HOKKAIDO UNIVERSITY

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THE “OSHORO MARU” CRUISE 187
TO THE OFF HIYAMA AREA

IN FEBRARY - MARCH 2008

1. Cruise Itinerary

Cruise 187			
Departure from Hakodate	Feb.	29	, 2008
Start hydrographic research (OS08021)	Mar.	1	
Finish hydrographic research (OS08030)		2	
Return to Hakodate		3	
Total coverage 250.9 miles			

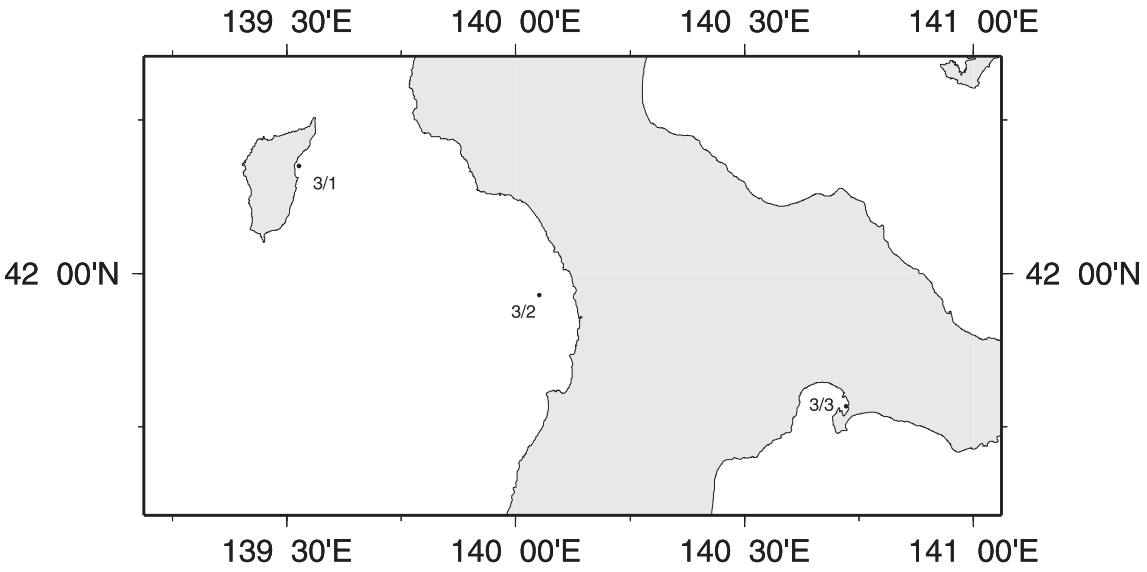

Figure 1: Noon position

2. Vessel Personnel

Captain:		Professor	Toshimi Meguro
Crew :	Chief Officer	Associated Professor	Yoshiyuki Kajiwara
	First Officer	Associated Professor	Shogo Takagi
	Second Officer	Instructor	Yoshihiko Kamei
	Jr. Second Officer	Instructor	Keiichiro Sakaoka
	Chief Engineer	Instructor	Junichi Kimura
	And 25 men		

Cruise 187

Research Staff:	Associate Professor	(Laboratory of Marine Bioresource Science) Toshikuni Nakatani
Graduate Students:	1 person	
	Total 32 persons	

3. Items of Research

Hydrographic observations: Fig. 2 Table 1, 2

Studies on relation between eggs and larvae distribution and environment

Early life of walleye Pollock off Hiyama of northern Japan Sea

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”.

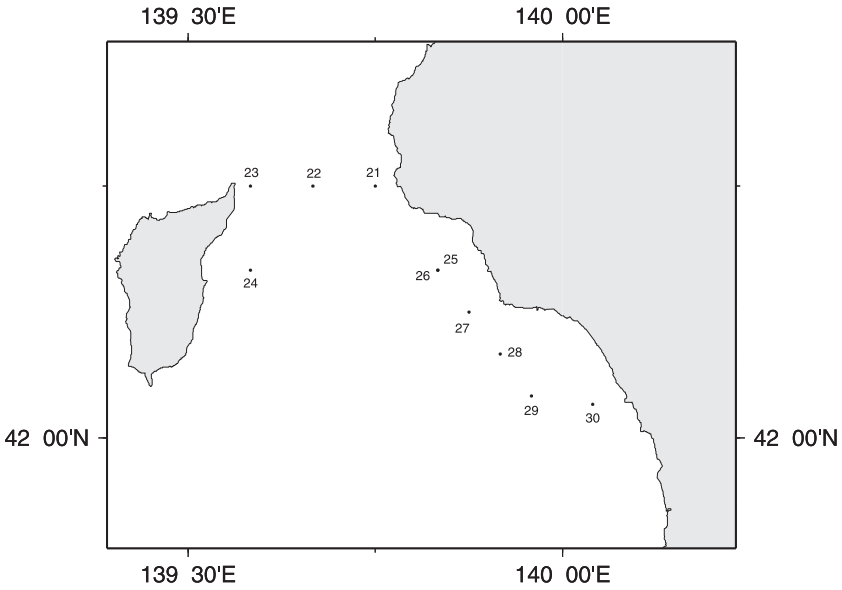

Figure 2: Oceanographic stations

Table 1: List of Oceanographic Stations

Station	Lat.(*)	Long.(*)	Date	S.M.T	T.Z.	Depth	COL.	TR.	S.S.T.	WR.	Remark
OS08021	42-15.0N	139-45.0E	3/1	0630	9	95	-	-	7.4	o	SBE-19plus
OS08022	42-15.0N	139-40.0E	3/1	0715	9	435	-	-	6.2	c	SBE-19plus
OS08023	42-15.0N	139-35.0E	3/1	0825	9	562	-	-	6.1	s	SBE-19plus
OS08024	42-10.0N	139-35.0E	3/1	0920	9	512	-	-	6	s	SBE-19plus
OS08025	42-10.0N	139-50.0E	3/1	1010	9	691	-	-	6.2	s	SBE-19plus
OS08026	42-10.0N	139-50.0E	3/2	0720	9	492	-	-	6.4	o	SBE-19plus
OS08027	42-07.5N	139-52.5E	3/2	0805	9	295	-	-	5.5	o	SBE-19plus
OS08028	42-05.0N	139-55.0E	3/2	0925	9	123	-	-	6	o	SBE-19plus
OS08029	42-02.5N	139-57.5E	3/2	1005	9	370	-	-	6.2	o	SBE-19plus
OS08030	42-02.0N	140-02.4E	3/2	1055	9	200	-	-	5.8	o	SBE-19plus

(*):Fixed position by Global Positioning system

Table 2: Oceanographic data

Station OS08021
Longitude 42-15.0N
Latitude 139-45.0E
Depth(m) 95

Press.	Temp.	Sal.	SIG-T
5	6.091	34.147	26.867
10	6.087	34.147	26.868
20	6.084	34.147	26.868
30	6.031	34.145	26.873
40	5.961	34.144	26.881
50	5.916	34.144	26.887
75	5.355	34.132	26.946

Station OS08022
Longitude 42-15.0N
Latitude 139-40.0E
Depth(m) 435

Press.	Temp.	Sal.	SIG-T
5	6.150	34.149	26.861
10	6.154	34.150	26.861
20	6.072	34.145	26.868
30	6.058	34.146	26.871
40	6.032	34.145	26.874
50	6.017	34.145	26.875
75	5.754	34.135	26.900
100	4.678	34.102	26.999
125	2.920	34.055	27.138
150	2.571	34.060	27.172

Station OS08023
Longitude 42-15.0N
Latitude 139-35.0E
Depth(m) 562

Press.	Temp.	Sal.	SIG-T
5	6.280	34.146	26.842
10	6.287	34.147	26.842
20	6.296	34.147	26.841
30	6.191	34.148	26.855
40	6.171	34.148	26.858
50	6.141	34.147	26.861
75	4.784	34.103	26.989
100	3.808	34.084	27.077
125	3.247	34.071	27.121

Station OS08024
Longitude 42-10.0N
Latitude 139-35.0E
Depth(m) 512

Press.	Temp.	Sal.	SIG-T
5	6.406	34.147	26.827
10	6.404	34.147	26.827
20	6.416	34.150	26.827
30	6.392	34.150	26.831
40	6.163	34.144	26.856
50	5.875	34.135	26.885
75	4.321	34.077	27.018
100	3.167	34.060	27.119
125	2.680	34.061	27.164
150	2.195	34.064	27.206

Station OS08025
Longitude 42-10.0N
Latitude 139-50.0E
Depth(m) 691

Press.	Temp.	Sal.	SIG-T
5	6.635	34.051	26.721
10	6.683	34.149	26.792
20	6.696	34.148	26.789
30	6.696	34.148	26.789
40	6.698	34.148	26.789
50	6.663	34.147	26.792
75	4.840	34.121	26.997
100	3.913	34.082	27.065
125	2.902	34.083	27.162
150	2.246	34.072	27.209

Station OS08026
Longitude 42-10.0N
Latitude 139-50.0E
Depth(m) 492

Press.	Temp.	Sal.	SIG-T
5	6.062	34.144	26.869
10	6.047	34.144	26.870
20	6.040	34.143	26.871
30	5.999	34.141	26.874
40	5.933	34.139	26.881
50	5.931	34.139	26.881

Station OS08027
Longitude 42-07.5N
Latitude 139-52.5E
Depth(m) 295

Press.	Temp.	Sal.	SIG-T
5	5.720	34.129	26.900
10	5.734	34.130	26.898
20	5.697	34.128	26.902
30	5.684	34.128	26.903
40	5.666	34.129	26.906
50	5.670	34.130	26.907
75	5.527	34.127	26.921
100	5.372	34.123	26.937
125	5.421	34.125	26.933
150	5.484	34.126	26.926

Station OS08028
Longitude 42-05.0N
Latitude 139-55.0E
Depth(m) 123

Press.	Temp.	Sal.	SIG-T
5	6.217	34.146	26.851
10	6.227	34.146	26.849
20	6.232	34.146	26.849
30	6.220	34.145	26.850
40	6.165	34.144	26.855
50	6.025	34.139	26.870
75	5.647	34.130	26.909
100	4.986	34.115	26.975

Station OS08029
Longitude 42-02.5N
Latitude 139-57.5E
Depth(m) 370

Press.	Temp.	Sal.	SIG-T
5	6.331	34.020	26.736
10	6.416	34.145	26.824
20	6.397	34.144	26.826
30	6.395	34.145	26.826
40	6.359	34.143	26.830
50	6.278	34.141	26.839
75	6.080	34.133	26.858
100	5.071	34.103	26.956
125	4.565	34.106	27.015
150	4.285	34.102	27.043

Station		OS08030	
Longitude		42-02.0N	
Latitude		140-02.4E	
Depth(m)		200	
Press.	Temp.	Sal.	SIG-T
5	6.187	34.079	26.801
10	6.214	34.142	26.848
20	6.213	34.142	26.848
30	6.213	34.143	26.848
40	6.218	34.142	26.847
50	6.209	34.142	26.848
75	5.798	34.130	26.890
100	5.390	34.121	26.933
125	4.777	34.105	26.991
150	4.002	34.094	27.065