

Morphological Bases Of The Systematics And Phylogeny Of The Nototheniid Fishes

Fishes of AntarcticaExtremophile FishesAntarctic Fish BiologyFish EcophysiologyAntarctic EcosystemsJournal of IchthyologyJournal of the Royal Society of New ZealandProceedings of the United States National MuseumPhilosophical Transactions of the Royal Society of LondonFishes of the Southern OceanProceedings of the Linnean Society of New South WalesStudies in the Tiphidae, X Hylomesa, a New Genus of Myzine Wasp Parasitic on Larvae of Longicorn Beetles (Hymenoptera)Proceedings of the United States National MuseumMemoirs of National Institute of Polar ResearchMemoirs of National Institute of Polar Research. SeriesEnvironmental Constraints Upon Locomotion and Predator-prey Interactions in Aquatic OrganismsSouthern Ocean CephalopodsBulletin of the Biological Society of WashingtonThe Journal of Experimental BiologyStudy of the Dorsal Gill-arch Musculature of Teleostome Fishes, with Special Reference to the Actinopterygii Guido di Prisco Rüdiger Riesch Joseph T. Eastman J.C. Rankin Alex D. Rogers United States National Museum Ofer Gon Linnean Society of New South Wales Arthur Grover Humes United States National Museum Tetsuo Iwami National Institute of Polar Research Paolo Domenici Paul Rodhouse Victor Gruschka Springer

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the antarctic fish fauna has evolved over a long period of geographic and climatic isolation in the course of this evolution antarctic fish have developed specialized adaptations some of which characterize these organisms as unique in strong contrast to the continental shelf faunas elsewhere the antarctic shelf ichthyofauna is dominated by a single highly endemic group the notothenioidei this group of perciform fish probably first appeared and diversified in the early tertiary the development of the polar front referred to as the antarctic convergence in the older literature resulted in a natural oceanographic barrier to migration in either direction and thus became a key factor in the evolution of antarctic fish the dominance of the antarctic continental shelf fauna by a single taxonomic group of fish provides a simplified natural laboratory for exploring the wealth of physiological biochemical and ecological adaptations that characterize the fauna understanding of the patterns of adaptation in this highly specialized group of fish can tell us much about of evolution

this book summarizes the key adaptations enabling extremophile fishes to survive under harsh environmental conditions it reviews the most recent research on acidic antarctic cave desert hypersaline hypoxic temporary and fast flowing habitats as well as naturally and anthropogenically toxic waters while pointing out generalities that are evident across different study systems knowledge of the different adaptations that allow fish to cope with stressful environmental conditions furthers our understanding of basic physiological ecological and evolutionary principles in several cases evidence is provided for how the adaptation to extreme environments promotes the emergence of new species furthermore a link is made to conservation biology and how human activities have exacerbated existing extreme environments

and created new ones the book concludes with a discussion of major open questions in our understanding of the ecology and evolution of life in extreme environments

this important volume provides an original synthesis and novel overview of antarctic fish biology detailing the evolution of these fish in some of the most unusual and extreme environments in the world focusing on one group of fish the notothenioids which contain the majority of the current organismal diversity this book describes a fauna that has evolved in isolation and experienced incredible adaptive radiation by acquiring numerous physiological specializations darwin's finches and african cichlids may be joined by antarctic fishes as exemplars of adaptive radiation the book's coverage is detailed and comprehensive and the author clearly recognizes the fact that these fish are a component of a most interesting and biologically unique ecosystem and environment topics in antarctic fish biology include past and present environments fossil records taxonomic composition of fauna systematic relationships diversification and physiological adaptations

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 specialisations 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 to the survival of the human species in the form of nutritious delicious and diverse food rational exploitation management of our global stocks of fishes must rely upon a detailed and precise insight of their biology the chapman 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

since its discovery antarctica has held a deep fascination for biologists extreme environmental conditions seasonality and isolation have lead to some of the most striking examples of natural selection and adaptation on earth paradoxically some of these adaptations may pose constraints on the ability of the antarctic biota to respond to climate change parts of antarctica are showing some of the largest changes in temperature and other environmental conditions in the world in this volume published in association with the royal society leading polar scientists present a synthesis of the latest research on the biological systems in antarctica covering organisms from microbes to vertebrate higher predators this book comes at a time when new technologies and approaches allow the implications of climate change and other direct human impacts on antarctica to be viewed at a range of scales across entire regions whole ecosystems and down to the level of species and variation within their genomes chapters address both antarctic terrestrial and marine ecosystems and the scientific and management challenges of the future are explored

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