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3.

THE "OSHORO 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

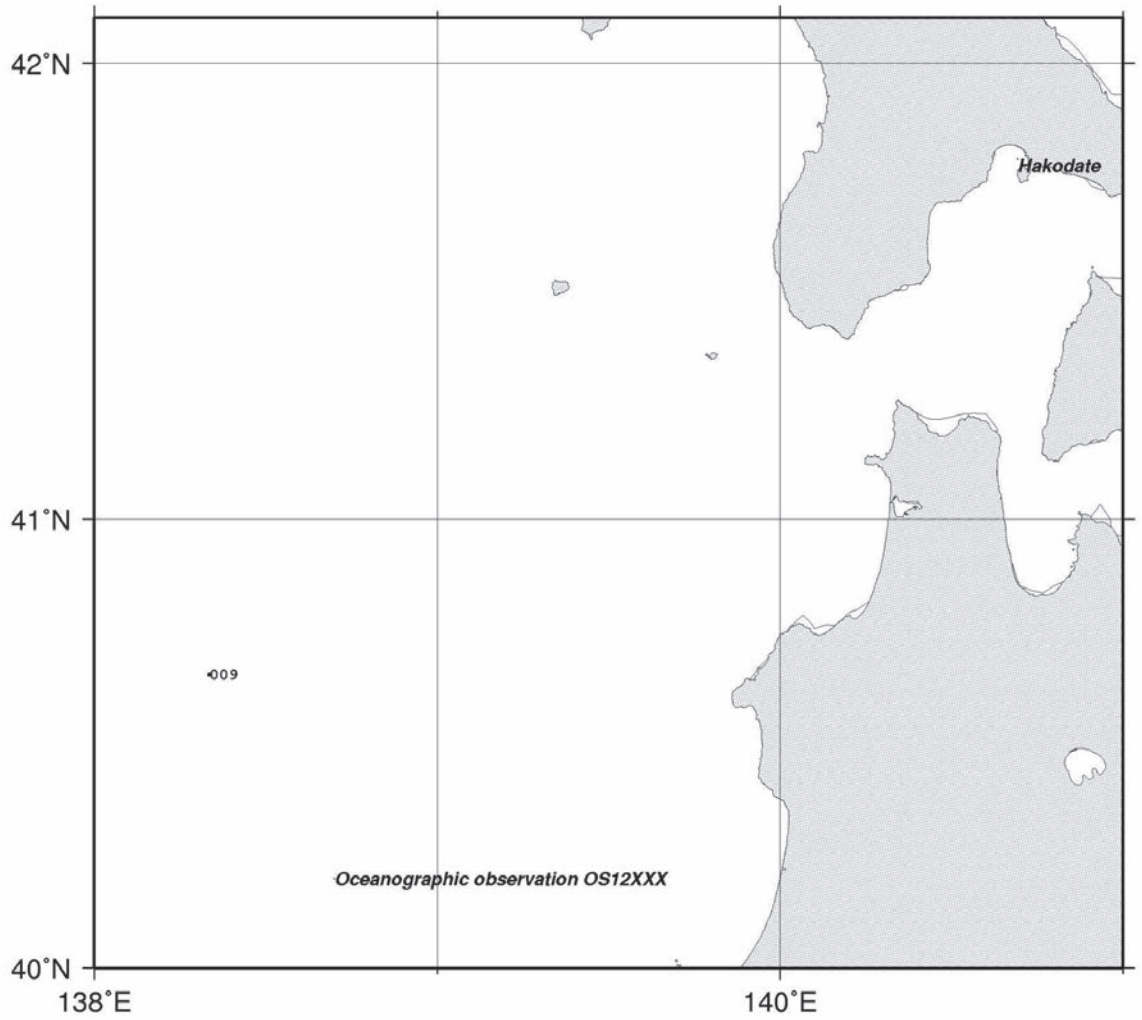

Table 2. Oceanographic data

	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