



Title	5.THE "OSHORO MARU" CRUISE 030 to EAST OF TSUGARU STRAIT (IBURI/HIDAKA OFF.) in SEPTEMBER 2016
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**THE "OSHORO MARU" CRUISE 030  
TO EAST OF THE TSUGARU STRAIT  
(IBURI / HIDAKA OFFING)  
IN SEPTEMBER 2016**

# 1. Cruise Itinerary

## Cruise 030

Departure from Hakodate and start of oceanographic research	Sep. 26, 2016
Start of bottom trawl research (OST1601)	27
End of bottom trawl research (OST1604)	28
End of oceanographic research	30
Return to Hakodate	Oct. 01

Total coverage 567.2 miles

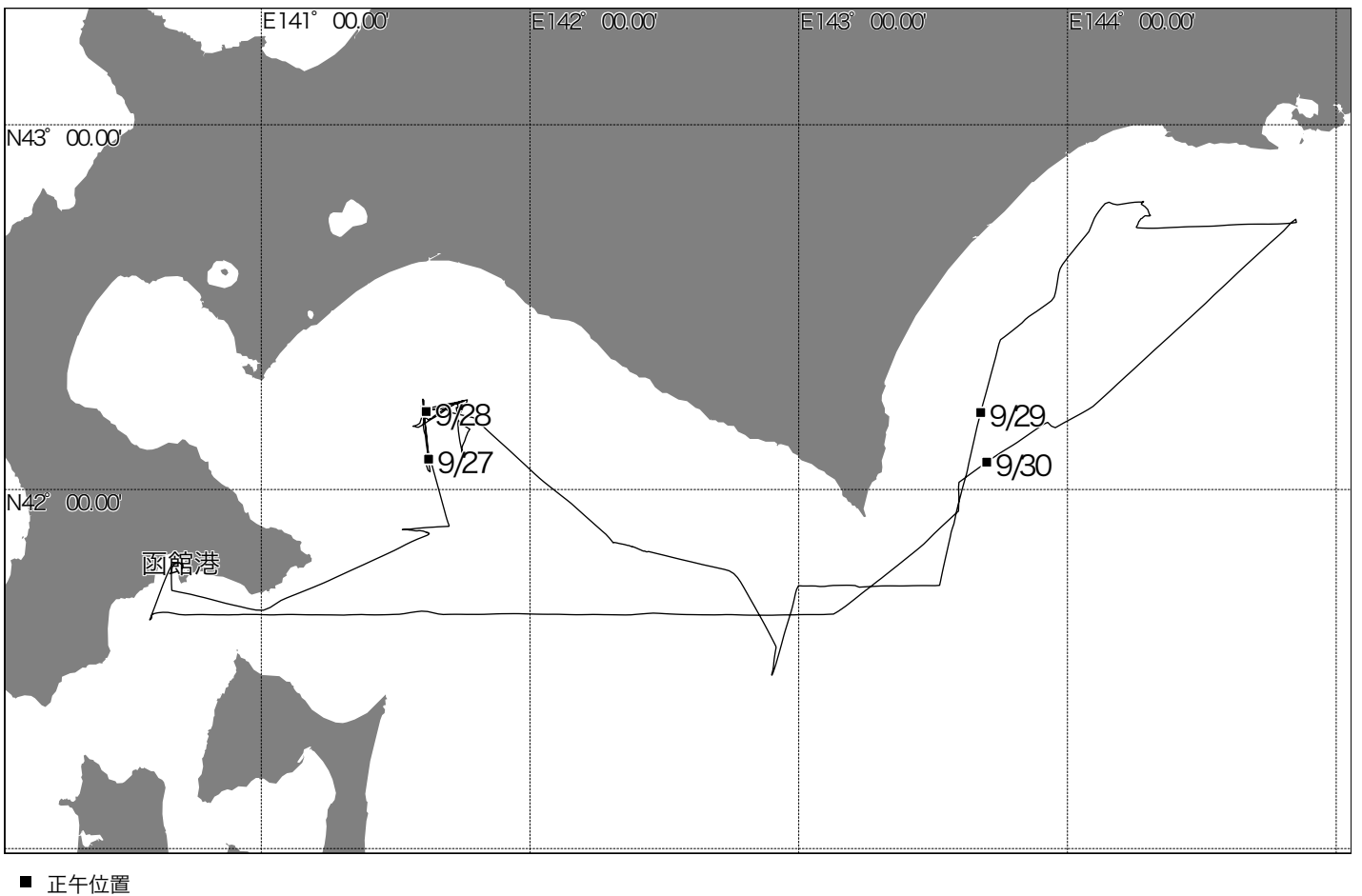


Fig.1 Noon Position

## 2. Vessel Personnel

Crew: Captain: Associate Professor Shogo Takagi  
And 30 persons

Under Graduate instructor: Associate Professor (Laboratory of Marine Biology and Biodiversity, Hokkaido University)

Hisashi Imamura

Associate Professor (Laboratory of Marine Bio-resources Ecology, Hokkaido

University)

Takashi Matsuishi

Associate Professor (Laboratory of Marine Environmental Science, Hokkaido

University)

Atsushi Ooki

Associate Professor (Laboratory of Marine Biodiversity, Hokkaido University)

Atsushi Yamaguchi

Associate Professor (Laboratory of Marine Bioresource Science, Hokkaido

University)

Orio Yamamura

Teaching Assistant: 10 persons

Under Graduate Student: 45 persons

## 3. Items of Research

A short cruise to conduct shipboard training in hydrographic observations, plankton samplings, sighting survey of marine mammals and biological processing of trawl for undergraduate students in the department of marine biological science.

Bottom trawl observations:

Two operations of the stern otter bottom trawl were carried out.

These operations were supervised by the captain, Deck officer, Science officer, crew, research staff, and cadets were engaged in the work.

#### 4. Result of Bottom Trawl Research

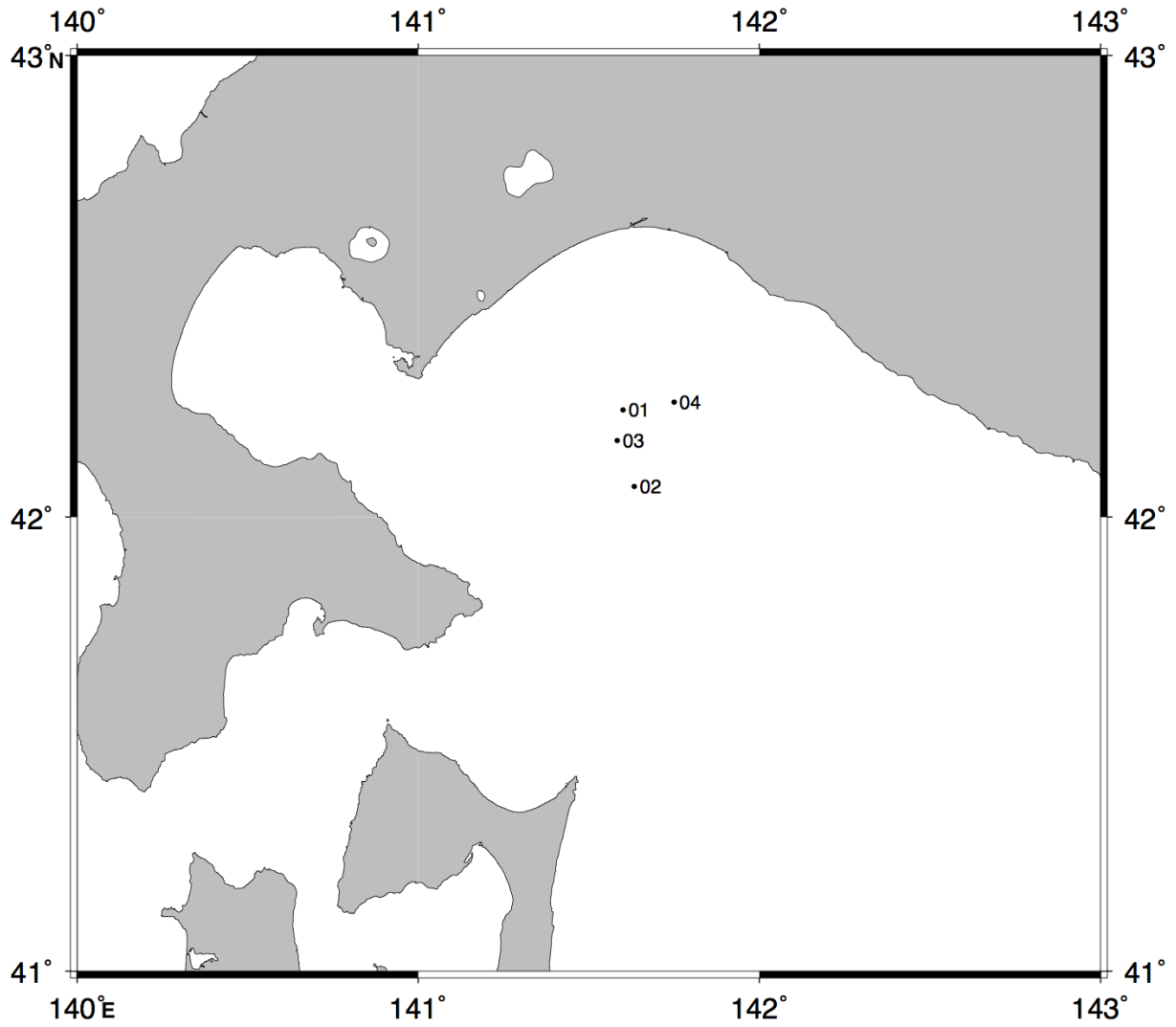


Fig.2 Trawl Research Positions

Table1. Data on bottom trawl research

Station	Date and Time of new tow (S.M.T.*1)		T.D.*2	Set Position		D.S.*3	Spead of tow (knot)	bottom depth(m)	Wr*4	Wind (Force)	S.S.T.*5 (°C)
				Lat.	Long.						
OST1601	Sep 27	0900 - 1000	+09h	42-14.0N	141-36.0E	175°	3	710	bc	East-3	20.3
OST1602	Sep 27	1220 - 1320	+09h	42-03.7N	141-37.6E	355°	3	750	c	SSE-2	20.5
OST1603	Sep 28	0715 - 0815	+09h	42-10.3N	141-35.1E	055°	3	690	c	SSW-6	20.4
OST1604	Sep 28	1030 - 1130	+09h	42-14.7N	141-45.1E	255°	3	715	c	ESE-3	20.5

\*1 S.M.T. : Ship's Mean Time.

\*2 T.D. : Time Difference between Greenwich Mean Time (G.M.T.) and Ship's Mean Time (S.M.T.).

\*3 D.S. : Direction of tow.

\*4 Wr. : Weather (bc:25-74%clouded, c: 75-99% clouded).

\*5 S.S.T. : Sea Surface temperature

Table 2. Catches by bottom trawl research

Japanese name	Scientific name	OST1601		OST1602		OST1603		OST1604	
		Number	Weight(kg)	Number	Weight(kg)	Number	Weight(kg)	Number	Weight(kg)
Kichiji	<i>Sebastolobus macrochir</i>	115	18.5	209	44.9	84	17	100	16
Shirogenge	<i>Bothrocara molle</i>	393	161.85	475	146	23	15.05	83	46.5
Itohikidara	<i>Laemonema longipes</i>	66	42.02	38	26.1	14	5.19	24	16.5
Tako-ru	<i>Octopuses spp.</i>		34.06	68	24	91	31	79	26.55
Karafutosokodara	<i>Coryphaenoides cinereus</i>	43	12.02	16	3.81	21	4.05	85	20.5
Kanadadara	<i>Antimora microlepis</i>	16	4.25	16	5.19	6	20.55	19	2.77
Kantengenge	<i>Bothrocara tanakae</i>	5	3.55	13	9	3	1.4	7	4.7
Ganko	<i>Dasycottus setiger</i>	13	1.39	14	1.985	17	1.505	12	1.91
Kobushikajika	<i>Malacocottus zonurus</i>	1	0.126					5	0.465
Nezumiginpo	<i>Lumpenella longirostris</i>	21	1.3	14	0.36				
Irakoanago	<i>Synaphobranchus kaupii</i>	6	2.75	17	8.25	1	0.015	11	9
Kurosokoiwashi	<i>Pseudobathylagus milleri</i>	1	0.095	3	0.15	2	0.15		
Mamehadaka	<i>Lampantctus jordani</i>	15	0.32	24	0.52	16	0.32	21	6.455
Sekkihada	<i>Stenobranchius nannochir</i>	1	0.006					2	0.025
Hirankiuo	<i>Paraliparis grandis</i>	1	0.46					7	2.4
Yokoeso	<i>Gonostoma gracile</i>	8	0.034	6	0.32	3	0.015	2	0.01
Togariichimonjiwashi	<i>Leuroglossus schmidti</i>	17	0.055	3	0.01	17	0.085	4	0.015
Benizuwaigani	<i>Chionoecetes japonicus</i>	13	5.5	10	9	22	9.5		
Yasesokoiwashi	<i>Bathylagus pacificus</i>	8	0.26			12	0.35	5	0.18
Demeeso	<i>Benthalbella linguoidens</i>	1	0.82						
Sokogangiei-zoku	<i>Bathyraja sp</i>	3	0.988	7	0.62	2	0.105	5	0.295
Higashihouraiieso	<i>Chauliodus macouni</i>	1	0.012	1	0.015			2	0.015
Dosuika	<i>Berryteuthis magister</i>	3	0.94	3	0.95	3	0.415	2	0.58
Fujikujira	<i>Etmopterus lucifer</i>	1	0.18						
Tsubu-ru	<i>Buccinidae spp.</i>	192	11.05	1850	109.5				
Samegarei	<i>Clidoderma asperrimum</i>			1	0.69			1.00	0.64
Ogurokonnyakuuo	<i>Careproctus furcellus</i>			1	0.63				
Kusauo	<i>Liparidae</i>			1	0.1				
Norogenge	<i>Bothrocara hollandi</i>			5	0.117			27	1.78
Kuromedai	<i>Ichthyos lockingtoni</i>			1	0.59				
Karasudara	<i>Halargyreus Johnsonii</i>			2	0.62				
Onikinme	<i>Anoplogaster cornuta</i>			1	0.1				
Akadonko	<i>Ebinania vermiculata</i>			1	1.51				
Shigiunagi	<i>Nemichthys scolopaceus</i>			1	0.02	2	0.02	1	0.015
Hiregurokonnyakuuo	<i>Careproctus marginatus</i>							1	0.155
Arasukabiginin	<i>Careproctus colletti</i>							1	0.14
Himeezobora	<i>Neptunea artbritica</i>							95	6.5
Kumogani	<i>Majidae</i>							16	6.7
Mikadohadaka	<i>Nannobranchium regale</i>							2	0.135
Gokouhadaka	<i>Ceratoscopelus townsendi</i>							2	0.015
Kuroshigiunagi	<i>Avocettina infans</i>					1	0.015	1	0.01
Hadakahoteieso	<i>Tactostoma macropus</i>							1	0.02
Kokonohoshiginzame	<i>Hydrolagus barbouri</i>							1	2
Ika-ru	<i>Squids spp.</i>					5	0.15	1	0.02
Kohirehadaka	<i>Stenobranchius leucopsarus</i>					1	0.01		
Ezobaigai-ru	<i>Buccinidae spp.</i>					361	22.26		
Takoika	<i>Gonatopsis borealis</i>					1	0.135		
Tsubu-ru	<i>Buccinidae spp.</i>	192	11.05	1850	109.5				
Yadokari-ru						7	0.105		
Isoginchaku-ru		32	9.5	55	6.75	20	2.6		
Namako-ru		9	1.63	17	2.11	426	38.85	3	0.375