HOKKAIDO UNIVERSITY

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THE "OSHORO MARU" CRUISE 010
TO SAGAMI-WAN, TATEYAMA-WAN, and TOHOKU OFF

IN DECEMBER 2014

1. Cruise Itinerary

Cruise 010

Departure from Tokyo	December 18	2014
Hydrographic research (OS14175-OS14177)	19	
Return to Tokyo	20	
Departure from Tokyo	21	
Hydrographic research (OS14178, OS14179)	22	
Return to Hakodate	24	

Total coverage 786.2 miles

2. Vessel Personnel

Crew: Captain: Associate Professor Shogo Takagi

And 29 persons

Undergraduate instructor: Leg1

Professor (Laboratory of Coastal Marine Biology and ecology, Kitasato University)
Ryusuke Kado

Junior Associate Professor (Department of Marine Biochemical Resources, Kitasato University)
Ko Yasumoto

Specially Appointed Associate Professor (School of Fisheries Sciences, Hokkaido University)
Mituhiro Nakaya

PR manager:	1 person
Teaching Assistant:	3 persons
Undergraduate Students:	58 persons

Undergraduate instructor: Leg2

Professor (Laboratory of Coastal Marine Biology and ecology, Kitasato University)
Ryusuke Kado

Junior Associate Professor (Laboratory of Coastal Marine Biology and ecology, Kitasato University)
Yuichiro Yamada

Teaching Assistant:	2 persons
Undergraduate Students:	39 persons
Technical staff:	2 persons

Total 106 persons

3. Items of Research

Hydrographic observations: (Observation of Temperature, Salinity, and Computed Dynamic Depth Anomaly)

Hydrographic work on deck and the data processing were made by the Science officer, the deck officers, crews, research staff and cadets of the “Oshoro maru”. Temperature and salinity were measured by CTD (Seabird SBE-9Plus) and XCTD.

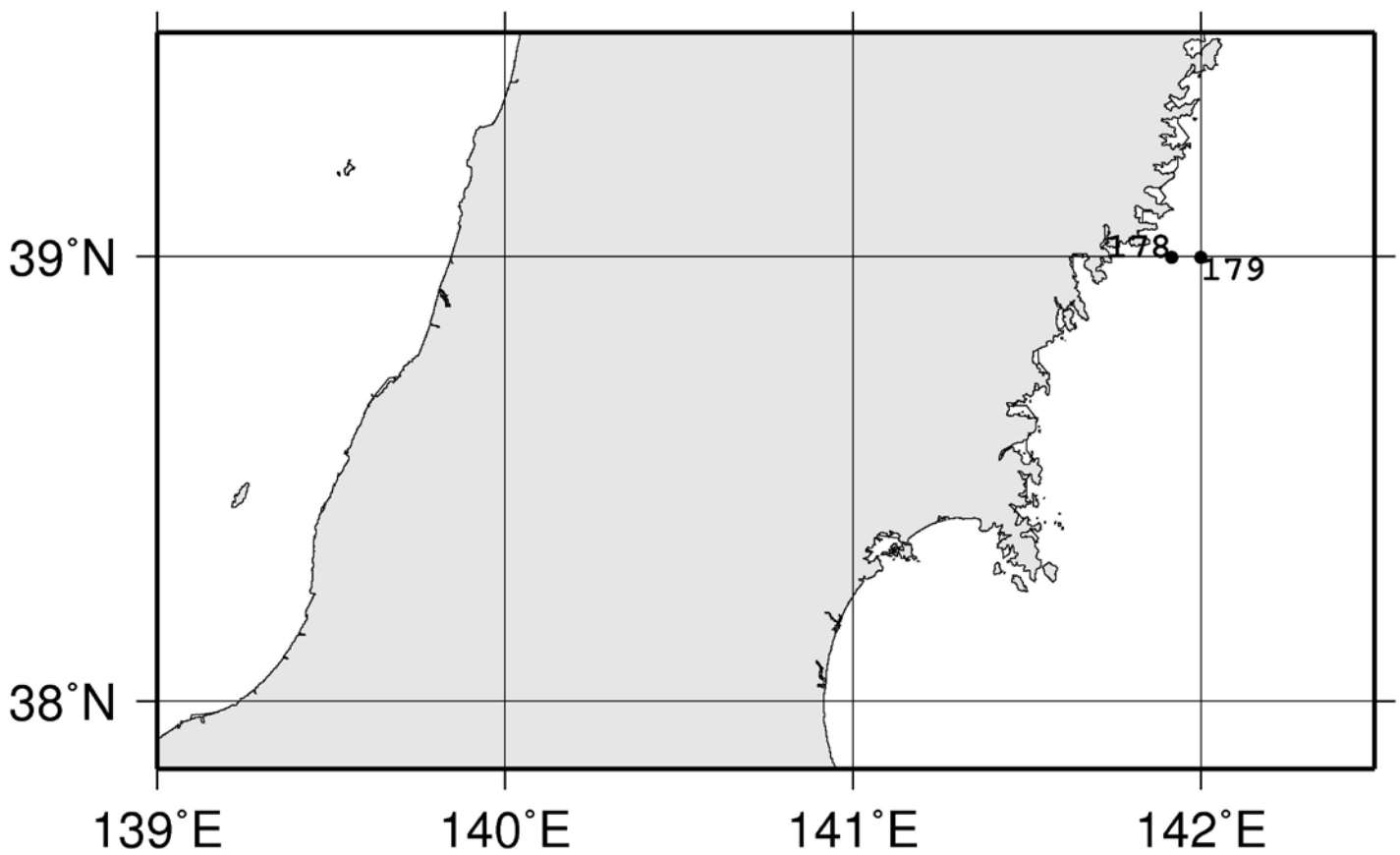

Fig.-1 Oceanographic stations

Table 1. List of Oceanographic station

Station	Lat.	Long.	Date (GMT)	Hour (GMT)	T.Z.	Depth	Col.	Tr.	SST	Wr.	Gear
OS14178	38 59.96 N	141 54.99 E	12/22	21:40	9	139			11.9	s	19p-4636
OS14179	38 59.91 N	141 59.96 E	12/22	22:25	9	201			11.8	s	19p-4636

T.Z.: Time Difference between G.M.T and S.M.T.

Col.: Water color in Forel-Ule scale

Tr.: Transparency in meters with Secchi disc

SST: Surface temperature

Wr.: Weather in WMO Code 4501

Table 2. Oceanographic data

Latitude 38-59.96N
Longitude 141-54.99E
Depth(m) 139.1

Press.	Temp.	Sal.	SIG-T
10	11.733	33.962	25.833
20	11.735	33.962	25.832
30	11.736	33.962	25.832
50	11.749	33.962	25.830
75	11.764	33.963	25.828
100	11.757	33.962	25.829

Station OS14179
Latitude 38-59.91N
Longitude 141-59.96E
Depth(m) 200.5

Press.	Temp.	Sal.	SIG-T
10	11.589	33.972	25.867
20	11.576	33.971	25.869
30	11.571	33.971	25.870
50	11.539	33.969	25.875
75	11.354	33.974	25.913
100	11.247	33.969	25.928
150	11.212	33.961	25.928