

A BIBLIOGRAPHY OF SHARKS AND RELATED SPECIES

(Taxonomy, Biology, Fisheries, Utilization)

Prepared by

**Fisheries Division
Ministry of Food Production, Marine Exploitation,
Forestry and the Environment**





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PREFACE

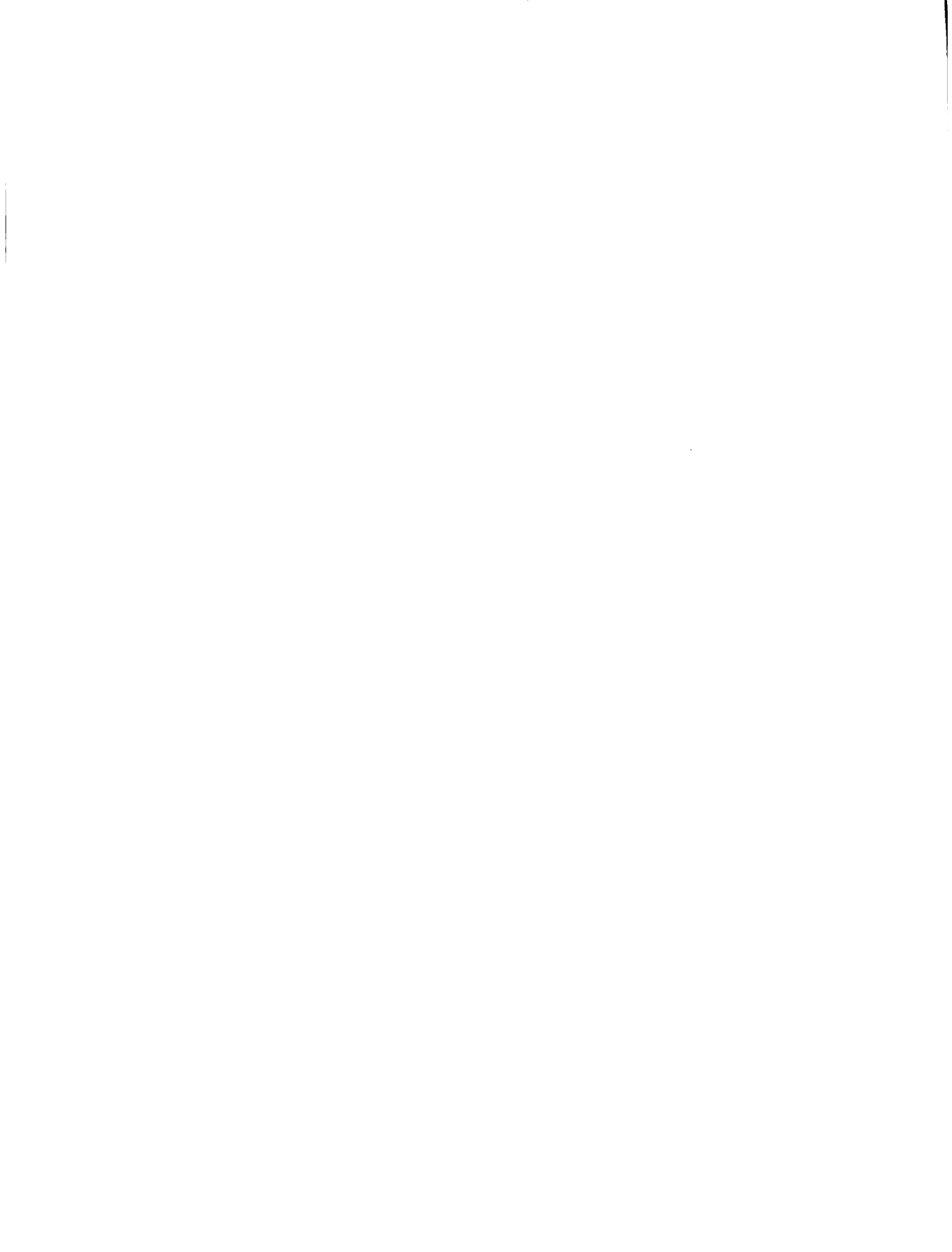
The Fisheries Division of the Ministry of Food Production, Marine Exploitation, Forestry and the Environment has administrative obligations to the Fisheries subsector. It also has an important liaison role between the Ministry and the public, primarily participants in the different sectors of the fishing industry. An integral aspect of this role is the organization and dissemination of information related to fisheries. Additionally, the efforts of research activities for fisheries development are only meaningful when the data generated is translated into information which is recorded, stored and used to direct policy and corroborate future research.

With this document the Fisheries Division and the Ministry of Food Production, Marine Exploitation, Forestry and the Environment, attempt to provide for researchers and decision-makers access to information vital for the development and management of shark fisheries. It is hoped that this bibliography will be of use to colleagues both local and regional who will now have available a source of information which covers this area of research which is novel for Trinidad and Tobago and perhaps the entire Caribbean.

This bibliography represents the first of a series to be published by the Fisheries Division on subjects of importance to the development and management of fisheries in our area.



Mervyn La Croix
Director of Fisheries,
Ministry of Food Production,
Marine Exploitation, Forestry
and the Environment.



INTRODUCTION

The Division has recently concluded an integrated joint project between the Government of Trinidad and Tobago, the United Nations Development Programme and the Food and Agriculture Organization, on the Artisanal Shark Fisheries in Trinidad and Tobago.

The project involved four major activities: improving gear methods for shark fishing, engineering, shark processing and shark biology. Prior to the project, very little was known of the biology of the sharks comprising our fisheries. The histories of documented shark fisheries for which records are available indicates that unregulated development of fisheries often leads to their decline or collapse after a few years of exploitation. This has been attributed primarily to a poor understanding of the biology of the species comprising the fishery, particularly by those in a position to recommend regulations. In promoting the shark fishery, aspects of the fisheries biology, particularly of the commercially important species, should be studied in order to guide policy for managing the fishery.

This study necessitated an extensive literature survey to complement field data collected during the course of the project. This bibliography, therefore, identifies the areas in which information exists for our commercially important species. It also points out areas where data presented for other species may be relevant to our situation.

SOURCES OF INFORMATION

The collection of references was carried out between October 1985 and November 1986. They were obtained from a variety of sources including the extensive bibliographic collection of Mr. Jose Castro, FAO consultant to the UNDP/FAO Project. The remaining references were obtained from collections of the personnel at the Fisheries Division, and the library of the Fisheries Division/Caribbean Fisheries Training and Development Institute, Ministry of Food Production, Marine Exploitation, Forestry and the Environment.

SCOPE OF THE BIBLIOGRAPHY

The bibliography contains selected references from 1806 to December 1985. It is by no means exhaustive. It consists of 1201 references on elasmobranchs, particularly on sharks and represents only holdings of the Fisheries Division/Caribbean Fisheries Training and Development Institute Library. The bulk of the references are published papers from scientific journals and monographs. There are also some unpublished reports and dissertations, conference proceedings, reports of seminars and workshops, non-scientific magazine articles, government reports, abstracts and manuscript reports.

It is hoped that easy information retrieval will be facilitated through the four indexes which have been included: Author index; Subject index; Taxonomic Keywords index and a Chronological index.

The subject index is based on keywords which attempt to summarize, in a few words, the general content of the articles. A list of general keywords which best described the content of the articles was compiled and used. In some cases keywords were provided, however, where subject matter was covered under our list, the relevant keyword was also recorded. In all cases, references were examined and the keywords chosen.

The common names of all species listed are recorded in the subject index. For consistency, we relied entirely upon the FAO Species Catalogue of Sharks (Compagno, 1984) for the interpretation of these common names.

Most of the references have been published in English but some have been published in other languages, such as French, Spanish, German, Latin, Russian, Portuguese and Japanese. As far as possible the subject keywords for these references have been recorded in English in the subject index.

Geographically, the bibliography is not limited to the Western Atlantic but is based on research conducted or observations recorded globally.

Although the document stresses aspects of the fisheries biology of elasmobranchs, several taxonomic references and literature on shark processing, general utilization and recipes are also included. This was done in order to accommodate other aspects of the project as previously outlined.

ABBREVIATIONS USED

In compiling the bibliography, the following abbreviations were used:

- [nd] - no date
- [np] - no place of publication
- [vp] - complicated pagination



ACKNOWLEDGEMENTS

This document is the result of inputs by several individuals and institutions who contributed in various ways to make it a reality. Most of the references were obtained from Mr. Jose Castro. His collection represents more than five years of ardent literature acquisition. The preparation of the document was coordinated by Miss Christine Henry of the Fisheries Division who also helped greatly with the preparation of the data entry sheets and the final form of the document. This document was prepared using the CDS/ISIS software package. The formidable task of data sheet preparation and data entry was undertaken by Miss Gabrielle Fernandes, also of the Fisheries Division. Thanks are also due to Mrs. Sita Kuruvilla, Miss Vishwanie Maharaj, and to those members of the Marine Fishery Analysis Unit of the Fisheries Division who helped with the collection of references.

The Division acknowledges with deepest gratitude the help of the Inter-American Institute for Cooperation in Agriculture (IICA), which through its local office funded the final printing of this document. Mr. Hugo Caceres, Information Specialist of IICA, was instrumental in preparing the basic formation of the data sheets and gave encouragement throughout. Mrs. Maritza Hee Hounq, Head of Library Services in the Ministry, gave of her time and advice and provided critical machinery for the preparation of this document. Her unflinching support is gratefully acknowledged. The help of the personnel at the local office of the United Nations Economic Commission for Latin America and the Caribbean, especially Mr. Dale Alexander, and the National Energy Corporation are also acknowledged.



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