



HOKKAIDO UNIVERSITY

Title	I.THE "OSHORO MARU" CRUISE 197 TO THE OYASHIO REGION IN FEBRUARY 2009
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THE “OSHORO MARU” CRUISE 197
TO THE OYASHIO REGION

IN FEBRUARY 2009

1. Cruise Itinerary

Cruise 197

Departure from Hakodate	Feb.	17	2009
Start hydrographic research (OS09001)		18	
Finish hydrographic research (OS09002)		19	
Return to Hakodate		20	

Total coverage 595.1 miles

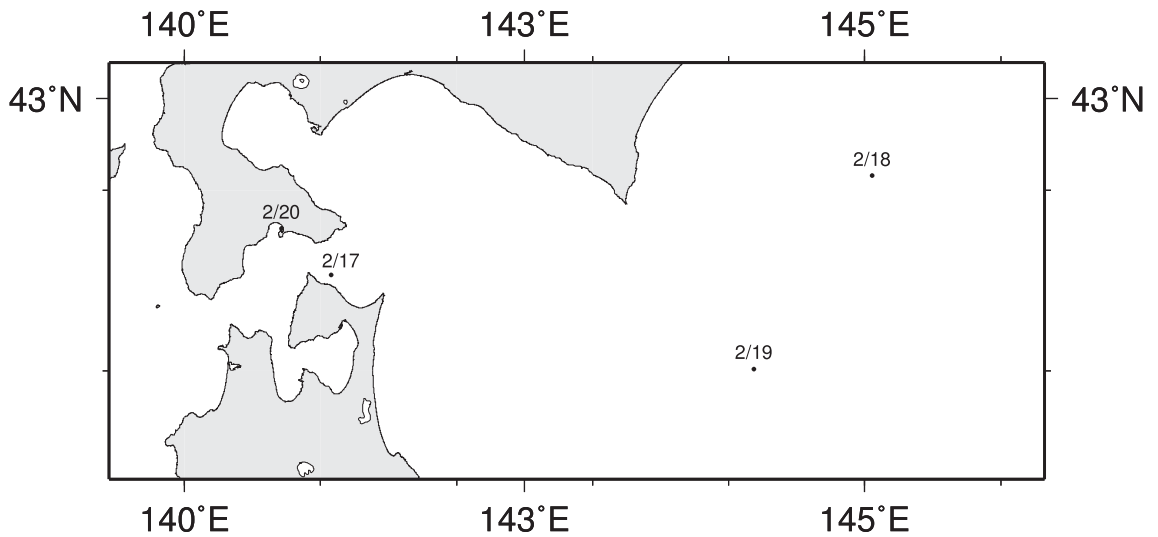


Figure 1: Noon position

2. Vessel Personnel

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

Cruise 197

Research Staff:	Associate Professor	(Graduate School of Environmental Science)	Yutaka Watanabe
	Associate Professor	(Institute of Low Temperature Science, Hokkaido University)	Jun Nishioka
	Total		31 persons

3. Items of Research

Hydrographic observations: Fig. 2 Table 1,2

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”.

Table 1: List of Oceanographic Stations

Station	Lat.(*)	Long.(*)	Date	S.M.T	T.Z.	Depth	COL.	TR.	S.S.T.	WR.	Remark
OS09001	42-15.0N	145-00.0E	2/18	0500	9	2624	-	-	1.5	bc	9Plus-0769
OS09002	41-00.0N	146-00.0E	2/19	2300	9	5370	-	-	7.8	r	9Plus-0769

(*):Fixed position by Global Positioning system

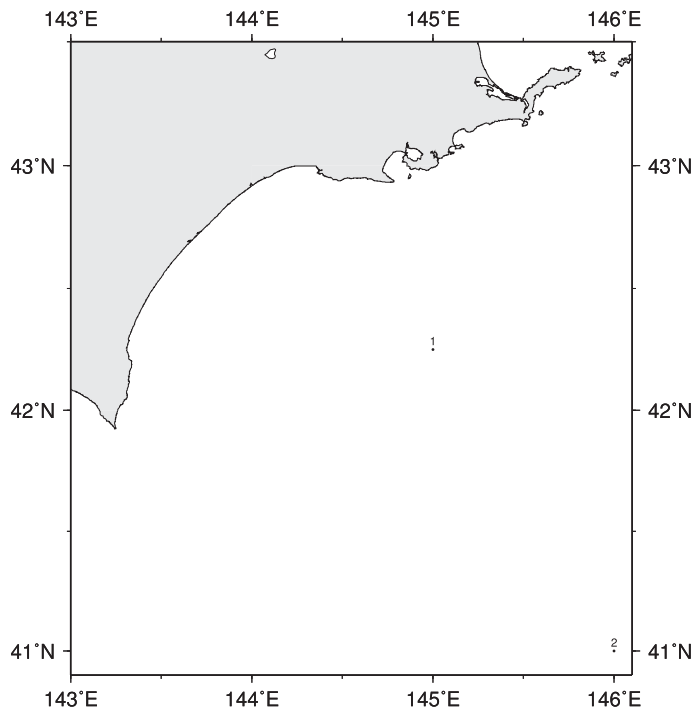


Figure 2: Oceanographic stations

Table 2: Oceanographic data

Station		OS09001	
Longitude		42-15.0N	
Latitude		145-00.0E	
Depth(m)		2624	
Press.	Temp.	Sal.	SIG-T
5	1.576	33.213	26.571
10	1.576	33.213	26.571
20	1.577	33.212	26.570
30	1.577	33.211	26.569
40	1.572	33.211	26.569
50	1.580	33.211	26.569
75	1.585	33.212	26.569
100	1.596	33.214	26.570
125	1.667	33.246	26.591
150	2.038	33.373	26.665
200	2.193	33.497	26.753
250	2.205	33.545	26.790
300	2.275	33.626	26.849
400	2.453	33.752	26.936
500	2.522	33.868	27.023
600	2.844	33.979	27.084
700	2.926	34.092	27.167
800	2.822	34.208	27.269
900	2.685	34.272	27.332
1000	2.648	34.331	27.383

Station		OS09002	
Longitude		41-00.0N	
Latitude		146-00.0E	
Depth(m)		5370	
Press.	Temp.	Sal.	SIG-T
5	8.053	34.081	26.544
10	8.059	34.082	26.544
20	8.059	34.081	26.544
30	8.061	34.081	26.544
40	8.059	34.081	26.544
50	8.056	34.082	26.545
75	8.067	34.081	26.543
100	8.074	34.081	26.541
125	8.069	34.080	26.541
150	8.071	34.080	26.541
200	8.076	34.080	26.540
250	8.081	34.080	26.539
300	8.085	34.081	26.539
400	5.227	33.681	26.604
500	3.636	33.619	26.724
600	3.182	33.702	26.833
700	2.873	33.806	26.943
800	3.487	34.036	27.071
900	3.487	34.159	27.168
1000	3.336	34.253	27.257