

Report of
Japan Marine Science and Technology Center
(JAMSTECR)

No.33

March 1996

CONTENTS

1. On Internal Waves in a Two-Layer Ocean (I)	1
Koki MIDORIKAWA	Naoyuki SAKAKIDA
2. Summer Heat Balance in Arctic Ocean (1)	7
—Results from the IAOE '91 Cruise—	
Toru NAKAMURA	
3. Data Transmission Conditions from the Arctic Ocean using IOEB	17
Kiyoshi HATAKEYAMA	Toru NAKAMURA
Takatoshi TAKIZAWA	Noboru KOYAMA
Susumu HONJO	Richard KRISHFIELD
4. Study of Universal Decompression Table for Saturation Dives	27
—Second Report : A Comparison of the Stage and Linear Decompressions—	
Fumiro SHIDARA	Yasushi TAYA
Motohiko MOHRI	Yu-Chong LIN
5. Cultivations of several microorganisms under high hydrostatic pressure using the Deep-sea Baro/Thermophile Collecting and Cultivating System	37
Tetsuya INADA	Kiyoshi TAIRA
Toshio KIKUMA	Kimio SUZUKI
Masanori KYO	Kazuhiro MORIYA
Tetsushi KOMATSU	
6. The Distribution of Phytoplankton and Pigment in the Equatorial Pacific	45
Kazuhiro MATSUMOTO	Ichio ASANUMA
Takeshi KAWANO	Michio AOYAMA
7. Modeling of the Flow Induced by Reef Crest on the Water Circulation around Kabira Reef	55
Hitoshi NAKAMURA	Kimiaki KUDO
8. Development of an Underwater Respiratory Monitoring System	65
Mineo OKAMOTO	Hitoshi YAMAGUCHI
Kenji DEMURA	Motohiko MOHRI
9. Water Masses and Current Structure Between Palau and Mindanao	77
Yuji KASHINO	Humio MITSUDERA
Michio AOYAMA	Takeshi KAWANO
Hidetoshi WATANABE	Yoshifumi KURODA
Kentaro ANDO	
10. Velocity Measurements at the Barrow Canyon	93
Humio MITSUDERA	Kiyoshi HATAKEYAMA
Yuji KASHINO	Yasunori SASAKI
Tom WEINGARTNER	Vladimir K. PAVLOV

11. Variabilities of the North Pacific Subtropical
Mode Water over the Izu-Ogasawara Ridge 111
Yasushi YOSHIKAWA Kentaro ANDO
Humio MITSUDERA Kimio HANAWA