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776 - YOSSELIN RILEY

Proceedings of the 16th All India Congress of Zoology and National Symposium on Recent Advances in Animal Research with Special Emphasis on Invertebrates, held at Aurangabad during 21-23 October 2005.

Among the fishes, a remarkably wide range of biological adaptations to diverse habitats has evolved. As well as living in the conventional habitats of lakes, ponds, rivers, rock pools and the open sea, fish have solved the problems of life in deserts, in the deep sea, in the cold Antarctic, and in warm waters of high alkalinity or of low oxygen. Along with these adaptations, we find the most impressive specializations of morphology, physiology and behaviour. For example we can marvel at the high-speed swimming of the marlins, sailfish and warm-blooded tunas, air breathing in catfish and lungfish, parental care in the mouth-brooding cichlids and viviparity in many sharks and toothcarps. Moreover, fish are of considerable importance of the survival of the human species in the form of nutritious and delicious food of numerous kinds. Rational exploitation and management of our global stocks of fishes must rely upon a detailed and precise insight of their biology. The Chapman and Hall Fish and Fisheries Series aims to present timely volumes reviewing important aspects of fish biology. Most volumes will be of interest to research workers in biology, zoology, ecology and physiology, but an additional aim is for the books to be accessible to a wide spectrum of non specialist readers ranging from undergraduates and postgraduates to those with an interest in industrial and commercial aspects of fish and fisheries.

This publication includes papers that were part of thirty-five oral and nine poster presentations on various themes presented by eminent researchers/practitioners at the international symposium on "River Biodiversity: Ganges-Brahmaputra-Meghna River System" facilitated and supported by IUCN. Papers in this volume, written by biologists, are concerned with biodiversity losses.

A compilation of around 50 articles that relate to ichthyology and fisheries science. The articles are authored by experts and will be useful for students, teachers, researchers, scientists, fish biologists.

Contributed articles with reference to India; commemoration volume for Prof. P.N. Mehrotra.

This book comprises select proceedings of the International Conference on Water, Environment, Energy and Society. The book is divided into five parts. The first part deals with some aspects of environmental pollution such as socio-economic environment assessment for sustainable development,

environmental issues due to fire in coal mines and its impact and suggestions for implementing precautionary and control measures, redevelopment of urban slum dwellings: issues & challenges, air and noise pollution in mega cities, importance of indoor environmental quality in green buildings. Part II discusses pollution indicators such as assessment and prediction of environmental noise, fuzzy logic based performance evaluation, fish biodiversity and its periodic reduction, effects of anthropogenic activities on fresh water ecosystems, and monitoring of air pollution. Part III focuses on generation of pollution namely biomedical waste generation and management, heavy metal leaching, etc. Water quality assessment is described in Part IV. The Part V presents water quality modeling. The book will be of interest to researchers and practitioners in the field of water resources, hydrology, environmental resources, agricultural engineering, watershed management, earth sciences, as well as those engaged in natural resources planning and management. Graduate students and those wishing to conduct further research in water and environment and their development and management will also find the book to be of value.

This book is an up to date compendium of all information available up to 1997 in respect of the freshwater fish fauna of this region. The classification adopted is generally after Nelson's Fishes of the World (1994), Howes (1991) with inputs from Eschmeyer's Genera of Fishes (1990). For cyprinine genera the order of an arrangement proposed by Rainboth (1991) has been adhered to. In respect of nemacheilines the arrangement proposed by Banarescu and Nalbant (1995), Kottelat (1990) have been followed. As indicated in the title the Indian region as conceived here includes India, Pakistan, Bangladesh, Myanmar, Nepal and Sri Lanka within their political boundaries. Afghanistan and other border areas excluded. All primary freshwater fishes are definitely listed and many secondary and peripheral species that visit freshwater are also included. A uniform pattern of citation is adopted. Brief salient features of all the taxa up to orders are given. Descriptive details in respect of families and genera are provided more elaborately. Synonymies include the latest valid name, first reference, type-designations and more important pertinent references to that taxa. All citations have been checked, and cross-checked with the aid of Eschmeyer's work. Species are not described but listed alphabetically with their known range of distribution, but genera are described and arranged according to their known phylogenetic and intergeneric affinities. Keys are provided and simple drawings illustrating characters where needed are given. Synonyms, notes on species, genera, nomenclatural clarifications are given as foot-notes against relevant species marked with an asterisk, but in the foot-note the same serial number alone is cited and not the full species name. Figures depicting a representative of most genera can be seen; for many genera the more common species are illus-

trated as plate figures. A total of 272 genera with 852 species falling under 71 families and 16 orders are dealt with in this book. A glossary of 218 technical terms with adequate illustrations and a bibliography of 649 references are given. 241 figures and 18 plates are in the book. An addenda made up to date carries brief information of one new genus, 11 new species and one new subspecies.

In this impressionistic and often darkly funny account of the sixteen months he spent in a small town in Bihar, Vijay Nambisan tries to understand what drives—or thwarts—perhaps the most talked about state in the Indian Union. Vicious poverty and caste wars, messy politics, corruption and lawlessness—the worst of modern India is in full display here. Yet, how different is Bihar from the rest of the country? And is it really on the brink of a spectacular collapse? Looking beyond clichés and statistics, Vijay Nambisan has produced a remarkably perceptive and balanced portrait of the ‘hole in the heart of India’.

This book contains a total of 25 unpublished research articles. In this edition, we have kept parity with each other's outcomes, concisely in a unique style to depict the trends of research in the mountain fishery sector. We have also appended a list of contributors at the end of the book. The strategies observed in fisheries and aquaculture developments in the mountain waters clearly reveal that the on-going dimensions are nothing but broad ecosystem-based approach where both subsistence and commercial expansion of the systems could be possible. The research trend also directs that several fishery components, like ornamental fisheries, recreational fisheries, integrated fish farming, freshwater crab fishery, shellfish aquaculture, etc., exist. They may also be strengthened in mountain waters to improve the economic status of the mountain regions. Thus for exploiting huge mountain aqua-resources, Arunachal Pradesh targets the ecosystem-based approach of raising native mahseers, like *Tor tor*, *Tor putitora*, *Neolissochilus hexagonolepis*, and exotic species of trout in its mountain waters as a preliminary endeavour.

The Salmophasia fishes are included under the order – cypriniformes and belong to the family – Cyprinidae (Day, 1958). Most of the Salmophasia species are inhabitants of the tropical and subtropical waters. Man made reservoirs and lakes provide unique habitats for the fishery wealth of Karnataka. Reservoir ecosystems have been recognized for their great potential for fish production. At the present level of management, the average fish yield of Indian reservoirs is only between 10-16 kg/ha/year (Jhingran, 1991). The small reservoirs have the potential to yield more than 100-200 kg/ha. Siltation in the rivers and reservoirs, apart from diminishing the quantum of water flow results in the destruction of breeding grounds of fishes, migration of fishes and overall productivity of the reservoir. Siltation also affects the benthic population and the natural recruitment of fishes in the impounded waters. Reservoirs, like rivers are inevitably being affected by industrialization and urbanisation.

Comparative study of Bihar and all-India.

The Present Book Applied Fishery Science Is The Outcome Of The Intensive Efforts Made By The Author For More Than Five Consecutive Years To Bring The Universally Spread Documented Informations And Data, Both Traditional As Well As Research Oriented Recent Findings, Before The Scientific World In A Consolidated Form, Specially Before Those Who Are Concerned With Fish Farming And For

Capture Of Fishes From Varied Water Sources. Several Valuable Informations Have Been Provided On The Fish Farming Requisites, Such As Methods Of The Quality Fish Seed Procurement, Their Safe Transportation, Design And Layout For The Construction Of New Ponds, Maintenance Of Required Water Quality In The Ponds, Availability Of Choiced Food Items At Proper Times, Use Of Right Kinds Of Fertilizers And Provision Of Supplementary Feeds At Emerging Times. Infrastructural Details And Operation Methods Of Fishing Gears And Some Informations On Related Accessories, Particularly Trawlers, Fishing Boats And Vessels And Several Kinds Of Crafts, Traps And Angling Implements To Catch Sporting Fishes Have Been Given With Lucid Illustrations. Presentation Of Recent Data On Fish Catches (Year-Wise In Most Cases) Has Enhanced The Quality Of Book. Matters, On Several Specific Topics Like Hilsa Culture, Trout Culture, Live-Fish Culture, Cage Culture, Paddy-Cum-Fish Culture, Integrated Fish Culture, Brackish Water Fish Culture, Prawn Culture, Shrimp Culture, Molluscan Fisheries, Recent Aquaculture Practices And Useful Seaweeds And Algal Products, Have Been Beautifully Described In The Book. Trade And Commerce Prospects With The Inclusion Of Accounts Of Fish Processing, Fish Preservation, Various Kinds Of Fish By-Products And Scope Of Marketing Of Fish Have Been Made Highly Explicit. A Fine Attempt Has Been Made To Provide As Many As Fifty One Aspects Of Applied Fishery Science, Merging Together In One Book In Order To Meet The Requirements Of Syllabi Of Universities, Technical/Professional Institutions, Advanced Centres Of Fisheries Education And Research. It Is Hoped That The Academicians, Researchers/Fishery Scientists, Graduate And Post-Graduate Students Of Fishery Science Will Cherish The Author S Endeavour In Finding Appreciable Utility Of The Book.

Wetlands Conservation An up-to-date overview of approaches for addressing wetlands degradation and its effects on ecosystem services, human health, and other ecosystems Wetlands are essential sources of biodiversity, water purification, groundwater replenishment, flood control, storm protection, sediment retention, recreation and tourism, and more. Human exploitation of natural resources over the past 200 years has caused significant wetlands degradation and loss. Although the Ramsar Convention of 1971 drafted polices for wetland conservation and responsible use, many wetland sites remain inadequately conserved or managed. Maintaining the ecological balance and equilibrium of wetlands requires a clear understanding of the vital role of wetlands, the difficulties they face, and the policies enacted for their protection. Wetlands Conservation: Current Challenges and Future Strategies summarizes both current and emerging management strategies, trends, and policies regarding wetlands protection around the world. The authors provide accurate scientific information on wetlands while discussing the effects of climate change, global warming, modernization in agriculture, and other key topics. Designed to assist in the development of future solutions for wetlands conservation and management strategies, this important volume: Highlights the environmental, socioeconomic, and cultural importance of wetlands Identifies the factors responsible for the failure of many conservation initiatives Describes the natural and anthropogenic factors of wetlands degradation Discusses the role of community-based wetlands conservation and management Explores Ramsar wetlands conservation and its impacts worldwide Wetlands Conservation: Current Challenges and Future Strategies is an invaluable resource for graduate and postgraduate students, researchers, ecologists, policymakers, conservation organizations, and others working in the field of natural resources management.

The revised third edition is a comprehensive and better illustrated book covering the major aspects of freshwater aquaculture within Asiatic region with particular focus on the Indian context. In the present revised edition, an attempt has been made not only to update the information but also three additional chapters such as Biotechnology in Aquaculture, Fisheries Extension Education and Ornamen-

tal Fish Production and Management are incorporated for the graduate and postgraduate students in the subject concerned. Hope this book would facilitate the teaching of the subject in Colleges and Universities as per their syllabi.

This publication is presented in two parts.