



Title	3 THE "OSHO RO MARU" CRUISE 268 TO IWATE OFF IN APRIL 2014
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**THE "OSHORO MARU" CRUISE 268
TO IWATE OFF**

IN APRIL 2014

1. Cruise Itinerary

Cruise 268

Departure from Hakodate	April 20	2014
Arrival at Kamaishi	21	
Departure from Kamaishi and start hydrographic research (OS14069)	22	
Finish hydrographic research (OS14075)	24	
Arrival at and departure from Miyako, and start hydrographic research (OS14076, 77)	25	
Return to Hakodate	26	
		Total coverage 571.2 miles

2. Vessel Personnel

Crew:	Captain:	Associate Professor	Shogo Takagi And 28 persons
Supervising teacher:		High school teacher (Iwate prefectural Miyako Fisherise High School)	Takuya Shiota
		High school teacher (Iwate prefectural Miyako Fisherise High School)	Yukimasa Hatakekawa
		High school teacher (Iwate prefectural Takada High School)	Katumi Yoshida
	Teaching Assistant:		2 persons
	Senior High School Students:		
		(Iwate prefectural Miyako Fisherise High School)	30 persons
		(Iwate prefectural Takada High School)	7 persons
			Total 42 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.

Table 1. List of Oceanographic station

Station	Lat.	Long.	Date (GMT)	Hour (GMT)	T.Z	Depth	Col.	Tr.	SST	Wr.	Gear
OS14069	39 30.07 N	142 05.80 E	Apr 22 2014	9:09	9	145	-	-	5.3	bc	9p-0769
OS14070	39 29.83 N	142 11.18 E	Apr 22 2014	10:06	9	238	-	-	3.6	bc	9p-0769
OS14071	38 58.23 N	142 07.30 E	Apr 23 2014	4:04	9	376	-	5	5.4	bc	9p-0769
OS14072	38 41.89 N	142 04.98 E	Apr 24 2014	0:01	9	440	-	4	5.7	b	9p-0769
OS14073	38 50.23 N	142 05.92 E	Apr 24 2014	6:04	9	390	-	5	4.4	b	9p-0769
OS14074	39 00.16 N	142 00.03 E	Apr 24 2014	9:08	9	199	-	-	5.5	bc	9p-0769
OS14075	38 59.86 N	141 54.89 E	Apr 24 2014	11:05	9	139	-	-	6.3	bc	9p-0769
OS14076	39 59.89 N	142 06.29 E	Apr 25 2014	3:06	9	127	-	-	7.1	b	9p-0769
OS14077	39 59.94 N	142 15.12 E	Apr 25 2014	4:12	9	238	-	-	6.8	b	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

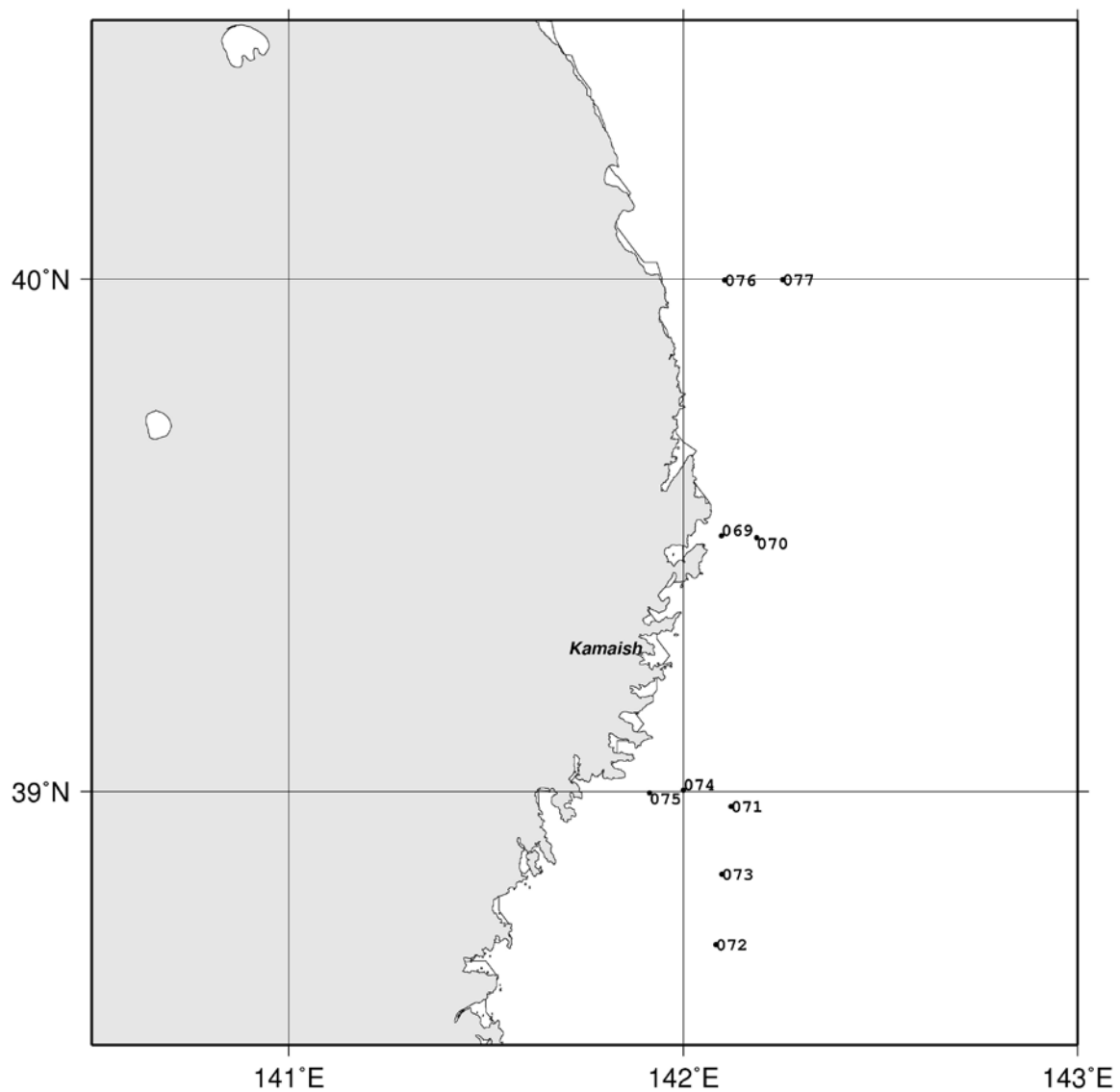


Fig.-1 Oceanographic stations

Table 2. Oceanographic data

Station OS14069				Station OS14070				Station OS14071			
Latitude 39-30.07N				Latitude 39-29.83N				Latitude 38-58.23N			
Longitude 142-5.8E				Longitude 142-11.18E				Longitude 142-7.3E			
Depth(m) 145				Depth(m) 238				Depth(m) 376			
Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T
5	4.231	32.605	25.858	5	2.551	32.433	25.874	5	3.692	32.569	25.883
10	3.762	32.607	25.906	10	2.126	32.433	25.906	10	3.709	32.571	25.882
20	3.233	32.628	25.971	20	1.688	32.456	25.956	20	3.135	32.602	25.959
30	2.957	32.720	26.069	30	1.460	32.498	26.005	30	2.929	32.684	26.043
40	3.793	32.930	26.160	40	1.472	32.535	26.034	40	1.412	32.623	26.108
50	3.983	32.981	26.182	50	1.524	32.549	26.041	50	2.310	32.872	26.244
75	4.394	33.178	26.297	75	2.433	32.764	26.147	75	4.901	33.329	26.361
100	4.691	33.323	26.380	100	5.888	33.552	26.422	100	4.532	33.332	26.405
125	5.120	33.440	26.425	125	6.515	33.702	26.461	125	4.685	33.364	26.412
				150	6.485	33.720	26.479	150	4.371	33.409	26.483
				175	6.482	33.720	26.480	175	4.389	33.415	26.485
				200	6.527	33.728	26.480	200	4.781	33.493	26.505

Station OS14072				Station OS14073				Station OS14074			
Latitude 38-41.89N				Latitude 38-50.23N				Latitude 39-0.16N			
Longitude 142-4.98E				Longitude 142-5.92E				Longitude 142-0.03E			
Depth(m) 440				Depth(m) 390				Depth(m) 199			
Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T
5	5.101	32.556	25.727	5	2.480	32.375	25.833	5	3.289	32.499	25.864
10	4.416	32.595	25.831	10	2.015	32.370	25.864	10	2.461	32.403	25.856
20	3.727	32.751	26.024	20	0.887	32.386	25.950	20	1.173	32.510	26.033
30	3.423	32.841	26.124	30	0.684	32.413	25.983	30	1.014	32.524	26.054
40	3.554	32.980	26.222	40	0.562	32.483	26.047	40	0.872	32.571	26.100
50	3.450	33.024	26.267	50	0.684	32.578	26.116	50	0.941	32.578	26.101
75	3.818	33.218	26.386	75	0.703	32.782	26.279	75	0.975	32.673	26.176
100	4.757	33.427	26.456	100	5.935	33.599	26.454	100	4.087	33.257	26.390
125	5.086	33.497	26.474	125	6.386	33.693	26.471	125	4.853	33.386	26.413
150	5.350	33.562	26.495	150	5.690	33.591	26.478	150	4.858	33.440	26.454
175	5.419	33.591	26.510	175	5.460	33.574	26.491	175	5.629	33.582	26.477
200	5.636	33.651	26.531	200	5.309	33.556	26.495				

Station OS14075				Station OS14076				Station OS14077			
Latitude 38-59.86N				Latitude 39-59.89N				Latitude 39-59.93N			
Longitude 141-54.89E				Longitude 142-6.3E				Longitude 142-15.11E			
Depth(m) 139				Depth(m) 127				Depth(m) 238			
Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T
5	4.693	32.668	25.860	5	5.482	32.687	25.787	5	5.920	32.410	25.516
10	4.725	32.665	25.854	10	4.666	32.671	25.866	10	5.783	32.456	25.569
20	2.156	32.600	26.037	20	3.174	32.742	26.068	20	4.901	32.802	25.944
30	2.381	32.657	26.066	30	3.174	32.884	26.181	30	4.956	33.018	26.109
40	3.444	32.901	26.170	40	3.534	33.077	26.302	40	5.246	33.168	26.195
50	3.876	33.010	26.216	50	4.862	33.294	26.338	50	6.191	33.472	26.322
75	4.077	33.118	26.281	75	6.644	33.610	26.372	75	6.722	33.615	26.365
100	4.016	33.159	26.320	100	7.248	33.743	26.395	100	7.165	33.729	26.395
125	3.919	33.160	26.331					125	6.793	33.686	26.412
								150	6.637	33.692	26.437
								175	5.855	33.591	26.457
								200	4.530	33.405	26.463