



HOKKAIDO UNIVERSITY

Title	4.THE "OSHORO MARU" CRUISE 026 to THE WESTERN NORTH PACIFIC OCEAN in JULY and AUGUST 2016
Citation	海洋調査漁業試験要報, 60, 15-23
Issue Date	2020-03-31
Doc URL	https://hdl.handle.net/2115/77722
Type	dataset
File Information	Data.Rec.Oceanogr.Obs.Expl.Fish.60.15.pdf



**THE "OSHORO MARU" CRUISE 026
TO THE WESTERN NORTH PACIFIC OCEAN
IN JULY AND AUGUST 2016**

1. Cruise Itinerary

Cruise 026

Departure from Hakodate (Leg1)	Jun.	01, 2016
Start of oceanographic research		02
Arrival at Shiogama		07
Departure from Shiogama (Leg2)		08
Arrival at Tokyo		15
Departure from Tokyo (Leg3)		19
Arrival at Hachinohe	Jul.	13
Departure from Hachinohe (Leg4)		18
Arrival at Hakodate		19
Departure from Hakodate (Leg5)		20
End of oceanographic research		26
Arrival at Akita		27
Departure from Akita (Leg6)		28
Arrival at Hakodate		29

Total coverage 5019.0miles

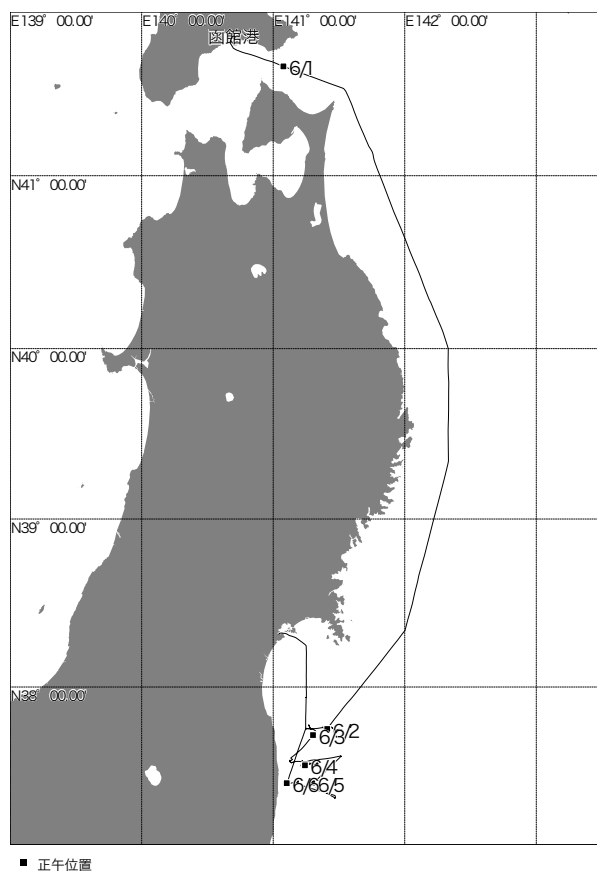


Fig.1.1: Noon Position (Leg1)

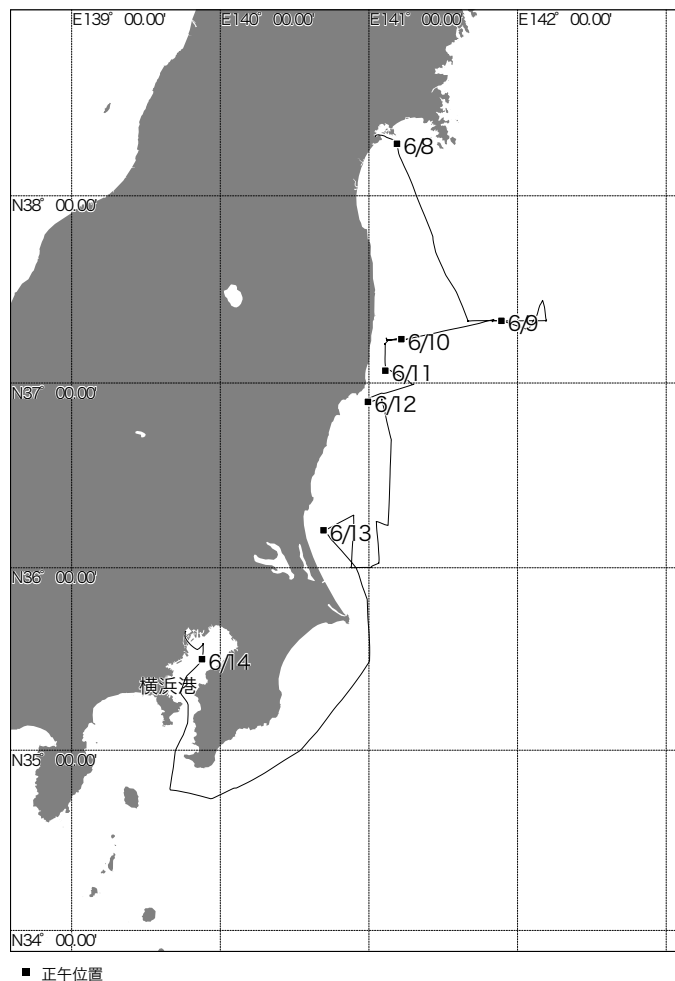


Fig.1.2: Noon Position (Leg2)

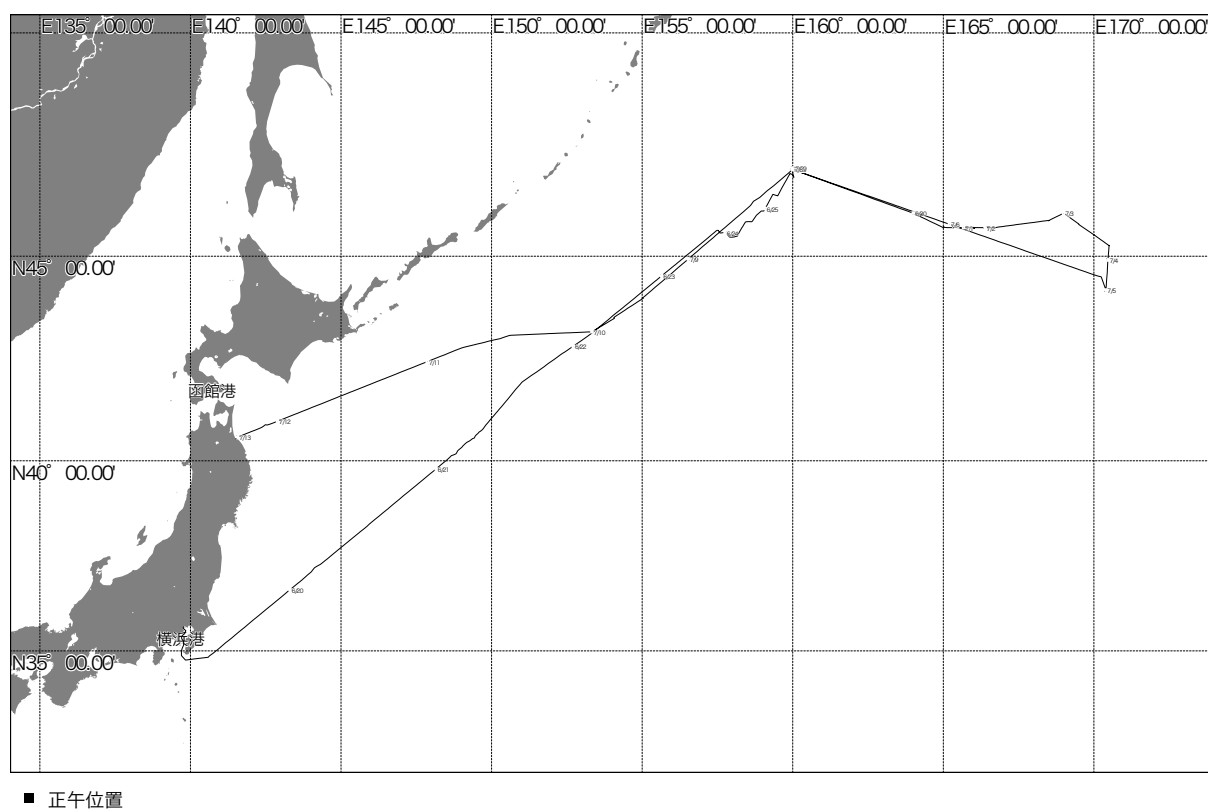


Fig.1.3: Noon Position (Leg3)

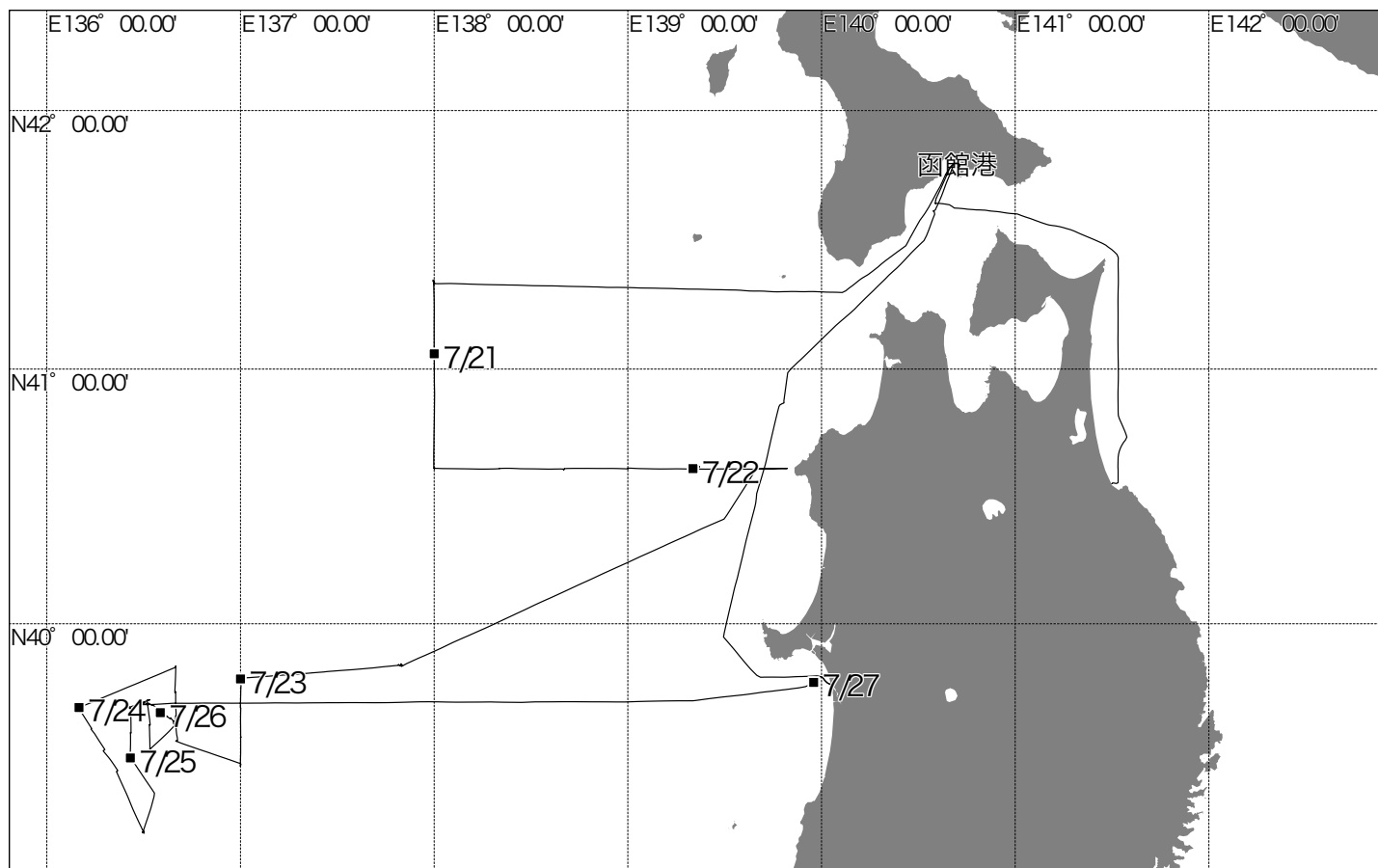


Fig.1.4: Noon Position (Leg4,5,6)

2. Vessel Personnel

Crew:	Captain: Associate Professor Shogo Takagi	And 31 persons
Leg1		
Research Staff:	Associate Professor (Laboratory of Marine Environment and Resource Sensing, Hokkaido University)	Toru Hirawake
	Associate Professor (Laboratory of Marine Biodiversity, Hokkaido University)	Atsushi Yamaguchi
	Associate Professor (Faculty of Environmental Earth Science, Hokkaido University)	Yutaka Watanabe
	Professor (Tokyo University of Marine Science and Technology)	Takashi Ishimaru
	Researcher (Tokyo University of Marine Science and Technology)	Kaori Matsumoto
	Postdoctoral Fellow (Tokyo University of Marine Science and Technology)	Atsushi Kubo
	Technical staff (Tokyo University of Marine Science and Technology)	Yukari Ito
	Visiting Professor (Tokai University)	Yoshihisa Kato
	Associate Professor (Fukushima University)	Toshihiro Wada
	Researcher (National Institute of Radiological Sciences)	Miho Fukuda

Graduate Student: 10 persons

Under Graduate Student: 7 persons

Leg2

Research Staff:	Associate Professor (Laboratory of Marine Environment and Resource Sensing, Hokkaido University)	Toru Hirawake
	Associate Professor (Laboratory of Marine Biodiversity, Hokkaido University)	Atsushi Yamaguchi

Associate Professor (Faculty of Environmental Earth Science, Hokkaido University)

Yutaka Watanabe

Professor (Tokyo University of Marine Science and Technology)

Takashi Ishimaru

Researcher (Tokyo University of Marine Science and Technology)

Kaori Matsumoto

Assistant Professor (Tokyo University of Marine Science and Technology)

Naho Miyazaki

Visiting Professor (Tokai University)

Yoshihisa Kato

Associate Professor (Nagoya University)

Yoshihisa Mino

Publicist (Fukushima University)

Kouji Keitoku

Graduate Student: 3 persons

Under Graduate Student: 2 persons

Leg3

Research Staff: Associate Professor (Laboratory of Marine Environmental Science, Hokkaido University)

Hiromichi Ueno

Associate Professor (Laboratory of Marine Environment and Resource Sensing, Hokkaido University)

Toru Hirawake

Associate Professor (Laboratory of Marine Biodiversity, Hokkaido University)

Atsushi Yamaguchi

Associate Professor (Faculty of Environmental Earth Science, Hokkaido University)

Yutaka Watanabe

Associate Professor (Laboratory of Marine Environmental Science, Hokkaido University)

Atsushi Ooki

Associate Professor (Institute of low temperature Science, Hokkaido University)

Jun Nishioka

Technical Assistant (Institute of low temperature Science, Hokkaido University)

Aiko Murayama

Associate Professor (Nagoya University)

Yoshihisa Mino

Researcher (The University of Tokyo)

Yudai Tanaka

Researcher (Japan Agency for Marine-Earth Science and Technology)

Tetsuichi Fujiki

Researcher (Japan Agency for Marine-Earth Science and Technology)

Kimoto Katsunori

Researcher (Japan Agency for Marine-Earth Science and Technology)

Minoru Kitamura

Researcher (Japan Agency for Marine-Earth Science and Technology)

Masahide Wakita

Researcher (Japan Agency for Marine-Earth Science and Technology)

Yoshiyuki Nakano

Researcher (Japan Agency for Marine-Earth Science and Technology)

Keisuke Shimizu

Researcher (Japan Agency for Marine-Earth Science and Technology)

Bingzhang Chen

Technician (Marin Works Japan LTD)

Masaki Furuhata

Technician (Marin Works Japan LTD)

Daiki Atomura

Postdoctoral Fellow: 1 person

Graduate Student: 5 persons

Under Graduate Student: 6 persons

Leg4

Research Staff: Associate Professor (Laboratory of Marine Environmental Science, Hokkaido University)

Hiromichi Ueno

Associate Professor (Laboratory of Marine Environment and Resource Sensing, Hokkaido University)

Toru Hirawake

Associate Professor (Kyushu University)

Tomoharu Senjyu

Researcher (Japan Agency for Marine-Earth Science and Technology)

Yuishiro Kumamoto

Researcher (Japan Agency for Marine-Earth Science and Technology)

Kazuhiko Matsumoto

Researcher (Japan Agency for Marine-Earth Science and Technology)

Kosei Sasaoka

Researcher (National Institute for Environmental Studies)

Takafumi Aramaki

Researcher (National Institute for Environmental Studies)

Shinichiro Nakaoka

Postdoctoral Fellow: 1 person

Graduate Student: 3 persons

Under Graduate Student: 6 persons

Leg5

Research Staff: Associate Professor (Laboratory of Marine Environmental Science, Hokkaido University)

Yutaka Isoda

Associate Professor (Kyushu University)

Tomoharu Senjyu

Researcher (Japan Agency for Marine-Earth Science and Technology)

Yuishiro Kumamoto

Researcher (Japan Agency for Marine-Earth Science and Technology)

Kazuhiko Matsumoto

Researcher (Japan Agency for Marine-Earth Science and Technology)

Kosei Sasaoka

Researcher (National Institute for Environmental Studies)

Takafumi Aramaki

Under Graduate Student: 3 persons

Leg6

Research Staff: Associate Professor (Laboratory of Marine Environmental Science, Hokkaido University)

Yutaka Isoda

Under Graduate Student: 3 persons