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3.

THE "OSHORU MARU" CRUISE 241
TO THE JAPAN SEA

IN APRIL 2012

1. Cruise Itinerary

Cruise 241

Departure from Hakodate	Apr. 17, 2012
Conduct hydrographic research (OS12009)	18
Arrival at Tsuruga	20
Departure from Tsuruga	21
Return to Tsuruga	21
Departure from Tsuruga	22
Return to Hakodate	24
Total coverage 1003.5 miles	

2. Vessel Personnel

Crew:	Captain:	Associate Professor	Shogo Takagi
			And 28 persons
Research Staff:	Professor	(Laboratory of Marine Environment engineering, Fukui Prefectural University)	Masabumi Seto
	Professor	(Laboratory of Marine Environment engineering, Fukui Prefectural University)	Shinya Otake
	Associate Professor	(Laboratory of Microbial Ecology, Fukui Prefectural University)	Ryuji Kondo
	Instructor	(Laboratory of Microbial Ecology, Fukui Prefectural University)	Yoshitake Takao
	Graduate Students:		1 person
			Total 38 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 and crews of the “Oshoro maru”. Temperature and salinity were measured by CTD (Seabird SBE-9Plus). Water samplings by Niskin bottles and Plankton sampling were carried out at hydrographic stations.

Fig. 1, Table 1, 2

Table 1. List of Oceanographic station

Station	Lat.	Long.	Date (GMT)	Hour (GMT)	T.Z	Depth	Col.	Tr.	SST	Wr.	Gear
OS12009	40-39.36N	138-20.18E	2012/4/17	21:14	9	3359	-	-	7.7	bc	9Plus-0769

Fig 1. Oceanographic stations

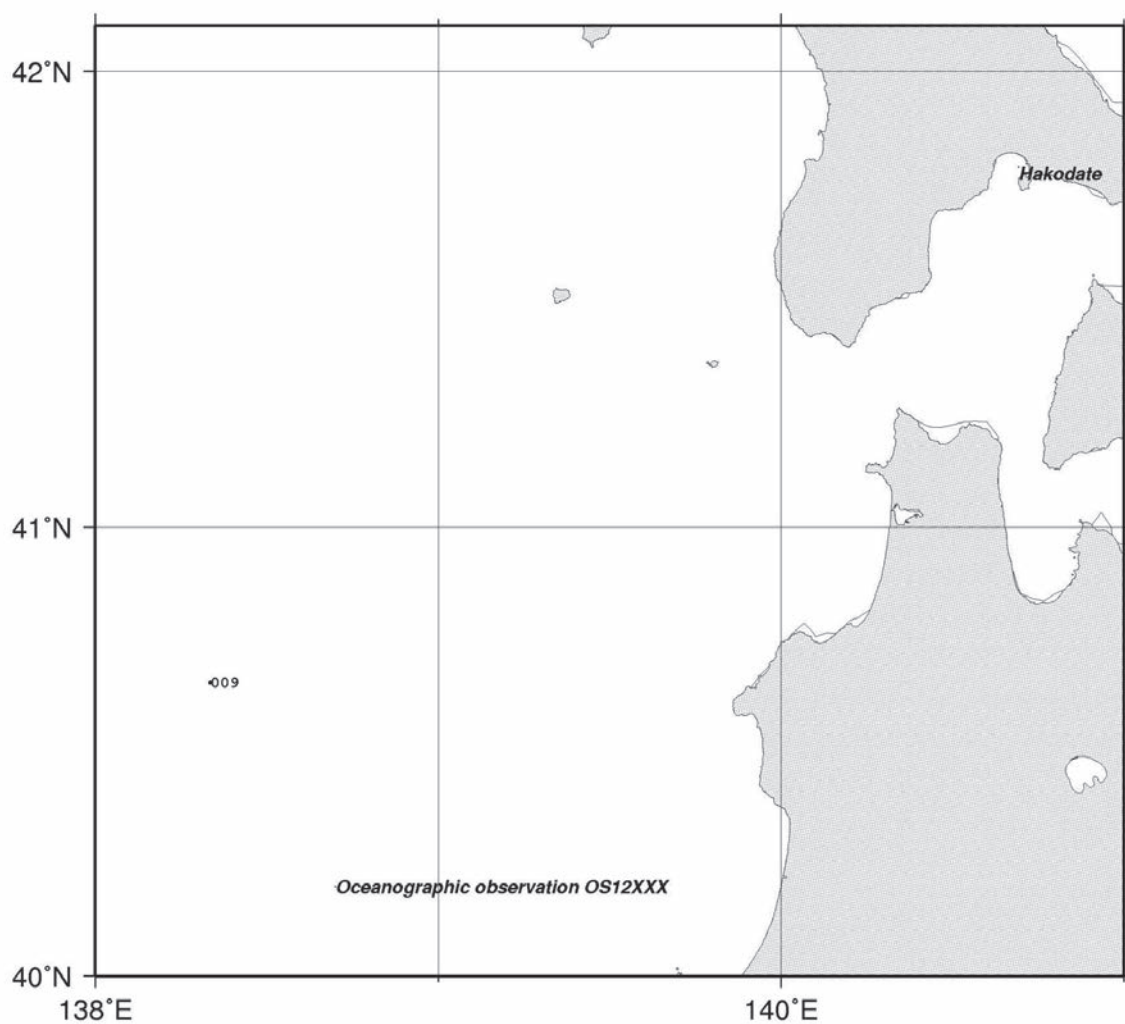


Table 2. Oceanographic data

	Station	OS12009		
	Latitude	40-39.36N		
	Longitude	138-20.18E		
	Depth(m)	depth:3359		
Press.	Temp.	Sal.	SIG-T	
5	7.843	34.164	26.641	
10	7.844	34.164	26.640	
20	7.424	34.134	26.678	
30	6.394	34.118	26.805	
40	5.639	34.088	26.877	
50	4.564	34.071	26.988	
75	3.722	34.062	27.068	
100	2.733	34.049	27.149	
125	1.928	34.049	27.215	
150	1.564	34.043	27.237	
175	1.404	34.046	27.251	
200	1.361	34.047	27.255	
250	1.181	34.051	27.271	
300	1.125	34.057	27.279	
400	0.865	34.065	27.303	
500	0.679	34.069	27.317	
600	0.584	34.069	27.323	
700	0.500	34.069	27.328	
800	0.441	34.069	27.330	
900	0.374	34.068	27.334	
1000	0.334	34.067	27.335	
1200	0.275	34.066	27.338	
1500	0.233	34.066	27.340	
2000	0.219	34.066	27.341	
2500	0.234	34.066	27.340	
3000	0.275	34.067	27.338	