HOKKAIDO UNIVERSITY

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THE " OSHORO MARU " CRUISE 213 TO THE OFF HIYAMA AREA

IN MARCH 2010

1. Cruise Itinerary

Cruise 213			
Departure from Hakodate	Mar.	8 ,	2010
Start Bottom Long-line research (OSBL1001)		9	
Start hydrographic research (OS10002)		9	
Arrival at Okushiri		11	
Departure from Okushiri		12	
Arrival at Hakodate and change cadets		13	
Departure from Hakodate		14	
Finish Bottom Long-line research (OSBL1002)		15	
Finish hydrographic research (OS10003)		15	
Operating ROV		15	
Arrival at Okushiri		16	
Departure from Okushiri		17	
Return to Hakodate		18	
Total coverage 431.8 miles			

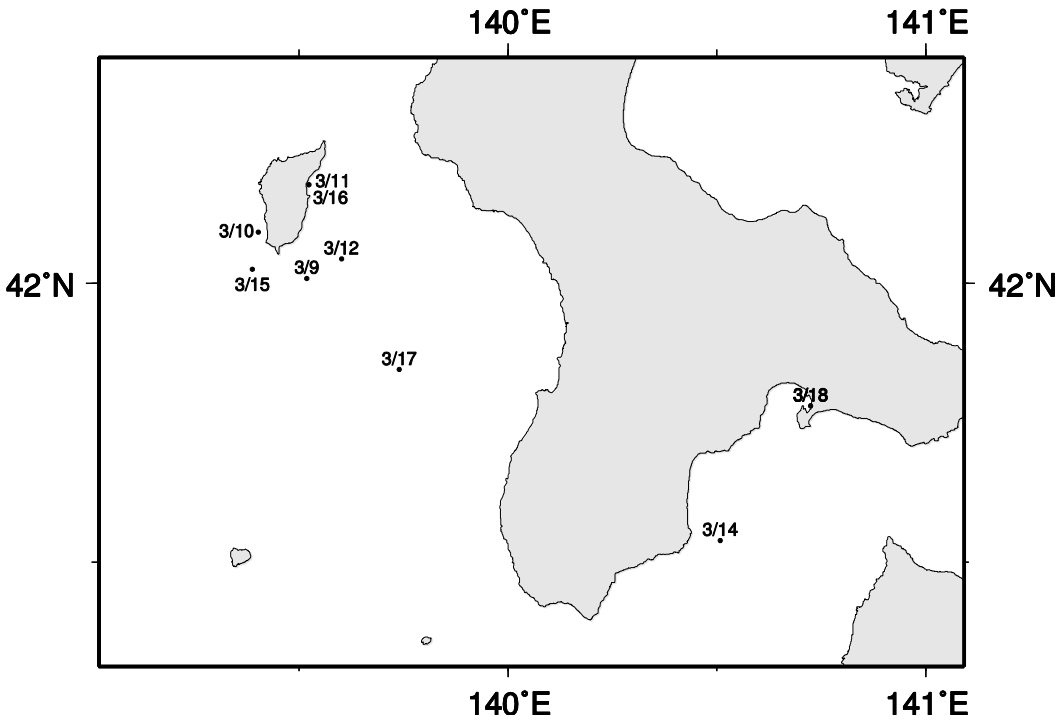

Figure 1. Noon position

2. Vessel Personnel

Captain:		Associate Professor	Shogo Takagi
Crew:	First Officer	Instructor	Yoshihiko Kamei
	Second Officer	Instructor	Keiichiro Sakaoka
	Second Officer	Technical official	Naoki Hoshi
	Third Officer	Technical official	Takuzo Abe
	Chief Engineer	Instructor	Jyunichi Kimura
	And 23 men		

Cruise 213

Research Staff:

Associate Professor	(Laboratory of Marine Environment and Resource Sensing) Yasuzumi Fujimori
Associate Professor	(Laboratory of Marine Environment and Resource Sensing) Tohru Mukai
Professor	(Division of Bioengineering and Bioinformatics) Hidemi Watanabe
Instructor	(Laboratory of Aquatic Ecosystem Conservation) Jun Yamamoto
Research Fellow	(Graduate School of Information and Technology GCOE) Toshiro Iwamori

Technical Staff: Technical assistant (KOWA Corporation)
Hiroyuki Saka, Katsuki Fujimoto, Osamu Numamoto, Takayuki Uemura, Naoki katsuta, Shinichi Fujita

Teaching Assistant	2 persons
Graduate Students	3 persons
Under Graduate Students:	48 persons
Total	64persons

3. Items of Research

Hydrographic observations: Fig. 2 Table 1, 2

Bottom Long-line observations: Fig. 3 Table 3

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".

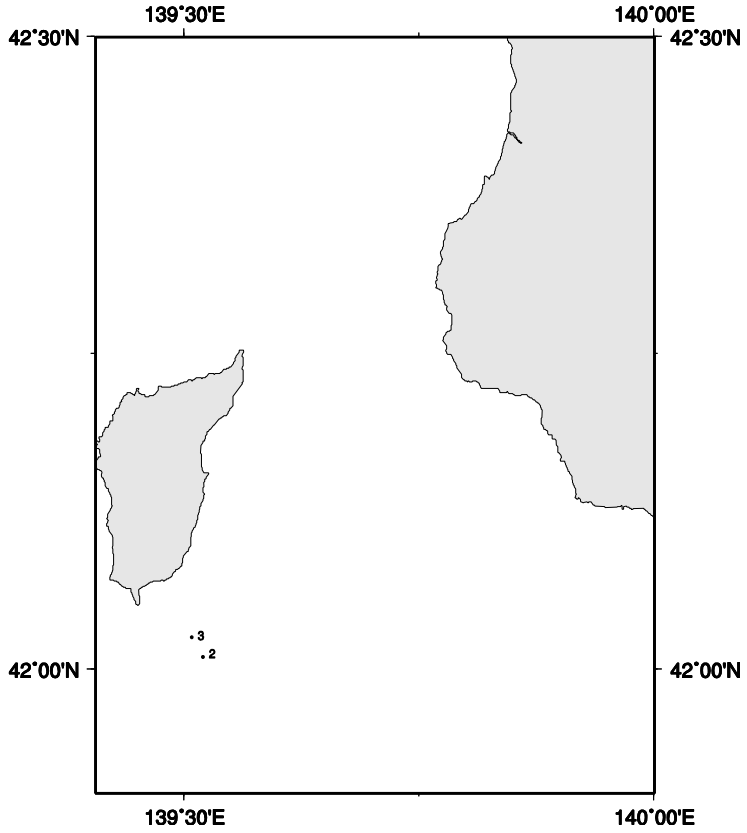

Figure 2. Oceanographic station

Table 1. List of Oceanographic Station

Station	Lat.(*)	Long.(*)	Date	S.M.T	T.Z.	Depth	COL.	TR.	S.S.T.	WR.	Remark
OS10002	42-00.3N	139-31.1E	3/9	0920	9	119	6	11.5	7.8	S	9Plus-0769
OS10003	42-01.2N	139-30.4E	3/15	0840	9	120	7	10.5	8.1	C	9Plus-0769

(*) : Fixed position by Global Positioning System

Table 2. Oceanographic data

Station	OS10002		
Latitude	42-00.3N		
Longitude	139-31.1E		
Depth(m)	119		
Press.	Temp.	Sal.	SIG-T
5	7.815	34.067	26.568
10	7.832	34.070	26.568
20	7.834	34.070	26.568
30	7.800	34.071	26.573
40	7.738	34.073	26.584
50	7.667	34.069	26.592
75	6.601	34.069	26.739
100	5.938	34.074	26.828

Station	OS10003		
Latitude	42-01.2N		
Longitude	139-30.4E		
Depth(m)	120		
Press.	Temp.	Sal.	SIG-T
5	7.735	34.060	26.575
10	7.739	34.060	26.574
20	7.738	34.059	26.573
30	7.738	34.059	26.573
40	7.655	34.060	26.586
50	7.114	34.086	26.683
75	5.679	34.085	26.869
100	4.893	34.077	26.956

5. Data on bottom long-line observations

Two operations of the bottom long line were carried out. These operation were supervised by the captain, and deck officers, crew, cadets and research staff were engaged in the work.

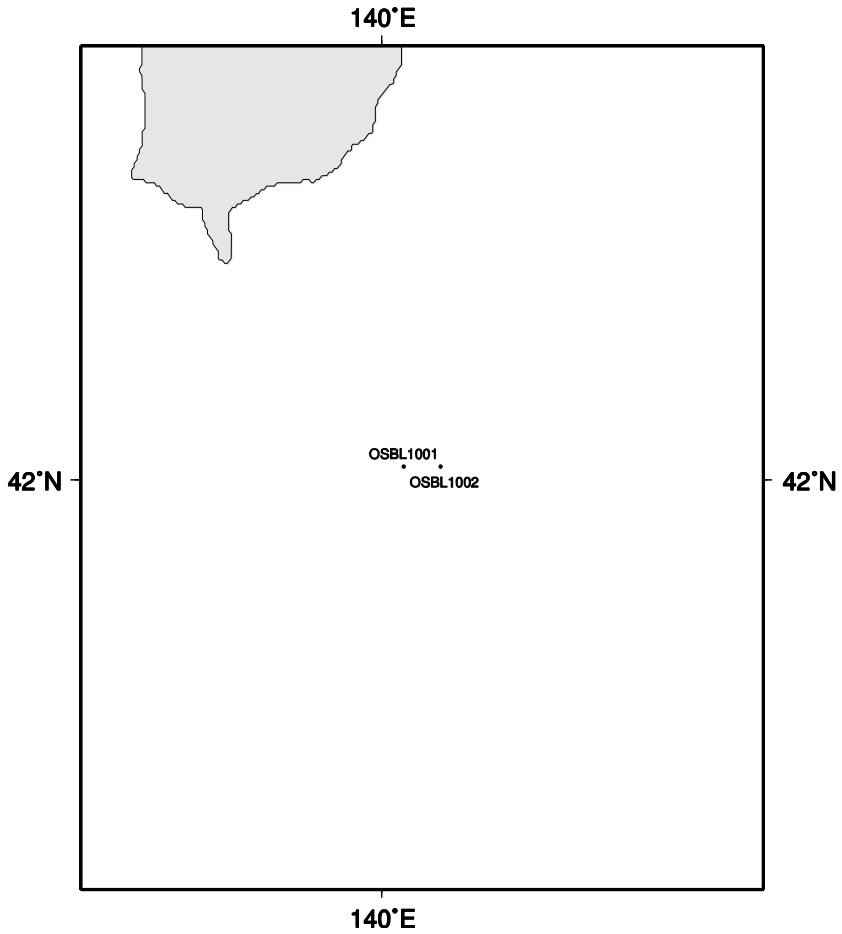

Figure 3. Locations of bottom long line research

Table 3. Data on bottom long line research

No. of research		OSBL1001	OSBL1002
Date		9-Mar	15-Mar
position of	Lat. (N)	42-00.2	42-00.2
line set	Long. (E)	139-30.4	139-31.1
Time(S.M.T.)	line set	0754	0755
Number of baskets		20	20
Surface temp. (°C)		-	7.7
Wether		s	s
Wind		West-3	South-3

Common name	Scientific name		
Spiny dogfish	*Squalus acanthias*	1	
Rajidae	Rajidae gen. sp.	9	5
Pacific cod	*Gadus macrocephalus*	3	3
Okhotsk atka mackerel	*Pleurogrammus azonus*	17	12
Gimlet-spine sculpin	*Taurocottus bergi*		1
Blsck edged sculpin	*Gymnocanthus herzensteini*	23	19
Elkhorn sculpin	*Alcichthys alcicornis*	2	1
Pointhead flounder	*Cleisthenes pinetorum*		1
Dusky sole	*Pleuronectes mochigarei*	2	3
Chestnut octopus	*Octopus conispadiceus*		1
Horsehair crab	*Erimacrus isenbeckii*	1	