

# **PUBLICATIONS**

## **1981/83**

**Fisheries Research Branch  
Pacific Region**



Fisheries  
and Oceans

Pêches  
et Océans

**PUBLICATIONS LIST**

**1981-1983**

**Fisheries Research Branch  
Pacific Biological Station  
Nanaimo, B. C. V9R 5K6**

## INTRODUCTION

Fisheries Research Branch staff are located at several facilities throughout the province. Headquarters for the branch is the Pacific Biological Station in Nanaimo. Other facilities include the West Vancouver Laboratory, the Sweltzer Creek Laboratory at Cultus Lake, the Rosewall Creek Experimental Hatchery and a fish farm on Brandon Island in Departure Bay. Staff are also located in Prince Rupert and at the Department of Fisheries and Oceans regional headquarters in Vancouver.

A total of 200 scientists, biologists and technicians conduct research in eight major areas to assist in the management and enhancement of the fishery resource of the Pacific Coast. Studies are underway in the following sections: Salmon and International, Herring, Groundfish, Invertebrates, Fish Health and Parasitology, Recruitment Mechanisms, and Carrying Capacity. Extensive scientific support is provided in the areas of ship operations, administration, library, personnel, facilities management and operations, computers, publications, records and electronics.

The following is a listing of all scientific publications by the staff of the Fisheries Research Branch for 1981, 1982, and 1983. A previous publication in 1980 listed publications from 1976 to 1980. Prior to 1976, publications were summarized in Annual Reports. In the future, it is expected that lists will be published every two years.

For simplicity, publications for each year have been listed in only two categories. "Reviewed publications" are publications that are reviewed by recognized world authorities on the particular subject and are published in recognized scientific or equivalent journals. "Other publications" usually receive peer review, but are not published in scientific journals, symposia proceedings or books. All publications are available from the authors. Please consult the list of scientific staff included in this publication for the location and mailing address of the authors.

R. J. Beamish  
August 1987

SCIENTIFIC STAFF OF THE FISHERIES RESEARCH BRANCH  
PACIFIC AND YUKON REGION

Dr. R. J. Beamish	Director
A. Steele	Director's Executive Assistant
K. Francis	Technology Transfer Officer

NAME	DISCIPLINE
Dr. D. F. Alderdice	Water quality, salmon incubation
R. Bams	Salmonid incubation systems
Dr. T. Beacham	Stock assessment, population dynamics, pink and chum salmon
Dr. R. J. Beamish (Director)	Stock assessments, aging techniques, lampreys
Dr. G. Bell	Diseases of fishes
Dr. F. Bernard (Section Head)	Stock assessments, salmon, molluscan taxonomy
Dr. M. Bigg	Marine mammals
Dr. I. Birtwell <sup>1</sup>	Pollution and fish habitat research
Dr. D. Blackburn	Stock assessment, salmon
Dr. N. Bourne	Oysters, clams and scallops, aquaculture
J. A. Boutillier	Stock assessment and biology of shrimp and prawns
Dr. S. Bower	Diseases of marine invertebrates
T. J. Brown	Coastal ecology
A. Cass	Stock assessments and ecology of lingcod
Dr. C. Clarke	Growth and smolting in salmonids, salmonid aquaculture
Dr. E. Donaldson <sup>1</sup> (Section Head)	Controlled reproduction, stress and salmonid culture
H. Dye <sup>1</sup>	Biochemistry, hormone analysis
Dr. I. Evelyn	Diseases of fishes
J. Fargo	Stock assessments and biology of flatfish
Dr. U. Fagerlund <sup>1</sup>	Effects of stress on fish
R. Foucher	Biology and recruitment mechanisms in groundfish

NAME	DISCIPLINE
J. Fulton	Invertebrate statistics, marine plankton
T. Gjernes	Hydroacoustics, stock assessment of salmon, sportfish
R. Gordon <sup>3</sup>	Aquatic toxicology
Dr. C. Groot	Ethology and migration of salmonids
C. Haegele	Stock identification and spawn assessments of herring
V. Haist	Stock assessment herring
Dr. B. Hargreaves	Early sea life of salmon, oceanography
Dr. G. Hartman	Fish-forestry interactions
Dr. D. Hay	Ecology and biology of herring
Dr. M. Healey	Ecology and recruitment mechanisms of salmon
Dr. M. A. Henderson <sup>2</sup>	Stock assessment of salmon
D. Heritage	Clams and mussels, assessment and culture, squid
Dr. D. Higgs <sup>1</sup>	Nutritional requirements of cultured salmonids, smolt quality
Dr. B. Holtby	Fish-forestry interactions
G. Hoskins	Diagnostics of fish diseases
Dr. K. Hyatt	Lake enrichment research - sockeye salmon
Dr. J. Irvine	Oceanography and pollution, stream habitat
Dr. G. S. Jamieson (Section Head)	Crustaceans and molluscs, stock assessment and biology
J. Jensen	Incubation, water quality
Dr. Z. Kabata (Senior Scientist)	Parasitology
R. Kadowaki	Salmon ecology, coho
B. Kask	Estuarine ecology, harpacticoid taxonomy
O. Kennedy	Marine plankton, early sea life of salmon
D. Kieser	Microbiology - Fish Health
Dr. R. Kieser	Hydroacoustic estimation of populations
H. Kreiberg	Herring impoundments
Dr. G. Kruzynski <sup>1</sup>	Habitat interactions research
B. Kuhn	Scientific information salmon stocks
L. Lapi	Population dynamics of salmonids, data bases
B. Leaman	Stock assessment and biology of rockfish
Dr. R. LeBrasseur	Ecology plankton, northern pink stocks
R. Lauzier <sup>1</sup>	River habitats
Dr. C. Levings <sup>1</sup> (Section Head)	Coastal and estuarine habitat
Dr. C. McAllister	Coastal ecology
Dr. J. McBride <sup>1</sup>	Histophysiology and stress in fish
T. McDonald	Parasitology

NAME	DISCIPLINE
Dr. S. Macdonald <sup>1</sup>	Estuarine habitat
G. McFarlane (Section Head)	Stock assessments and biology of hake, sablefish, dogfish, pollock
E. MacIsaac <sup>1</sup>	Limnology
Dr. L. Margolis (Section Head)	Parasitology
J. Markert <sup>1</sup>	Salmonid diet, development of quality control
D. Martens <sup>3</sup>	Aquatic toxicology
B. Morley	Hatchery optimization techniques
J. Morris	Salmon ecology
K. Morton <sup>3</sup>	Zooplankton and fish feeding mechanisms
Dr. I. J. Mulligan	Hydroacoustics, stock identification, fleet dynamics, enhancement analysis
Dr. H. Mundie	Stream enhancement and enrichment
C. Murray	Pink and chum salmon
D. Nagtegaal	Salmon
Dr. D. Noakes	Mathematics
P. Olesiuk	Marine mammals
A. Phillips	Invertebrates
P. Rankin	Lake enrichment
Dr. L. Richards	Non-salmonid sports fishery
Dr. B. Riddell	Genetics of salmonids, salmon assessments
Dr. H. Rogers <sup>1</sup>	Organic chemistry
M. Saunders	Stock assessment and biology of groundfish
Dr. J. Schnute	Mathematical analysis and modelling
J. Schweigert	Ecology and biology of herring
C. Scrivener	Fish-forestry interactions
G. Serbic	Scientific mortality salmon statistics
Dr. J. Servizi <sup>3</sup>	Pollution and fish habitat research
W. Shaw	Stock assessment and biology of groundfish
J. Shelbourn	Physiology of young salmon, growth studies
Dr. C. S. Shirvell	Habitat interaction, stream flows
K. Shortreed <sup>1</sup>	Limnology of enriched lakes
K. Simpson	Stock assessment and biology of coho salmon
Dr. N. Sloan	Invertebrate biology
H. D. Smith <sup>2</sup> (Assoc. Director)	Stock assessment and biology of Babine Lake salmon
S. Spohn	Pollution toxicology
R. Stanley	Groundfish stock assessment and biology, sampling studies

NAME	DISCIPLINE
P. Starr <sup>2</sup>	Stock assessments, salmon
G. Steer	Salmon data
Dr. M. Stocker	Population dynamics, assessments and forecasts of herring
Dr. J. Stockner <sup>1</sup> (Section Head)	Recruitment mechanisms, limnology
R. Tanasichuk	Ecology and biology of herring
J. A. Thomson (Science Coordinator)	Management systems and data bases
G. Traxler	Diseases of fishes
Dr. A. V. Tyler	Groundfish dynamics, multispecies
Dr. M. Waldichuk <sup>1</sup>	Oceanography and pollution
Dr. D. Ware (Section Head)	Feeding energetics and biology of herring
S. J. Westrheim	Stock assessment and biology of Pacific cod
D. Whitaker	Parasitology
Dr. J.N.C. Whyte	Marine plants and shellfish
I. Williams	Salmon production in lakes and streams
K. Wilson <sup>2</sup>	Stock assessments, salmon
R. Withler	Salmon genetics
Dr. C. Wood	Stock assessment, sockeye

#### SCIENTIFIC SUPPORT

W. B. Ross	Chief, Support Services
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**1981**



## REVIEWED PUBLICATIONS - 1981

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