

CONTENTS

Foreword.....	<i>Takao HOSHIAI and Mitsuo FUKUCHI</i> ...	i
Choanoflagellates in the Antarctic Ocean, with special reference to <i>Parvicorbicula socialis</i> (MEUNIER) DEFLANDRE.		
.....	<i>Shigemitsu HARA and Eiichiro TANOUE</i> ...	1
Taxonomy and distribution of some <i>Ceratium</i> species in the Antarctic Ocean.....	<i>Tsunemi OKAMOTO and Eiji TAKAHASHI</i> ...	14
Distribution of diatoms in a small area in the Indian sector of the Antarctic.		
.....	<i>Akito KAWAMURA and Tokuro ICHIKAWA</i> ...	25
Distribution of nano- and microplankton in the Indian sector of the Southern Ocean.....	<i>Hiroshi SASAKI</i> ...	38
Seasonal change of chlorophyll <i>a</i> under fast ice in Lützow-Holm Bay, Antarctica.		
.....	<i>Mitsuo FUKUCHI, Atsushi TANIMURA and Hideaki OHTSUKA</i> ...	51
Formation and retention of phytoplankton assembly in the Kuroshio front (extended abstract).....	<i>Tamiji YAMAMOTO</i> ...	60
Microzooplankton biomass in the Arctic and subarctic Pacific Ocean in summer.....	<i>Akira TANIGUCHI</i> ...	63
Occurrence and age composition of <i>Paralabidocera antarctica</i> (Calanoida, Copepoda) under the fast ice near Syowa Station, Antarctica.		
.....	<i>Atsushi TANIMURA, Mitsuo FUKUCHI and Hideaki OHTSUKA</i> ...	81
Chemical and biological characteristics of fecal pellets of <i>Euphausia superbe</i> DANA (extended abstract).		
.....	<i>Eiichiro TANOUE and Shigemitsu HARA</i> ...	87
Aspects of the roles of squid in food chains of the Antarctic marine ecosystems (extended abstract).		
.....	<i>Takahisa NEMOTO, Muneo OKIYAMA and Masanori TAKAHASHI</i> ...	89
Gill arches of fishes of the suborder Notothenioidei (Pisces, Perciformes).		
.....	<i>Tetsuo IWAMI and Tokiharu ABE</i> ...	93
Rearing of Antarctic marine organisms in Japan (extended abstract).		
.....	<i>Shigeru SAKAKIBARA, Teruo TOBAYAMA and Takao HOSHIAI</i> ...	103
Distribution of carnivorous benthic invertebrate in the northeastern part of Lützow-Holm Bay, Antarctica		
.....	<i>Hideki NUMANAMI, Masaya KOSAKA, Yasuhiko NAITO and Takao HOSHIAI</i> ...	105
Culture of an Antarctic seaweed, <i>Phyllophora antarctica</i> (Phyllophoraceae, Rhodophyceae).....	<i>Masao OHNO</i> ...	112
Adélie penguin census in the 1981–82 and 1982–83 breeding seasons near Syowa Station, Antarctica.		
.....	<i>Takao HOSHIAI, Tatsuo SWEDA and Atsushi TANIMURA</i> ...	117

Significance of 55°S in the “Indian Ocean Sanctuary of Whales” in relation to the distribution of marine mammals.	Masaharu NISHIWAKI . . .	122
¹⁵ N abundance in the Dry Valley area, south Victoria Land, Antarctica: Eco-physiological implications of microorganisms.	Eitaro WADA, Reiko IMAIZUMI, Shyu NAKAYA and Tetsuya TORII . . .	130
Bioaccumulation of DDTs and PCBs in the southern minke whale (<i>Balaenoptera acutorostrata</i>).	Shinsuke TANABE, Toru MORI and Ryo TATSUKAWA . . .	140
Fate of DDTs, PCBs and chlordane compounds in the Antarctic marine ecosystem.	Hideo HIDAKA, Shinsuke TANABE, Masahide KAWANO and Ryo TATSUKAWA . . .	151
Distribution and abundance of soil bacteria in the vicinity of Syowa Station in Antarctica, with special reference to habitat conditions.	Mitsuo YAMANAKA and Hisanori KAGAWA . . .	162