

Report of

Japan Marine Science and Technology Center

(JAMSTECR)

No.32

September 1995

CONTENTS

1. The Characteristics of the CTD Pressure Sensors	1
Takeshi KAWANO Kentaro ANDO	
Michio AOYAMA	
2. The Properties of A Protease Activated by High Pressure from <i>Sporosarcina</i> sp. strain DSK25 Isolated from Deep-sea Sediment	7
Chiaki KATO Seiko SUZUKI	
Shuichi HATA Takashi ITO	
Koki HORIKOSHI	
3. On the Phenomenon occurred in Shiome and Two Layer Ocean Folktale on the Sea and Fishery	15
Koki MIDORIKAWA	
4. Design for Subsurface Mooring with an Acoustic Doppler Current Profiler and Its Motions in the Open Sea	27
Atsuo ITO Koichi TAKAO	
Kunio YONEYAMA Kentaro ANDO	
Takeshi KAWANO Yoshifumi KURODA	
5. On the Cyclonic Eddy in the Ocean (II)	39
Koki MIDORIKAWA Junji KUROYAMA	
6. Microwave Radiative Transfer Model of Snow Layer on Sea Ice	47
Yasunori SASAKI	
7. Estimation of Microwave Properties of Snow Layer with Microwave Radiative Transfer Model	57
Yasunori SASAKI	
8. Microwave Model for Observation of Water Vapor and Cloud Water with Two Frequency Microwave Radiometry	63
Yasunori SASAKI Gen'ichi NAITO	
Mitsunori TANABE	
9. Microwave Radiometric Observation of Tropical Rainfall	73
Yasunori SASAKI Gen'ichi NAITO	
Kazuhiko MIYAMOTO	
10. Improvement of Ground Resolution in Microwave Radiometry	81
Yasunori SASAKI	
11. Ice Thickness Change Rate of the Arctic Sea Ice	95
Yasunori SASAKI Shinya KAKUTA	
Yoshitaka MURAJI	
12. Structure and Thermal Conductivity of Marginal Sea Ice in the Arctic Ocean	105
Yasunori SASAKI Hideomi NAKAMURA	
Kiyoshi HATAKEYAMA Toru NAKAMURA	
Shinya KAKUTA	

13. Observation of Momentum and Heat Transfers between Ocean and Atmosphere in the Arctic Marginal Sea, Chukchi Sea	113
Yasunori SASAKI	Gen'ichi NAITO
Takeshi OCHIAI	
14. The Basic Experiment of the Realtime Differential GPS Positioning System for UROV Support Vessel	123
Satoshi TSUKIOKA	Taro AOKI
Takafumi OHARA	
15. The Water Masses at the Subsurface and Intermediate Layers in the Southernmost Philippine Sea : KAIYO-WOCE Observation in February 1994	133
Yuji KASHINO	Michio AOYAMA
Takeshi KAWANO	Kentaro ANDO
Kei MUNAYAMA	Syaefudin
Yudi Anantasena	Hidetoshi WATANABE