



HOKKAIDO UNIVERSITY

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THE “OSHORU 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

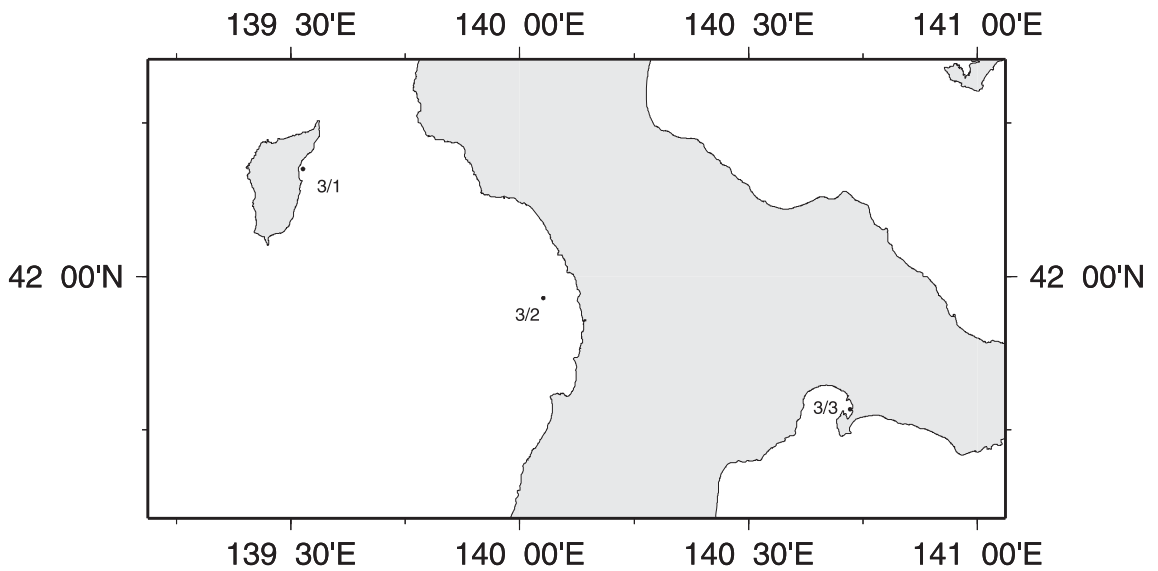


Figure 1: Noon position

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”.

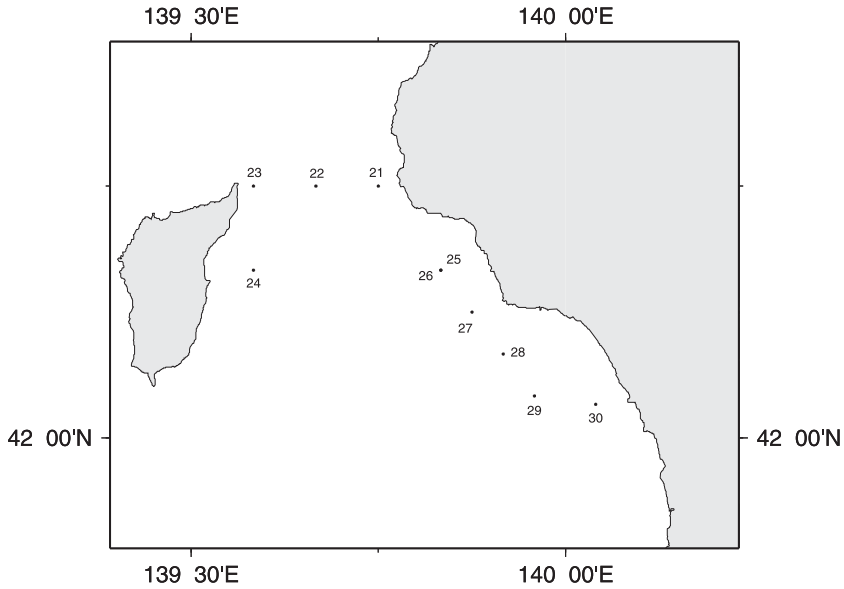


Figure 2: Oceanographic stations

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				Station OS08022 Longitude 42-15.0N Latitude 139-40.0E Depth(m) 435				Station OS08023 Longitude 42-15.0N Latitude 139-35.0E Depth(m) 562			
Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T
5	6.091	34.147	26.867	5	6.150	34.149	26.861	5	6.280	34.146	26.842
10	6.087	34.147	26.868	10	6.154	34.150	26.861	10	6.287	34.147	26.842
20	6.084	34.147	26.868	20	6.072	34.145	26.868	20	6.296	34.147	26.841
30	6.031	34.145	26.873	30	6.058	34.146	26.871	30	6.191	34.148	26.855
40	5.961	34.144	26.881	40	6.032	34.145	26.874	40	6.171	34.148	26.858
50	5.916	34.144	26.887	50	6.017	34.145	26.875	50	6.141	34.147	26.861
75	5.355	34.132	26.946	75	5.754	34.135	26.900	75	4.784	34.103	26.989
				100	4.678	34.102	26.999	100	3.808	34.084	27.077
				125	2.920	34.055	27.138	125	3.247	34.071	27.121
				150	2.571	34.060	27.172				

Station OS08024 Longitude 42-10.0N Latitude 139-35.0E Depth(m) 512				Station OS08025 Longitude 42-10.0N Latitude 139-50.0E Depth(m) 691				Station OS08026 Longitude 42-10.0N Latitude 139-50.0E Depth(m) 492			
Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T
5	6.406	34.147	26.827	5	6.635	34.051	26.721	5	6.062	34.144	26.869
10	6.404	34.147	26.827	10	6.683	34.149	26.792	10	6.047	34.144	26.870
20	6.416	34.150	26.827	20	6.696	34.148	26.789	20	6.040	34.143	26.871
30	6.392	34.150	26.831	30	6.696	34.148	26.789	30	5.999	34.141	26.874
40	6.163	34.144	26.856	40	6.698	34.148	26.789	40	5.933	34.139	26.881
50	5.875	34.135	26.885	50	6.663	34.147	26.792	50	5.931	34.139	26.881
75	4.321	34.077	27.018	75	4.840	34.121	26.997				
100	3.167	34.060	27.119	100	3.913	34.082	27.065				
125	2.680	34.061	27.164	125	2.902	34.083	27.162				
150	2.195	34.064	27.206	150	2.246	34.072	27.209				

Station OS08027 Longitude 42-07.5N Latitude 139-52.5E Depth(m) 295				Station OS08028 Longitude 42-05.0N Latitude 139-55.0E Depth(m) 123				Station OS08029 Longitude 42-02.5N Latitude 139-57.5E Depth(m) 370			
Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T	Press.	Temp.	Sal.	SIG-T
5	5.720	34.129	26.900	5	6.217	34.146	26.851	5	6.331	34.020	26.736
10	5.734	34.130	26.898	10	6.227	34.146	26.849	10	6.416	34.145	26.824
20	5.697	34.128	26.902	20	6.232	34.146	26.849	20	6.397	34.144	26.826
30	5.684	34.128	26.903	30	6.220	34.145	26.850	30	6.395	34.145	26.826
40	5.666	34.129	26.906	40	6.165	34.144	26.855	40	6.359	34.143	26.830
50	5.670	34.130	26.907	50	6.025	34.139	26.870	50	6.278	34.141	26.839
75	5.527	34.127	26.921	75	5.647	34.130	26.909	75	6.080	34.133	26.858
100	5.372	34.123	26.937	100	4.986	34.115	26.975	100	5.071	34.103	26.956
125	5.421	34.125	26.933					125	4.565	34.106	27.015
150	5.484	34.126	26.926					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