



# HOKKAIDO UNIVERSITY

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| Title            | 7 THE "OSHORO MARU" CRUISE 021 TO THE OGASAWARA ISLAND IN DECEMBER 2015           |
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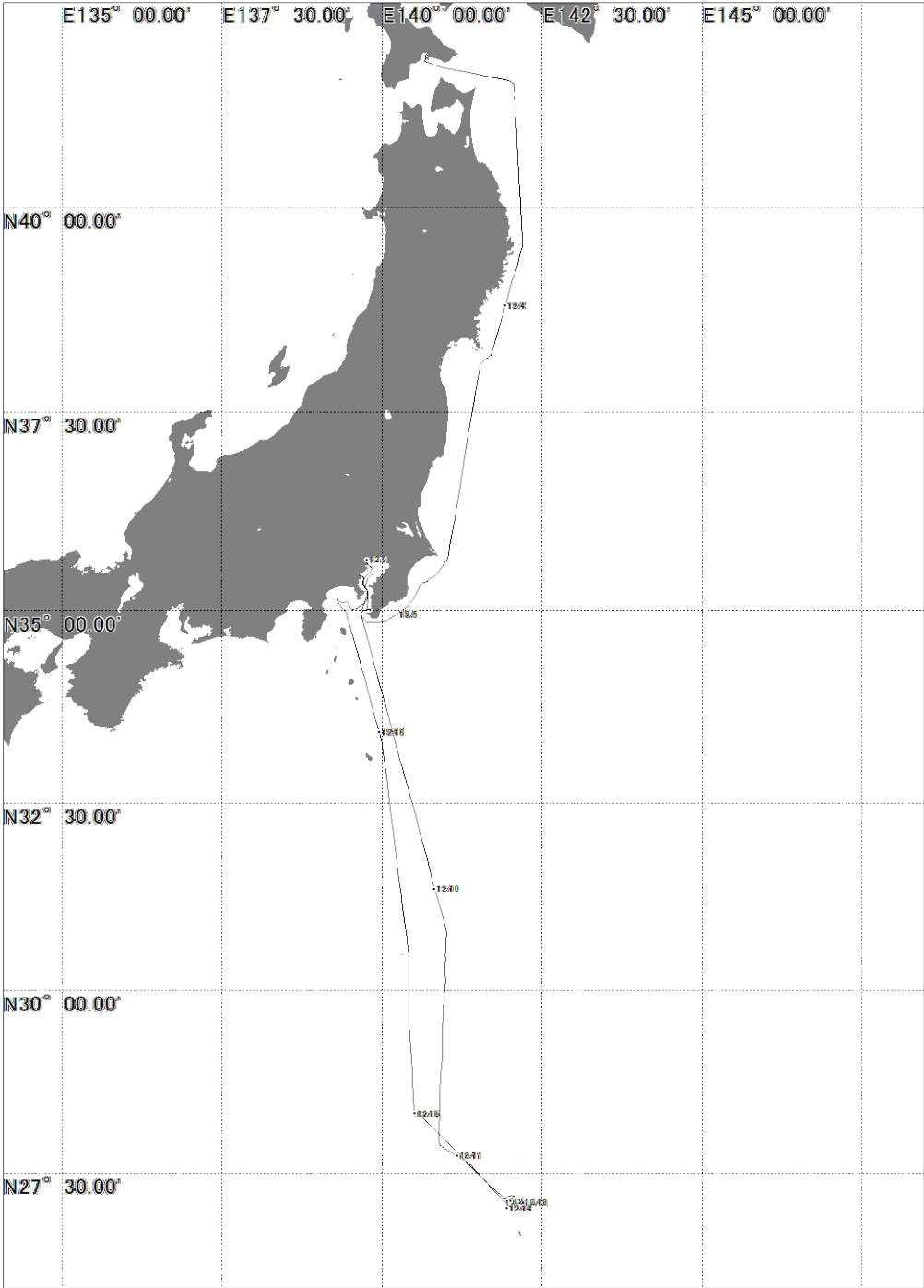


**THE "OSHORU MARU" CRUISE 021  
TO THE OGASAWARA ISLANDS  
IN DECEMBER 2015**

# 1.Cruise Itinerary

Cruise 021

|                                                                                          |               |
|------------------------------------------------------------------------------------------|---------------|
| Departure from Hakodate (Leg1)                                                           | Dec. 03, 2015 |
| Arrival at Tokyo                                                                         | 06            |
| Departure from Tokyo (Leg2)                                                              | 09            |
| Start vertical long-line research(OSVL1501), hydrographic research and arrival at Futami | 12            |
| Departure from Futami (Leg3)                                                             | 14            |
| Finish hydrographic research and vertical long-line research (OSVL1503)                  | 15            |
| Arrival at Yokohama                                                                      | 17            |
| Total coverage 1752.4 miles                                                              |               |



■ 正午位置

Fig.-1: Noon Position

## 2. Vessel Personnel

|                            |                         |                                                                              |                        |
|----------------------------|-------------------------|------------------------------------------------------------------------------|------------------------|
| Crew:                      | Captain:                | Associate Professor                                                          | Shogo Takagi           |
|                            |                         |                                                                              | And 30 persons         |
| Research Staff:            | Professor               | (Laboratory of Marine Environment and Resource Sensing, Hokkaido University) |                        |
|                            |                         |                                                                              | Leg1 Tohru Mukai       |
| Under Graduate instructor: | Professor               | (Department of Marine Science and Resources, Nihon University)               |                        |
|                            |                         |                                                                              | Leg2,3 Takahito Kojima |
|                            |                         | Professor (Teikyo University of Science and Technology)                      |                        |
|                            |                         |                                                                              | Leg2,3 Kyoichi Mori    |
|                            | Teaching Assistant:     |                                                                              | Leg2,3 4 persons       |
|                            | Under Graduate Student: |                                                                              | Leg2,3 54 persons      |