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# Bibliography of the Indian Estuaries, Lagoons and Backwaters

C.A.N. RAO  
J.R.B. ALFRED  
RAMAKRISHNA

ZOOLOGICAL SURVEY OF INDIA

OCCASIONAL PAPER NO. 198

# RECORDS OF THE ZOOLOGICAL SURVEY OF INDIA

## Bibliography of the Indian Estuaries, Lagoons and Backwaters

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## INTRODUCTION

Indian subcontinent with its tropical and monsoonal climate receives an average annual rainfall of 105 cms, which is largest anywhere in the world for a country of a comparable size. This precipitation, spread over the country along with melting of glacial snow of the Himalayas resulted in the formation of large perennial Himalayan rivers *viz.*, the Indus, Ganges, Brahmaputra and other peninsular rivers *viz.*, the Godavari, Krishna, Narmada, Tapti, Mahanadi, Cauveri originating from various mountain ranges and the Deccan plateau. These resulted in formation of 14 major rivers and several medium and minor rivers and innumerable streams which opens into the Bay of Bengal on the east coast and into the Arabian Sea on the west coast of India.

The confluence regions of the rivers with the sea forms a complex zone of aquatic ecosystem i.e. estuaries. The area and extent of estuarine region of each river depends on the season, freshwater drainage through the river and geographical nature of the coastal region at that point. Along with the estuaries many large lagoons such as Chilka, Pulicat, Ashtamudi, Vembanad and several vast structures of backwaters on east and west coast on India, created mixed water (brackish water) habitat, spread over in an area of approximately 7000 sq. kms.

The brackish water ecosystem comprising estuaries, lagoons, backwaters and mangrove forests is a complex and dynamic habitat since these areas are connected to sea and thereby fluctuation in salinity due to tidal effects, rainfall and floods etc. The brackish water areas has been recognised as the most productive ecosystem on our planet since these areas are rich in nutrients especially nitrogen and phosphates needed for plant and animal growth. The supply of these nutrients is continuously replenished by flow from rivers, seas and the adjacent land. The estuarine/ brackish water areas are well recognised as nursery grounds, feeding grounds and as spawning areas for many fin fishes, several crustaceans of commercial importance and many other invertebrates. These areas are also famous for its quantitatively rich faunal resources though smaller in qualitative nature.

The multifaceted importance of these areas in relation to their faunal resources and fishery wealth has been well recognised long back. Further, these areas assumed much more significance with the advent brackish water aquaculture for prawn and some fishes in a big way on Indian coast. The aquaculture activities practised in more than 1,40,000 hectares around estuarine & brackish waters and the associated human interventions in this ecosystem has given further impetus for pursuing detailed biological & ecological studies.

These areas attracted the attention of several biologists, taxonomists, fishery scientists and ecologists from early twentieth century onwards for exploring and making various

investigations. The important estuarine and brackish waters of India *viz.*, Chilka lagoon, Pulicat lake, Hugli-Matla estuary (Sundarbans), Mahanadi, Godavari, Vellar and Mandovi-Zuari estuaries, Cochin back waters and mangrove forests around them have been studied in detail and much information on these areas are available.

During the last century vast literature/ information has been accumulated on studies related to faunal and floral wealth, fishery biology and ecology, pollution, aqua-culture and other physico-chemical and geological aspects pertaining to the estuarine and brackish waters. Presently also these areas continues to be the areas of interest for further studies.

The works on these areas are spread over several journals and the scientific information related to this unique ecosystem is gaining more and more importance in recent times as is much sought after. Therefore, it is contemplated that a compilation on the works on the Indian estuaries, lagoons and back waters as a bibliography will be of immense help for the scientific community interested in pursuing research in this important and complex ecosystem.

Though much work has been accumulated covering various disciplines on these areas, this compilation is confining mainly to the subjects, *viz.*, faunal and floral diversity, biology, ecology, fisheries, aqua-culture, pollution and allied fields. This bibliography will serve as a tool for acquainting with the vast scientific information available on Indian brackish waters instantly to the estuarine biologists in general.

The scientific works on Indian estuaries, lagoons and brackish waters have been published in various Indian and foreign journals, monographs and books etc. However it is found that majority of the works related to this ecosystem are seen in various Indian journals related to zoology, ecology, fisheries and marine biology etc. In view of the above the under cited journals are the main sources of collection of references for this bibliography, as much of the works on brackish water biology are published in these journals. References from other available sources are also included.

## **BIBLIOGRAPHICAL SOURCES**

Journal of Inland Fisheries Society of India.

Journal of Marine Biological Association of India.

Journal of Bombay Natural History Society.

Journal of Zoological Society of India.

Current Science.

Science and Culture.

Proceedings of Indian Academy of Sciences.

Indian Journal of Fisheries.

Indian Journal of Marine Science.

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Madras Journal of Fisheries.

References for this bibliography are also collected from different publications of the Zoological Survey of India and from the Proceedings of various estuarine seminars and symposia.

This bibliographic compilation consists more than 2000 references on Indian estuaries, backwaters and lagoons covering the subjects of interest to biologists, ecologists and fishery scientists especially. Efforts were made to collect and include as many and important references as possible in this compilation. However, some works might have been missing in this work since it is highly impossible to collect all the references. Therefore the present work serves as an exhaustive bibliography on estuarine and brackish water biology, if not complete.

All the collected references have been arranged chronologically and alphabetically for each year. Geographical Index categorised estuary/ state-wise has been provided to facilitate easy retrieval of works pertaining to a particular estuary or State. Further as a tool for ready reference an Author Index has also been provided at the end, which will help in locating the articles/ works of each author.

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**Fig. 1.** Estuary showing lush mangrove vegetation on it's banks.



**Fig. 2.** An Island formation in the mid-east of the river near it's mouth.



**Fig. 3.** Exposed estuary river bank during low tide.



**Fig. 4.** Molluscs and encrustations exposed rocks with bivalves on the estuary river bank along with mangroves.

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**Fig. 5.** Back water creeks with mangrove forests.



**Fig. 6.** Vast shallow back waters exposed during low tide.



**Fig. 7.** Sandy coast at the mouth of the estuary.



**Fig. 8.** Mangrove vegetation during high tide in the estuary.

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