



HOKKAIDO UNIVERSITY

Title	5 THE "OSHORO MARU" CRUISE 019 TO SEA OF JAPAN IN OCTOBER 2015
Citation	海洋調査漁業試験要報, 59, 27-29
Issue Date	2019-01-31
Doc URL	https://hdl.handle.net/2115/73455
Type	dataset
File Information	Data.Rec.Oceanogr.Obs.Expl.Fish.59.27.pdf



**THE "OSHORO MARU" CRUISE 019
TO SEA OF JAPAN
IN OCTOBER 2015**

1.Cruise Itinerary

Cruise 019

Departure from Hakodate (Leg1)

Start hydrographic research

Finish hydrographic research

Arrival at Niigata

Departure from Niigata (Leg2) and finish hydrographic research

Return to Hakodate

Oct. 17, 2015

18

21

22

23

24

Total coverage 789.7 miles

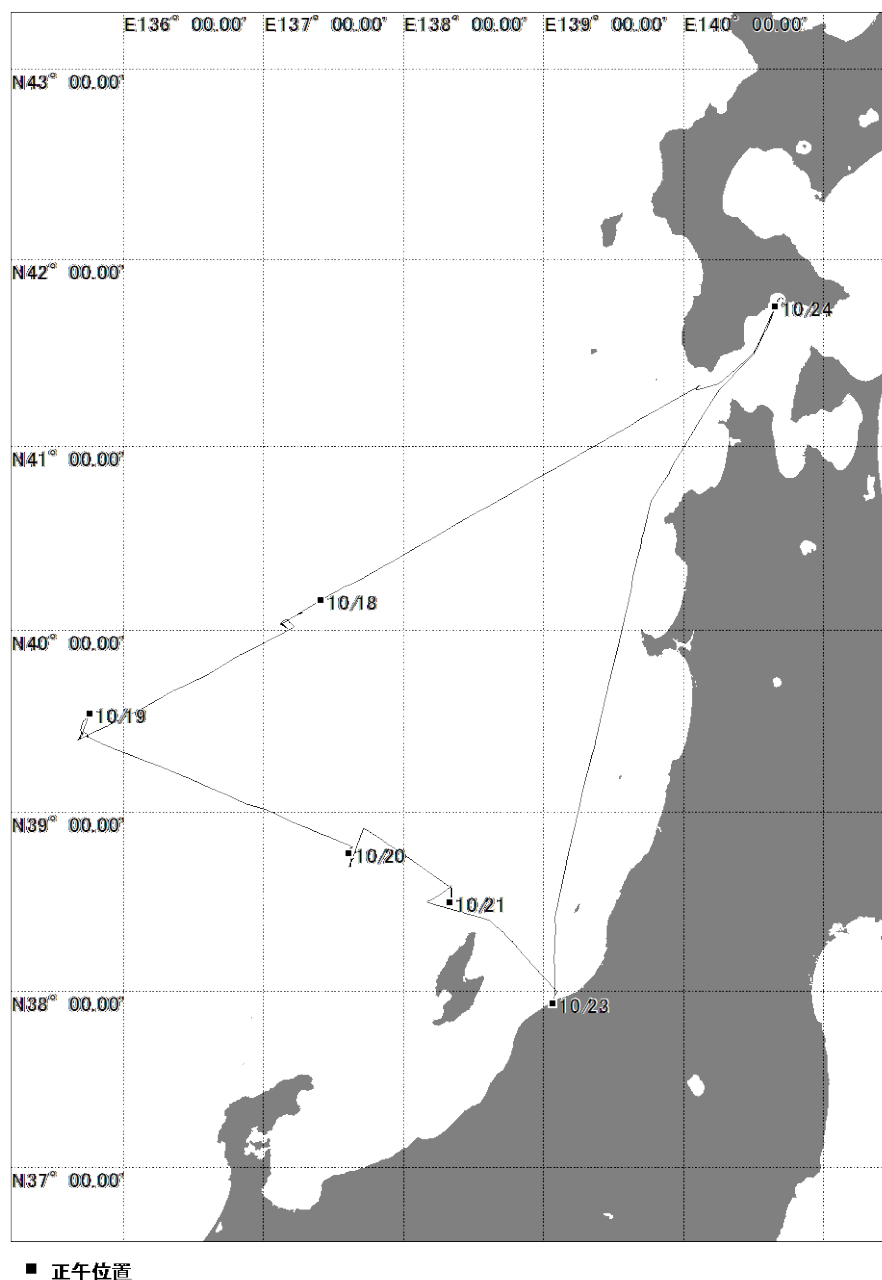


Fig. 1 Noon Position

2. Vessel Personnel

Crew:	Captain:	Associate Professor	Shogo Takagi And 30 persons
Under Graduate instructor:	Professor	(Laboratory of Marine Environment and Resource Sensing, Hokkaido University)	Leg1 Yasuzumi Fujimori
	Assistant Professor	(Field Science Center for Northern Biosphere, Hokkaido University)	Jun Yamamoto
		Teaching Assistant:	4 persons
		Under Graduate Student:	35 persons