



Title	7.THE "OSHORO MARU" CRUISE 032 to SEA OF OKHOTSK in NOVEMBER 2016
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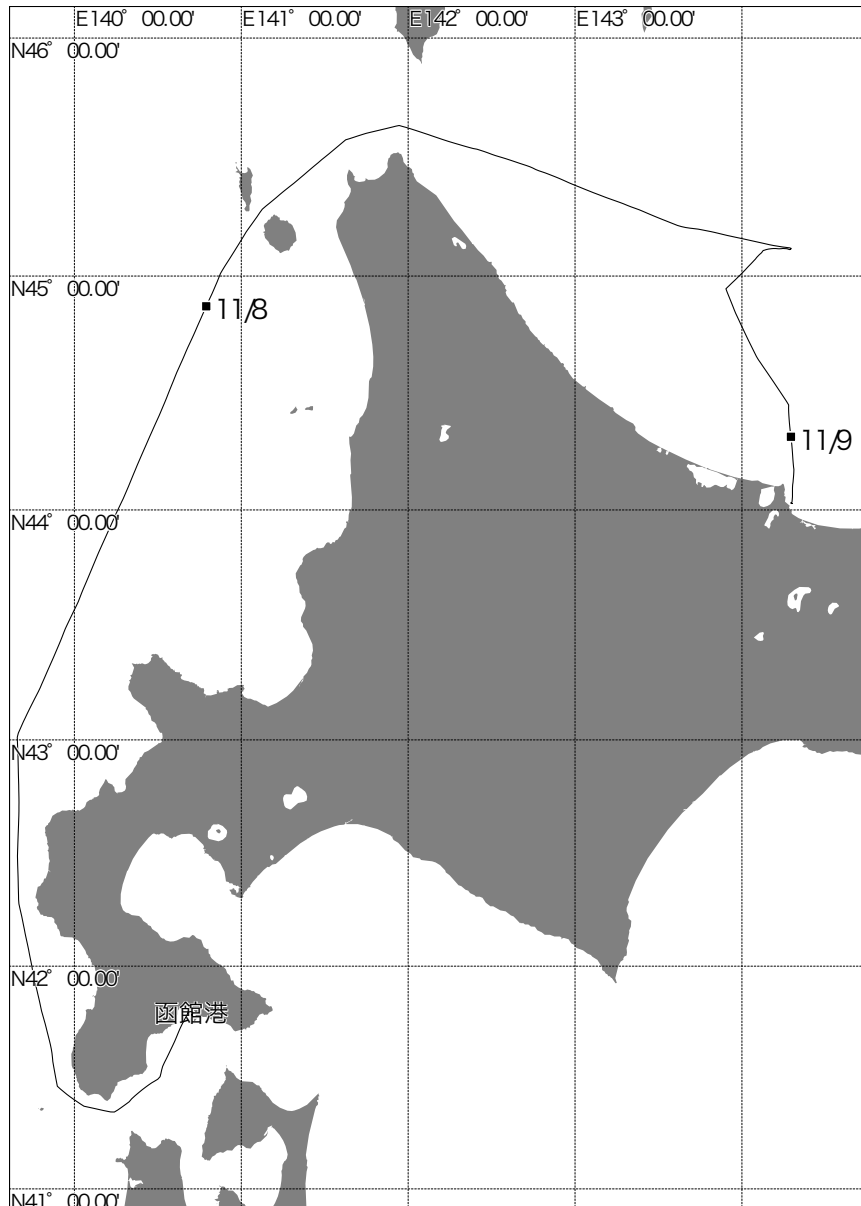
**THE "OSHORO MARU" CRUISE 032
TO SEA OF OKHOTSK
IN November 2016**

1. Cruise Itinerary

Cruise 032

Departure from Hakodate (Leg1)	Nov. 07, 2016
Start of oceanographic research	09
Arrival at and departure from Abashiri (Leg2)	11
Arrival at Monbetsu	13
Departure from Monbetsu (Leg3)	15
End of oceanographic research	16
Arrival at and departure from Abashiri (Leg4)	17
Return to Hakodate	19

Total coverage 1477.7 miles



■ 正午位置

Fig.1.1: Noon Position (Leg1)

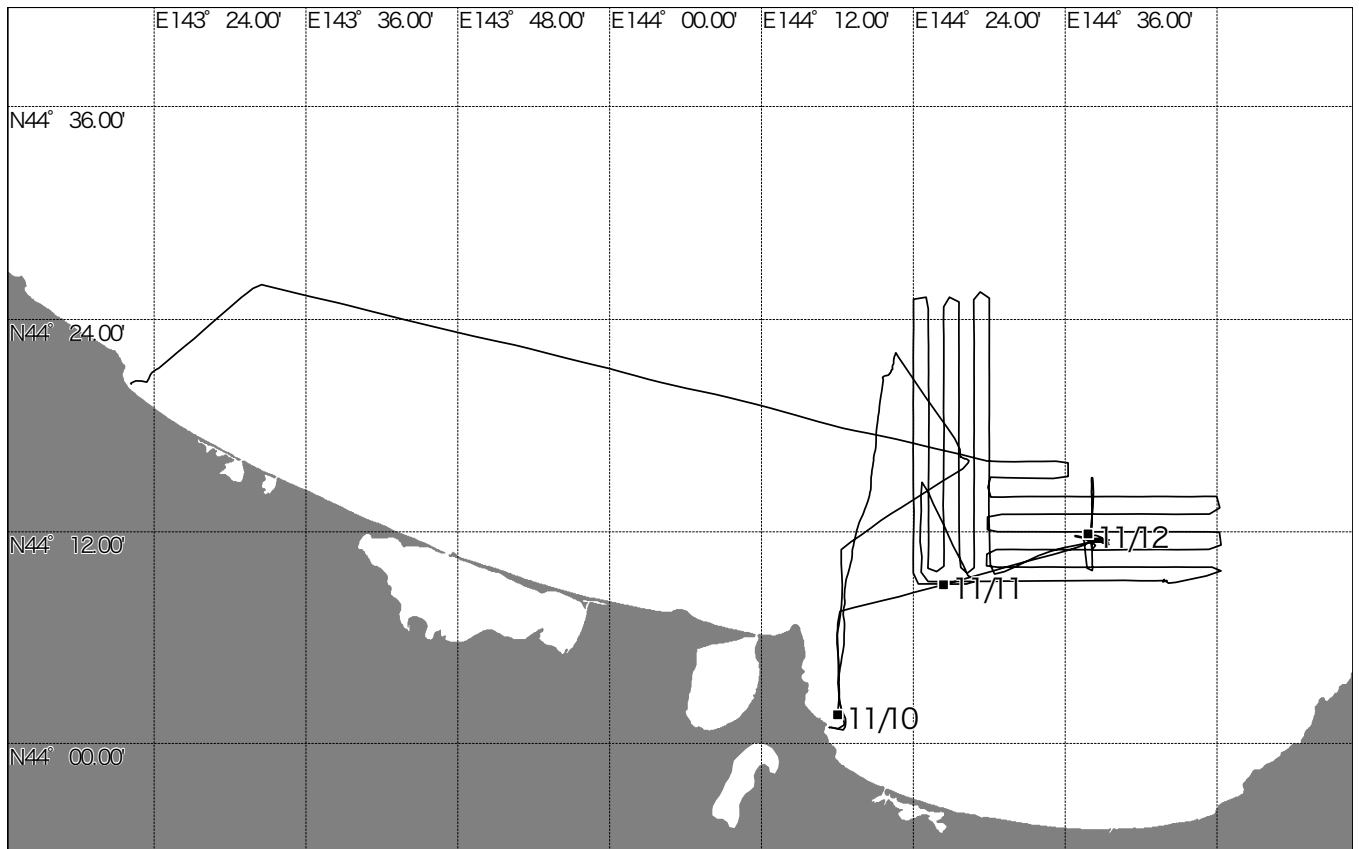


Fig.1.2: Noon Position (Leg2)

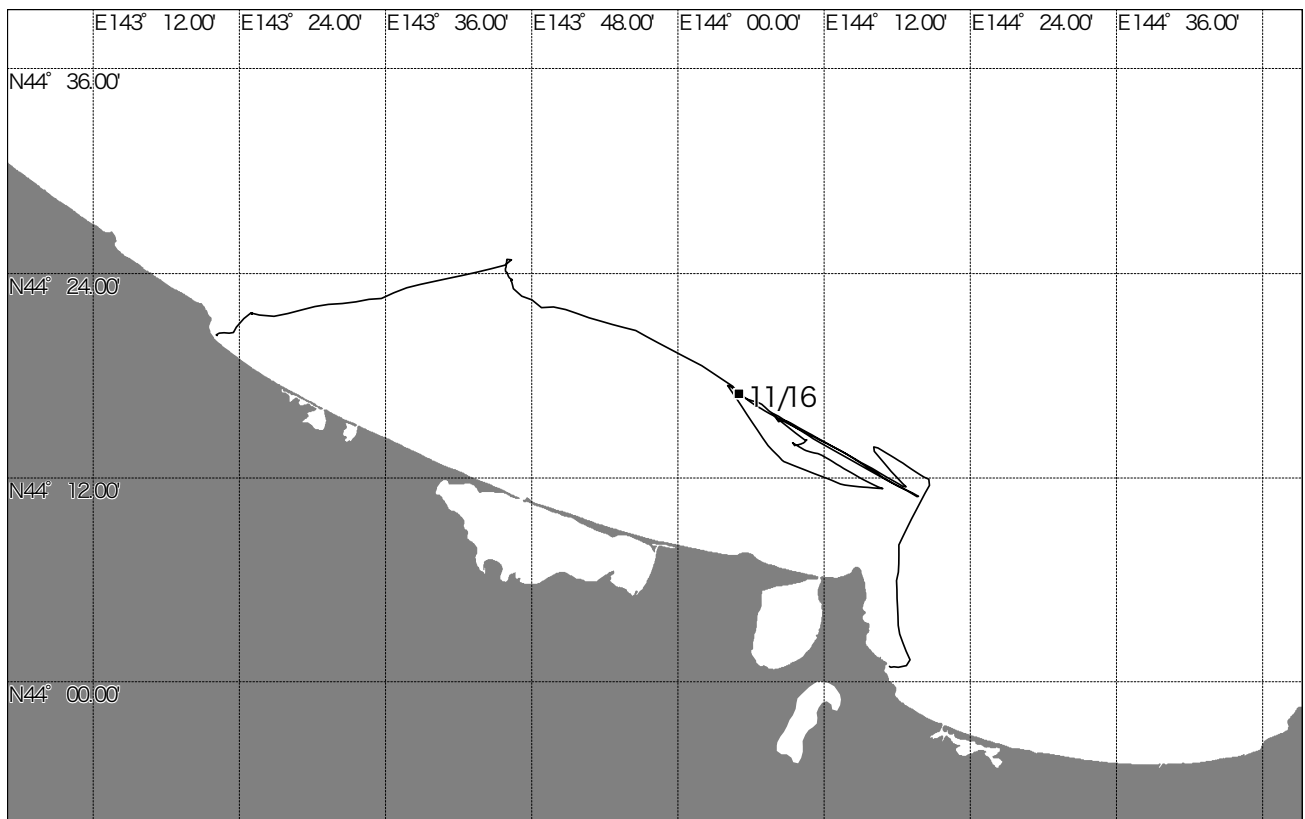
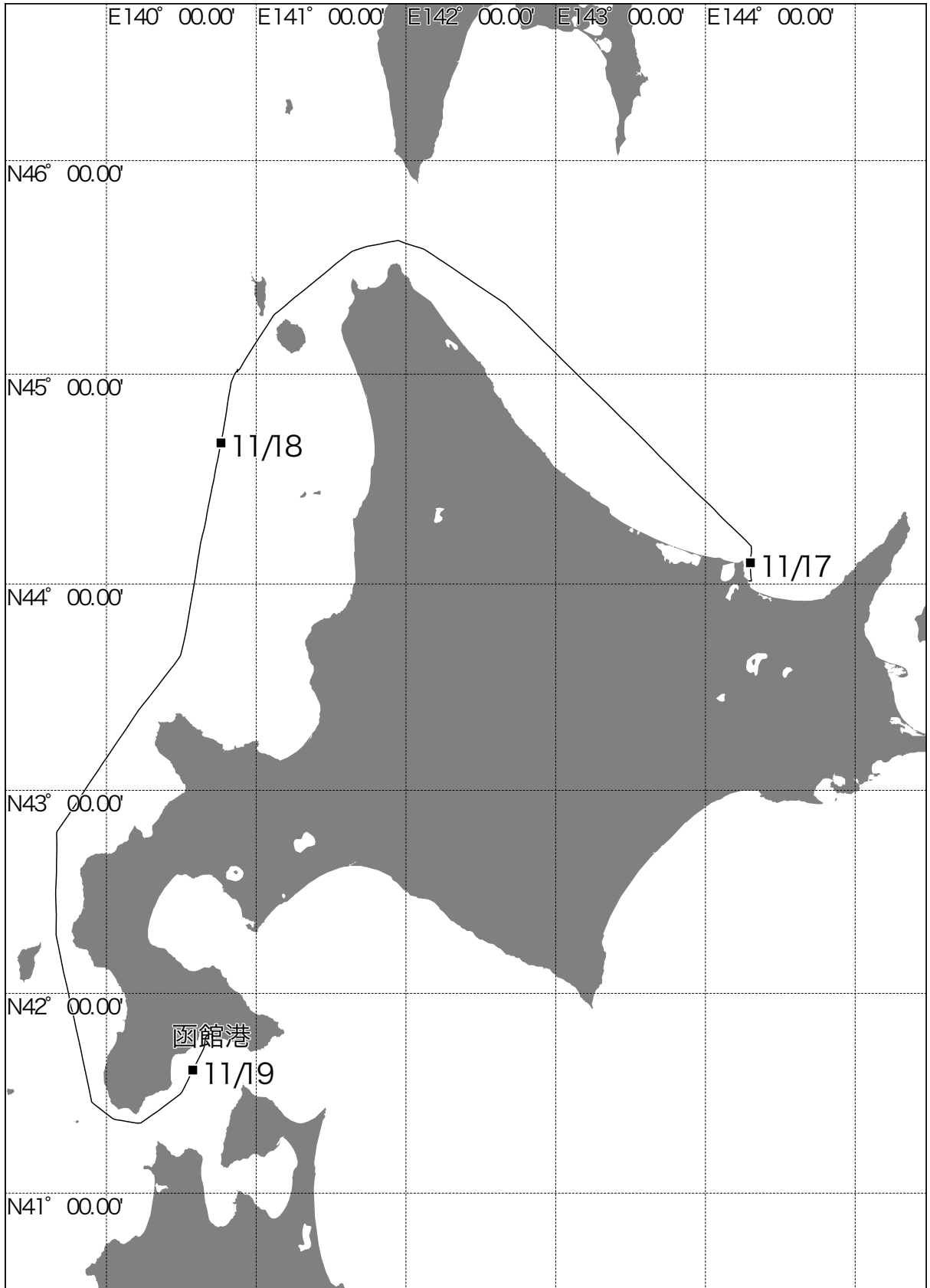


Fig.1.3: Noon Position (Leg3)



■ 正午位置

Fig.1.4: Noon Position (Leg4)

2. Vessel Personnel

Crew: Captain: Associate Professor Shogo Takagi
And 31 persons

Research Staff: Professor (Civil and Environmental Engineering, Kitami Institute of Technology)
Leg1,2 Satoshi Yamashita
Professor (Environmental and Energy Engineering, Kitami Institute of Technology)
Leg1,2 Akihiro Hachikubo
Assistant Professor (Materials Science and Engineering, Kitami Institute of Technology)
Leg1,2 Hirotohi Sakagami
Assistant Professor (Civil and Environmental Engineering, Kitami Institute of Technology)
Leg2 Shintaro Yamasaki
Technical Staff (New Energy Resources Research Center, Kitami Institute of Technology)
Leg2 Kinji Hyakutake
Associate Professor (Civil and Environmental Engineering, Kitami Institute of Technology)
Leg1 Kazutaka Tateyama
Assistant Professor (Graduate School of Advanced Science of Matter, Hiroshima University)
Leg2 Takahisa Tajima
Associate Professor (Institute of low temperature Science, Hokkaido University)
Leg1 Jun Nishioka
Technical Assistant (Institute of low temperature Science, Hokkaido University)
Leg1 Aiko Murayama
Professor (Aqua Bioscience and Industry, Tokyo University of Agriculture)
Leg3 Akihiro Shiimoto
Specially Appointed Assistant Professor (School of Fisheries Sciences, Hokkaido University)
Leg3 Mitsuhiro Nakaya

Teaching Assistant: Leg2 13 persons Leg3 2 person

Under Graduate Student: Leg1 5 persons Leg2 29 persons Leg3 29 persons