Bibliography of Fish Reproduction 1963-1974
Part 1 of 3 Parts
General, Non-teleostean Species and Teleostei, Abramis to Clinostomus

Edward M. Donaldson

Research and Resource Services
4160 Marine Drive
West Vancouver, British Columbia V7V 1N6

September 1977

Fisheries & Marine Service
Technical Report No. 732

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Les Rapports techniques peuvent être considérés comme des publications complètes. Le titre exact paraîtra au haut du résumé de chaque rapport, qui sera publié dans la revue *Aquatic Sciences and Fisheries Abstracts* et qui figurera dans l'index annuel des publications scientifiques et techniques du Service.

Les numéros 1-456 de cette série ont été publiés à titre de Rapports techniques de l'Office des recherches sur les pêcheries du Canada. Les numéros 457-700, à titre de Rapports techniques de la Direction générale de la recherche et du développement, Service des pêches et de la mer, ministère de l'Environnement. Le nom de la série a été modifié à partir du numéro 701.

La page couverture porte le nom de l'établissement auteur où l'on peut se procurer les rapports sous couverture cartonnée.

•Cover design by Christine Rusk

Fisheries and Marine Service
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BIBLIOGRAPHY OF FISH REPRODUCTION 1963-1974
PART 1 OF 3 PARTS
GENERAL, NON-TELEOSTEAN SPECIES AND TELEOSTEI, ABRAMIS TO CLINOSTOMUS

by

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Cat. no. Fs 97-6/1977-732 ISSN 0701-7626

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ABSTRACT

Donaldson, E.M. 1977. Bibliography of fish reproduction 1963-1974. Part 1 - General, Non-teleostean species and Teleostei, Abramis to Clinostomus. Part 2 - Teleostei, Clupea to Ompok. Part 3 - Teleostei, Oncorhynchus to Zygonectes and Addendum. Fish. Mar. Serv. Tech. Rep. 732 : 572 p.

This bibliography contains references on all aspects of fish reproduction; ovarian and testicular development, ovulation and spermiation, reproductive behavior, spawning, fertilization, fecundity, development of the egg, hatching and early larval development. All types of fish have been included from Agnathans to Teleosteans. The references have been grouped according to the major classification sub-divisions and within each major grouping alphabetically by genus.

Key words: Bibliography, fish, reproduction, ovary, testis, pituitary, ovulation, spawning, fecundity, hatching.

RÉSUMÉ

Donaldson, E. M. 1977. Bibliography of fish reproduction 1963-1974. Part 1 - General, Non-teleostean species and Teleostei, Abramis to Clinostomus. Part 2 - Teleostei, Clupea to Ompok. Part 3 - Teleostei, Oncorhynchus to Zygonectes and Addendum. Fish. Mar. Serv. Tech. Rep. 732: 572 p.

L'aiteur a etabli une bibliographie des références relatives aux aspects suivants de la reproduction des poissons: maturation ovarienne et testiculaire; ovulation et spermiation; comportement reproducteur; frai; fécondation; fécondité; développement embryonnaire; incubation et développement larvaire aux premiers stades. Tous les poissons, des agnathes aux téléostéens, ont été répertoriés. Les références sont groupées selon les grandes subdivisions de la classification et rangées par ordre alphabétique suivant le genre.

Mots-clés: bibliographie, poissons, reproduction, ovaire, testicule, hypophyse, ovulation, frai, fécondité, incubation.

INTRODUCTION

The purpose of this bibliography is to provide a solid body of references on reproduction in fish for use by fisheries scientists and fish culturists in both Canada and the other countries of the world where fish provide a significant source of protein. It is intended that the bibliography will be of particular assistance to those scientists in the developing countries who do not have access to search facilities or the larger bibliographic indices and abstract services at their place of work.

The first collection of references on reproduction in fish was included in "The physiology of the pituitary gland of fishes" by Grace E. Pickford and James W. Atz (1957). This compendium of early work in this field is still heavily used by researchers and was followed in 1964 by FAO Fisheries Biology Technical Paper No. 37 (FB/T37) titled "The pituitary gland and its relation to the reproduction of fishes in nature and in captivity. An annotated bibliography for the years 1956-1963" by James W. Atz and Grace E. Pickford. There has been no thorough bibliography prepared on fish reproduction which brings together research carried out since 1963.

SCOPE

To be of the greatest possible assistance the bibliography has been made as comprehensive as possible. It includes approximately 6600 titles from the year 1963 to the year 1974 inclusive. Papers were added through 1975 and 1976 if they had been published prior to January 1975. The only exception to this rule was the inclusion of papers from the EIFAC Workshop on Controlled Reproduction of Cultivated Fishes which was held in 1973 but not published until 1976 as EIFAC/T25. Titles on all aspects of fish reproduction in all species have been included; ovarian and testicular development, ovulation and spermiation, reproductive behaviour, spawning, fertilization, fecundity, development of the egg, hatching and early larval development. The bibliography provides less comprehensive coverage for events occurring after fertilization than those occurring prior to fertilization.

ARRANGEMENT

Titles have been grouped according to the major classification subdivisions and each major group has been arranged alphabetically according to genus or higher taxonomic classification level where the genus is not indicated. Under each heading the papers have been arranged alphabetically by first author and year of publication according to the sytem used by the

Journal of the Fisheries Research Board of Canada. Journal titles were abbreviated according to the style of the bibliographic source, and citations follow where possible the style of the Journal of the Fisheries Research Board of Canada. While many references were verified (checked against the original) this was not possible for a significant proportion and in a small number of cases the inclusive pagination is not provided. English translations of titles have been used with or without the title in the original language. Where a translation was not available the original language has been used.

References which included research on up to three species were listed separately under each species. References which included more than three species or where specific species are not mentioned in the title or abstract are included under the heading 'general' or if they are known to deal only with, for example, teleosts then they were listed under the heading 'teleostei general'. Where the scientific name of a species has been changed during the time period covered by the bibliography the references were listed according to the name used by the author. References on Indian major carps of unspecified species have been included under the heading "Indian major carp". Appropriate titles have been included under the headings bibliography or review.

To further facilitate use of the bibliography it would have been desirable to produce a subject index of the KWIC (key word in context) or KWOC (key word out of context) type, however, the large number of references in the bibliography made the cost of the computer processing prohibitive.

SOURCES

The following sources were searched for titles:

1. Bibliography of Reproduction, 1963-1975 - Vols. 1-25. Reproduction Research Information Service Limited, 141 Newmarket Road, Cambridge CB5 8HA, England.
2. Aquatic Biology Abstracts, 1970-1971 - Vols. 1-2; name changed to Aquatic Sciences and Fisheries Abstracts, 1971-1975 - Vols. 3-5. Information Retrieval Ltd., London, England and Washington, D.C.
3. Can/SDI Science Citation Index, 1970-1975. Canadian Institute for Scientific and Technical Information, National Research Council, Ottawa, Ontario, Canada.

(weekly search of Science Citation Index tapes by key word profile)

4. Author's personal collection of approximately 1000 papers on fish reproduction.
5. Lists of publications of fish reproduction were obtained from the following individuals:

Dr. V. Apekin
Dr. R. Billard
Dr. Kun-hsiung Chang
Dr. H. Chaudhuri
Dr. G. Chieffi
Dr. L. Colombo
Dr. M. Fontaine
Dr. F.E.J. Fry
Dr. J.I. Furtado
Dr. T. Gjedrem
Mr. J.L. Gaudet
Dr. N.E. Henderson
Dr. K. Hirose
Dr. D.R. Idler
Dr. V.G. Jhingran
Dr. Ching-Ming Kuo
Dr. Chan-Lui Lee
Dr. I-Chiu Liao
Dr. R.C. May
Dr. R.H. Meakins
Dr. Ch. Meske
Dr. S. Mito
Dr. S. Pandey
Dr. R.E. Peter
Dr. B.N. Saigal
Dr. R.L. Saunders
Dr. D.B.C. Scott
Dr. B.I. Sundararaj
Mr. F.C. Withler
Dr. E. Woynarovich

REQUEST FOR FEEDBACK

In compiling a bibliography of this nature it is impossible to locate all relevant references or to ensure that all references included are accurate.

To this end forms have been provided for users of the bibliography to submit omitted references or to provide corrections to inaccurate references. These may be included in a future supplement to the bibliography.

Furthermore, the author wishes to maintain an uptodate collection of papers on fish reproduction and to this end requests that users of the bibliography send or continue to send reprints of their research papers or technical reports to him at the following address:

Nutrition and Applied Endocrinology Program,
Research and Resource Services Directorate,
Fisheries and Marine Service,
4160 Marine Drive,
West Vancouver, B.C.
Canada V7V 1N6

ACKNOWLEDGMENTS

First of all I wish to thank Mrs. Morva Young who sorted the references by generic name, eliminated duplicates and typed the major part of the bibliography.

George Hunter did an excellent job of searching the Bibliography of Reproduction (Cambridge) and Aquatic Sciences and Fisheries Abstracts as did Ms. Helen M. Dye for CAN/SDI and my personal reprint collection.

Appreciation is also due to Cecilia Cheropita, Satomi Hirano and Valerie Smalley who provided stenographic assistance at various stages.

Support and encouragement for this project by Dr. W.E. Johnson, Acting Director General, Fisheries Management, Pacific Region, Dr. W.E. Razzell, Director, Industry, Technology and Inspection and many other colleagues throughout the world is sincerely acknowledged.

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