



Title	表紙・目次
Citation	Memoirs of the Faculty of Fisheries Sciences, Hokkaido University, 60
Issue Date	2021-12
Doc URL	<a href="http://hdl.handle.net/2115/83713">http://hdl.handle.net/2115/83713</a>
Type	bulletin (other)
File Information	mem.fish.60.contents.pdf



[Instructions for use](#)

ISSN 2435-3361

MEMOIRS  
OF THE  
FACULTY  
OF  
FISHERIES SCIENCES,  
HOKKAIDO UNIVERSITY

**Vol. 60**  
**(Serial no. 85)**

FORMERLY  
MEMOIRS OF THE GRADUATE SCHOOL OF FISHERIES SCIENCES,  
HOKKAIDO UNIVERSITY

FACULTY OF FISHERIES SCIENCES,  
HOKKAIDO UNIVERSITY  
HAKODATE, JAPAN  
December 2021

MEMOIRS OF THE FACULTY OF FISHERIES SCIENCES, HOKKAIDO UNIVERSITY

Vol. 60 December 2021

CONTENTS

Hiroshi ISHIZAKI, Hiromichi IGARASHI, Yoriko ARAI, Masahumi KAMACHI, Yohichi ISHIKAWA  
and Sei-Ichi SAITOH: APPLICATION OF A HISTOGRAM-BASED  
METHOD FOR FRONT DETECTION TO THE SEA SURFACE TEM-  
PERATURE AND CHLOROPHYLL-A DATA BY 'HIMAWARI' AND  
'SHIKISAI' SATELLITE — IMPORTANCE OF INITIAL DATA  
SMOOTHING — . . . . . 1

Junki KOBAYASHI, Yohei MIYASHITA, Hiroki DAIDOU, Sayaka ODA, Kuniaki TANAKA, Kohei  
MATSUNO, Atsushi YAMAGUCHI and Ichiro IMAI: SEASONAL FLUCTU-  
ATIONS OF PHYTOPLANKTON IN LAKE ONUMA AND KONU-  
MA, NANAE, HOKKAIDO . . . . . 33

---

Publication Committee  
FACULTY OF FISHERIES SCIENCES,  
HOKKAIDO UNIVERSITY  
3-1-1, Minato-cho, Hakodate  
041-8611, Japan  
TEL (0138)-40-5513

---

---

Printed by  
SASAKI PRINTING & PUBLISHING Co. Ltd.  
8-45, Nishimachi, Rokuchonome, Wakabayashi-ku  
Sendai 984-0011, Japan  
TEL (022)-288-5555

---