	2.590	34.015	27.135	125	3.639	34.012	-	125	3.737	34.011	-
150	1.935	34.014	27.187	150	3.097	34.015	-	150	3.105	34.033	-
175	1.474	34.015	27.222					175	2.792	34.044	-
200	1.280	34.014	27.234								
250	1.046	34.022	27.256								
300	0.942	34.039	27.276								
400	0.800	34.048	27.293								
500	0.709	34.056	27.304								
600	0.618	34.060	27.313								
700	0.524	34.060	27.319								

Station OS14094			
Latitude 41-44.98N			
Longitude 139-49.76E			
Depth(m) 1415			
Press.	Temp.	Sal.	SIG-T
5	17.264	33.945	24.642
10	17.274	33.946	24.640
20	16.062	34.203	25.121
30	13.977	34.254	25.615
40	12.148	34.118	25.876
50	10.925	34.248	26.204
75	9.154	34.142	26.421
100	7.892	34.106	26.587
125	6.164	34.052	26.783
150	5.301	34.036	26.876
175	3.886	34.009	27.009
200	2.629	34.019	27.135
250	1.667	34.025	27.216
300	1.254	34.031	27.249
400	0.916	34.043	27.282
500	0.751	34.052	27.299
600	0.627	34.057	27.310
700	0.537	34.058	27.316