



HOKKAIDO UNIVERSITY

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THE “OSHORU MARU” CRUISE 196
TO THE OYASHIO REGION

IN DECEMBER 2008

1. Cruise Itinerary

Cruise 196

Departure from Hakodate	Dec. 10	, 2008
Hydrographic research (OS08223)	11	
Return to Hakodate	15	

Total coverage 486.7 miles 6 days at sea

2. Vessel Personnel

Captain:	Professor	Toshimi Meguro
Crew :	First Officer	Associated Professor Shogo Takagi
	Second Officer	Instructor Yoshihiko Kamei
	Jr. Second Officer	Instructor Keiichiro Sakaoka
	Chief Engineer	Instructor Junichi Kimura
	And 24 men	

	Cruise 196
Research Staff:	Associate Professor (Laboratory of Marine Bioresources Ecology) Atsushi Yamaguchi
	Scientist (Advanced Industrial Science and Tecnology) Yasuhiro Takenaka
Graduate Students:	2 Persons
Under Graduate Students:	18 Persons
	Total 39 persons

3. Items of Research

Hydrographic observations: Fig. 2 Table 1, 2

The life cycle of zooplankton in the Oyashio region

4. Data on Temperature, Salinity, and Computed Dynamic Depth Anomaly

Hydrographic work on deck and the data processing were made by the deck officers, crews, research staff and cadets of the “Oshoro Maru”.

Temperature and salinity were measured by CTD (Seabird SBE9Plus and SBE-19).

Dynamic computations were made using a desk-top computer aboard the “Oshoro Maru”.

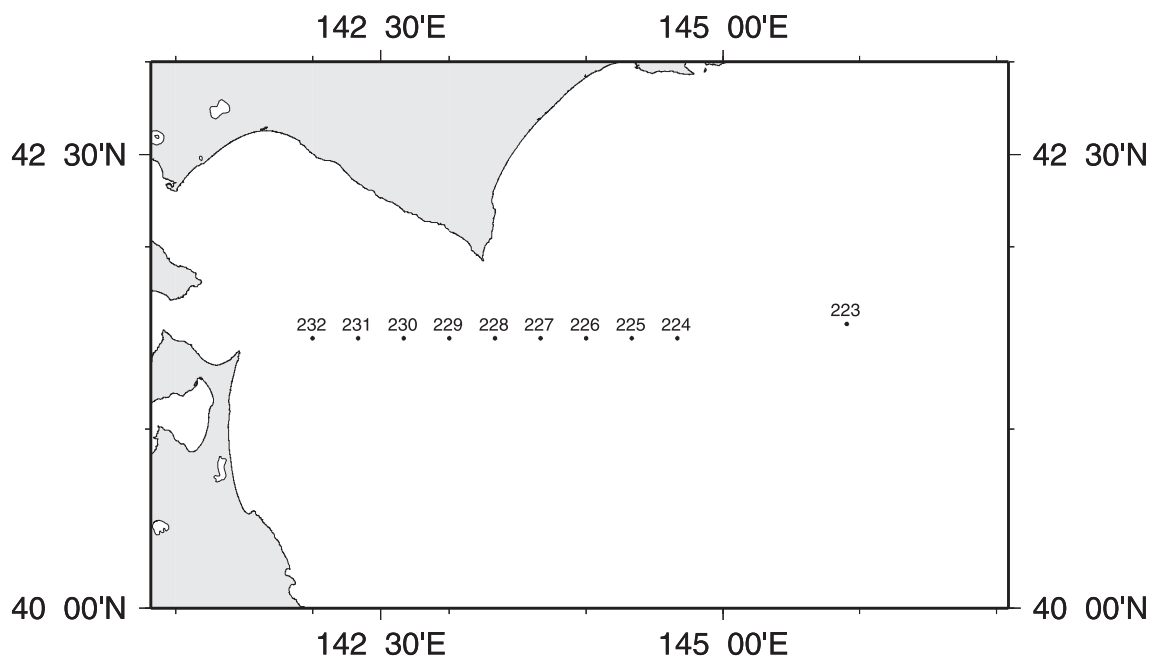


Figure 1: Oceanographic stations

Table 1: List of Oceanographic Stations

Station	Lat.(*)	Long.(*)	Date	S.M.T	T.Z.	Depth	COL.	TR.	S.S.T.	WR.	Remark
OS08223	41-34.7N	145-54.3E	12/16	1430	9	6918	-	-	10.3	c	
OS08224	41-30.0N	144-40.0E	12/18	0910	9	4300	-	-	-	-	T-7
OS08225	41-30.0N	144-20.0E	12/18	1045	9	2735	-	-	-	-	XCTD1
OS08226	41-30.0N	144-00.0E	12/18	1205	9	1755	-	-	-	-	T-7
OS08227	41-30.0N	143-40.0E	12/18	1318	9	1490	-	-	-	-	T-7
OS08228	41-30.0N	143-20.0E	12/18	1432	9	1330	-	-	-	-	XCTD1
OS08229	41-30.0N	143-00.0E	12/18	1548	9	1152	-	-	-	-	T-7
OS08230	41-30.0N	142-40.0E	12/18	1703	9	1204	-	-	-	-	T-7
OS08231	41-30.0N	142-20.0E	12/18	1830	9	1234	-	-	-	-	XCTD1
OS08232	41-30.0N	142-00.0E	12/18	2001	9	1094	-	-	-	-	T-7

(*):Fixed position by Global Positioning system

Table 2: Oceanographic data

Station OS08223			
Longitude 41-34.7N			
Latitude 145-54.3E			
Depth(m) 6918			
Press.	Temp.	Sal.	SIG-T
5	10.499	34.087	26.154
10	10.500	34.087	26.153
20	10.479	34.088	26.158
30	10.468	34.089	26.161
40	10.448	34.092	26.166
50	10.441	34.096	26.170
75	10.431	34.106	26.180
100	10.226	34.250	26.328
125	10.181	34.248	26.334
150	10.120	34.240	26.339
200	9.672	34.174	26.362
250	8.401	34.007	26.434
300	6.343	33.778	26.544
400	3.251	33.534	26.692
500	2.994	33.652	26.810
600	3.180	33.812	26.921
700	3.601	34.020	27.046
800	3.428	34.136	27.155
900	3.452	34.216	27.217
1000	3.123	34.262	27.285
1200	2.813	34.368	27.397
1500	2.513	34.485	27.517
2000	2.090	34.574	27.623
2500	1.802	34.626	27.688
3000	1.635	34.655	27.723

Station OS08224			
Longitude 41-30.0N			
Latitude 144-40.0E			
Depth(m) 4300			
Press.	Temp.	Sal.	SIG-T
5	10.220	-	-
10	10.281	-	-
20	10.260	-	-
30	10.270	-	-
40	10.192	-	-
50	10.032	-	-
75	7.758	-	-
100	7.303	-	-
125	6.010	-	-
150	3.812	-	-
200	4.360	-	-
250	4.513	-	-
300	3.483	-	-
400	3.280	-	-
500	3.633	-	-
600	3.460	-	-
700	3.280	-	-

Station OS08225			
Longitude 41-30.0N			
Latitude 144-20.0E			
Depth(m) 2735			
Press.	Temp.	Sal.	SIG-T
5	8.970	33.544	25.983
10	8.789	33.616	26.068
20	7.817	33.506	26.128
30	5.947	33.299	26.215
40	5.281	33.245	26.252
50	4.841	33.210	26.274
75	4.640	33.202	26.290
100	3.709	33.301	26.463
125	2.296	33.314	26.598
150	2.046	33.352	26.648
200	2.242	33.484	26.738
250	2.543	33.623	26.825
300	2.368	33.674	26.880
400	2.564	33.805	26.969
500	2.874	33.952	27.060
600	3.086	34.116	27.172
700	3.347	34.305	27.298
800	3.176	34.322	27.328
900	2.995	34.393	27.401
1000	2.844	34.488	27.491

Station OS08226			
Longitude 41-30.0N			
Latitude 144-00.0E			
Depth(m) 1755			
Press.	Temp.	Sal.	SIG-T
5	5.588	-	-
10	5.568	-	-
20	5.483	-	-
30	5.467	-	-
40	5.446	-	-
50	5.450	-	-
75	4.200	-	-
100	3.363	-	-
125	2.660	-	-
150	2.496	-	-
200	2.269	-	-
250	2.151	-	-
300	2.300	-	-
400	2.834	-	-
500	3.081	-	-
600	3.010	-	-
700	3.104	-	-

Station OS08227			
Longitude 41-30.0N			
Latitude 143-40.0E			
Depth(m) 1490			
Press.	Temp.	Sal.	SIG-T
5	5.620	-	-
10	5.531	-	-
20	5.348	-	-
30	5.262	-	-
40	5.102	-	-
50	5.138	-	-
75	3.901	-	-
100	3.354	-	-
125	3.080	-	-
150	2.692	-	-
200	2.571	-	-
250	2.169	-	-
300	2.253	-	-
400	2.654	-	-
500	2.880	-	-
600	3.159	-	-
700	3.150	-	-

Station OS08228			
Longitude 41-30.0N			
Latitude 143-20.0E			
Depth(m) 1330			
Press.	Temp.	Sal.	SIG-T
5	5.483	33.229	26.216
10	5.405	33.242	26.235
20	5.287	33.254	26.259
30	5.287	33.280	26.279
40	5.258	33.286	26.287
50	4.992	33.269	26.304
75	4.765	33.299	26.353
100	2.718	33.341	26.585
125	2.268	33.393	26.664
150	2.248	33.432	26.696
200	2.156	33.486	26.747
250	2.023	33.524	26.787
300	2.100	33.594	26.838
400	2.675	33.751	26.916
500	3.049	33.880	26.987
600	3.096	33.995	27.074
700	3.200	34.130	27.172
800	3.150	34.247	27.270
900	3.059	34.326	27.342
1000	2.888	34.384	27.404

Station		OS08229	
Longitude		41-30.0N	
Latitude		143-00.0E	
Depth(m)		1152	
Press.	Temp.	Sal.	SIG-T
5	6.341	-	-
10	6.174	-	-
20	6.004	-	-
30	5.943	-	-
40	5.963	-	-
50	5.888	-	-
75	5.669	-	-
100	5.050	-	-
125	4.430	-	-
150	3.828	-	-
200	2.739	-	-
250	2.238	-	-
300	2.300	-	-
400	2.711	-	-
500	2.920	-	-
600	3.172	-	-
700	3.310	-	-

Station		OS08230	
Longitude		41-30.0N	
Latitude		142-40.0E	
Depth(m)		1204	
Press.	Temp.	Sal.	SIG-T
5	12.041	-	-
10	11.901	-	-
20	11.727	-	-
30	11.368	-	-
40	11.286	-	-
50	11.178	-	-
75	10.690	-	-
100	9.996	-	-
125	9.480	-	-
150	6.442	-	-
200	4.569	-	-
250	3.081	-	-
300	2.713	-	-
400	2.923	-	-
500	3.051	-	-
600	3.239	-	-
700	3.274	-	-

Station		OS08231	
Longitude		41-30.0N	
Latitude		142-20.0E	
Depth(m)		1234	
Press.	Temp.	Sal.	SIG-T
5	12.875	33.785	25.477
10	12.876	33.818	25.502
20	12.134	33.807	25.638
30	10.639	33.791	25.898
40	10.709	33.980	26.033
50	10.573	34.037	26.102
75	10.573	34.061	26.120
100	9.961	33.974	26.158
125	9.163	33.909	26.238
150	5.465	33.464	26.404
200	4.904	33.601	26.577
250	3.489	33.563	26.693
300	2.832	33.593	26.777
400	2.876	33.776	26.919
500	3.085	33.945	27.035
600	3.279	34.118	27.155
700	3.276	34.210	27.229
800	3.125	34.297	27.313
900	2.974	34.386	27.397
1000	2.782	34.425	27.446

Station		OS08232	
Longitude		41-30.0N	
Latitude		142-00.0E	
Depth(m)		1094	
Press.	Temp.	Sal.	SIG-T
5	13.390	-	-
10	13.410	-	-
20	13.382	-	-
30	13.228	-	-
40	12.675	-	-
50	12.269	-	-
75	11.109	-	-
100	10.687	-	-
125	9.650	-	-
150	8.686	-	-
200	5.587	-	-
250	3.023	-	-
300	2.610	-	-
400	2.869	-	-
500	3.227	-	-
600	3.323	-	-
700	3.310	-	-

