

NORTHWEST ATLANTIC FISHERIES ORGANIZATION



Scientific Council Studies Number 21

Collection of Papers Related to Northern Cod
and Seals in NAFO Divisions 2J and 3KL

Papers Presented to the Scientific Council – 1993

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Foreword

In accordance with its mandate to disseminate information on fisheries research to the scientific community, the Scientific Council of NAFO publishes the *Journal of Northwest Atlantic Fishery Science*, which contains peer-reviewed primary papers and notes on original research, and *NAFO Scientific Council Studies*, which contains review papers of topical interest and importance.

At its meeting during 2–16 June 1993, the Scientific Council noted that a complete scientific review of results from the Northern Cod Science Program of Canada was scheduled for late-1994, and the coordinator of the Program, J. S. Campbell, should be invited to consider a NAFO publication for a collection of papers. The Council noted a group of papers dealing with Northern Cod presented at its June 1993 meeting appeared suitable for a single publication. At its meeting during 7–10 September 1993, the Council expressed its appreciation to J. S. Campbell for accepting this task, and the Secretariat undertook to complete the publication by the end of 1994.

This issue of *NAFO Scientific Council Studies* contains miscellaneous contributions nominated for publication by J. S. Campbell from research documents presented to the Scientific Council meetings. The 20 previous issues of *NAFO Scientific Council Studies* are listed on the inside back cover of this volume.

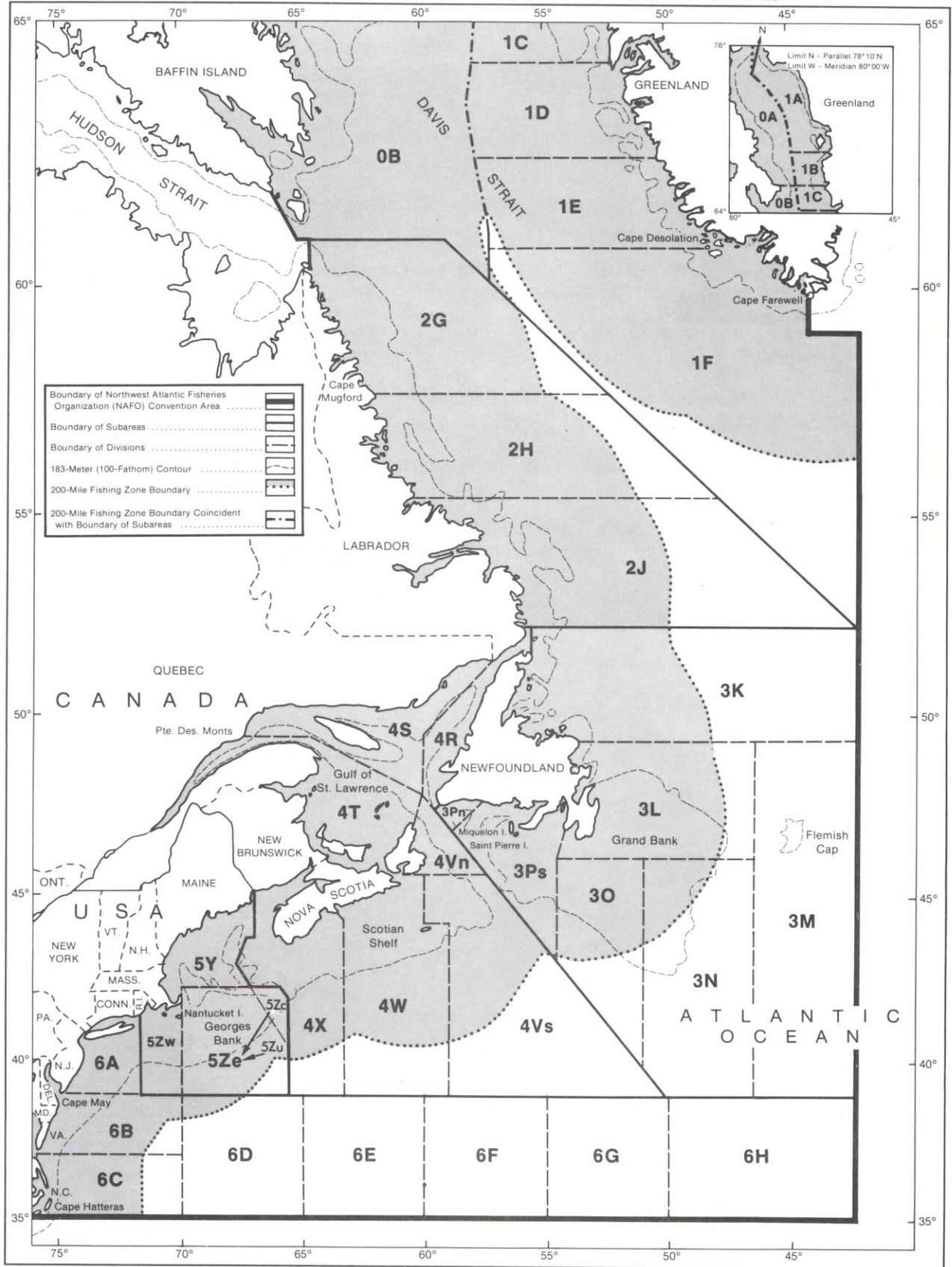
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MAP ILLUSTRATING NAFO'S CONVENTION AREA AND 200-MILE FISHING ZONE BOUNDARIES



Introduction

This issue of *NAFO Scientific Council Studies* contains some of the papers which were presented at the Scientific Council Meeting held at NAFO headquarters in Dartmouth, Nova Scotia, Canada, 2–16 June 1993. At the meeting, 23 SCR documents were tabled which dealt with aspects of the northern cod (the cod stock in NAFO Divisions 2J and 3KL) or its environment. Most of the work, on which these papers were based, was funded, wholly or in part, under the auspices of the Northern Cod Science Program (NCSP).

The first paper in this issue is an exception. This manuscript was submitted by Dr Wilfred Templeman in April 1990 prior to his death. We are most pleased to be able to include the paper in this issue.

The NCSP is an intensive five-year fisheries science effort (1990/91 – 1994/95) established to learn more about the basic biology and environment of the northern cod stock. Funded through the Government of Canada's Atlantic Fisheries Adjustment Program, the NCSP committed \$ 28 million over the five-year period. The Program is administered by the Department of Fisheries and Oceans (DFO), Newfoundland Region, consists of 25 projects, and involves about 50 fisheries and oceanographic researchers both at DFO and at universities in Atlantic Canada. Studies are conducted in the areas of cod ecosystems dynamics and research technology development. In broad terms, the aim of the Program is to provide better scientific advice, to advance the technology used in cod research and stock assessment, to enhance scientific collaboration, and to improve communications with DFO's client groups.

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