doi : 10.17596/0002918

Natsushima Cruise Report

NT14-10

Kumano-nada

June.15,2014 -June.22,2014

Japan Agency for Marine-Earth Science and Technology

(JAMSTEC)

CONTENTS

1. Cruise Information 3

2. Researchers 3

3. Background 4

4. Operation list 4

5. Dive Summary 4

5.1 Dive#1659 & Dive#1660 on June. 17, 2014: Test dive and Training. 4

5.2 Dive#1661 on June. 18, 2014: Test dive and Training. 4

5.3 Dive#1662 on June. 19, 2014: The failure part confirmation of DONET1 4

5.4 Dive#1663 on June. 20, 2014: The failure part confirmation of DONET1 4

6. Notice on Using 5

1. Cruise Information

- Cruise ID: NT14-10
- Name of vessel: R/V Natsushima
- Title of the cruise: The failure part confirmation of DONET1
  Test dives of Hyper-Dolphin 3000 and training.
- Cruise period June 15 – June 22, 2014
- Ports of call JAMSTEC Yokosuka – Sendai Port
- Research area Kumano Nada, North part of Nankai trough, Suruga Bay
- Research Map

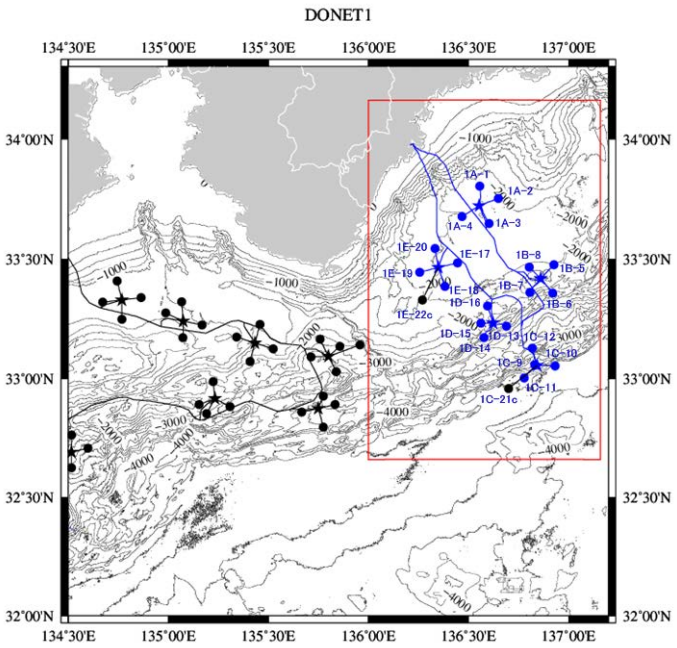

Figure 1 Research area and observatory site of DONET1 in Kumano Nada

2. Researchers

● Chief scientist [Affiliation]	Takashi YOKOBIKI	[JAMSTEC]
● Representative of the Science Party [Affiliation]	Shuichi Kodaira	[JAMSTEC]
● Science party [Affiliation]	Yoshinobu Nanbu	[JAMSTEC]
	Mitsuru Torigoe	[JAMSTEC]
	Jin-Kyu Choi	[JAMSTEC]
	Takeshi Ohki	[JAMSTEC]
	Hideki Sezoko	[Nihon Marine Enterprise]
	Kazuo Endo	[Impulse]

3. Background

DONET1 has been operating with 5 science node and 20 observatory in Kumano-nada since 2011. In May 30, the data acquisition in Area E was interrupted by insulation fault between the Branching Unit E to Node E. This cruise was carried out to detect the fault point.

4. Operation list

Table 1 List of operation

Date	Area	Dive No.	Operation
15.June, 2014	JAMSTEC Yokosuka		Departure
16.June, 2014	Suruga Bay		The Umbilical Cable maintenance
17.June, 2014	Kumano Nada	Dive#1659 Dive#1660	Test dive and training
18.June, 2014	Suruga Bay	Dive#1661	Test dive and training
19.June, 2014	Kumano Nada	Dive#1662	The failure part confirmation of DONET1
20.June, 2014		Dive#1663	The failure part confirmation of DONET1
21.June, 2014			Shift
22.June, 2014	Sendai Port		Arrival

5. Dive Summary

5.1 Dive#1659 & Dive#1660 on June. 17, 2014: Test dive and Training.

This dives were conducted for check of Hyper Dolphin 3000 and training of operation.

5.2 Dive#1661 on June. 18, 2014: Test dive and Training.

This dive was conducted for check of Hyper Dolphin 3000 and training of operation.

5.3 Dive#1662 on June. 19, 2014: The failure part confirmation of DONET1

This dive was conducted to confirm the failure part in DONET1. Node E was disconnected from Termination Unit E (TU E), and a loop-back connector was connected to TU E to check the submarine cable and TU E. After the inspection from the Furue landing station, the loop-back connector was disconnected and Node E was connected to TU E again.

5.4 Dive#1663 on June. 20, 2014: The failure part confirmation of DONET1

In this dive, the visual inspection of Node E and operator training were carried out.

6. Notice on Using

This cruise report is a preliminary documentation as of the end of the cruise.
This report may not be corrected even if changes on contents (i.e. taxonomic classifications) may be found after its publication. This report may also be changed without notice. Data on this cruise report may be raw or unprocessed. If you are going to use or refer to the data written on this report, please ask the Chief Scientist for latest information.
Users of data or results on this cruise report are requested to submit their results to the Data Management Group of JAMSTEC.