

**Journal  
of  
Northwest Atlantic  
Fishery Science**



**Volume 1  
1980**

Northwest Atlantic Fisheries Organization  
Dartmouth, Canada



# Journal of Northwest Atlantic Fishery Science



Volume 1  
December, 1980

Northwest Atlantic Fisheries Organization  
Dartmouth, Canada



# **Journal of Northwest Atlantic Fishery Science**

The ICNAF Research Bulletin, initiated by the Standing Committee on Research and Statistics of the International Commission for the Northwest Atlantic Fisheries in 1964, was published annually until 1979, when ICNAF ceased to exist and was replaced by the Northwest Atlantic Fisheries Organization (NAFO). Thus, publication of the ICNAF Research Bulletin terminated with the issue of Number 14 in September 1979.

The Scientific Council of NAFO recognized the need for continuing the publication of a primary scientific journal to provide a medium for the dissemination of the results of investigations on various aspects of the living marine resources of the Northwest Atlantic. It was also recognized that more frequent issues are required than was the case with the ICNAF Research Bulletin, the ultimate aim being 3 or 4 issues per annual volume. Although this volume (for 1980) appears as a single issue, Volume 2 will be published in 2 parts, the first to be issued in June 1981 and the second in December 1981.

3 December 1980

V. M. Hodder, Editor  
Northwest Atlantic Fisheries Organization  
P. O. Box 638  
Dartmouth, Nova Scotia  
Canada B2Y 3Y9



## Contents

TEMPLEMAN, Wilfred. Incidence of Subcaudal Melanophores in Pre-extrusion Larvae of Redfish Species in the Newfoundland-Labrador Area .....	7
MAYO, R. K. Exploitation of Redfish, <i>Sebastes marinus</i> (L.) in the Gulf of Maine-Georges Bank Region, with Particular Reference to the 1971 Year-Class .....	21
BOWERING, W. R. Fecundity of Greenland Halibut, <i>Reinhardtius hippoglossoides</i> (Walbaum), from Southern Labrador and Southeastern Gulf of St. Lawrence .....	39
SCOTT, J. S. Occurrence of Pollock, <i>Pollachius virens</i> , and Sand Lance, <i>Ammodytes</i> sp., Larvae in the Bay of Fundy .....	45
BEACHAM, Terry D., and Stephen J. NEPSZY. Some Aspects of the Biology of White Hake, <i>Urophycis tenuis</i> , in the Southern Gulf of St. Lawrence .....	49
JENSEN, J. Moller, and W. H. LEAR. Atlantic Salmon Caught in the Irminger Sea and at East Greenland .....	55
HUNT, J. J. Guidelines for Age Determination of Silver Hake, <i>Merluccius bilinearis</i> , Using Otoliths .....	65
CARROTHERS, P. J. G. Estimation of Trawl Door Spread from Wing Spread .....	81
POSGAY, J. A., and R. R. MARAK. The MARMAP Bongo Zooplankton Samplers .....	91
HENNEMUTH, R. C., J. E. PALMER, and B. E. BROWN. A Statistical Description of Recruitment in Eighteen Selected Fish Stocks .....	101

