

A Functional Biology Of Scyphozoa

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scyphozoa have attracted the attention of many types of people naturalists watch their graceful locomotion fishermen may dread the swarms which can prevent fishing or eat larval fish bathers retreat from the water if they are stung people from some asiatic countries eat the medusae comparative physiologists examine them as possibly simple models for the functioning of various systems this book integrates data from those and other investigations into a functional biology of scyphozoa it will emphasize the wide range of adaptive responses possible in these morphologically relatively simple animals the book will concentrate on the research of the last 35 years partly because there has been a rapid expansion of knowledge during that period and partly because much of the previous work was summarized by books published between 1961 and 1970 bibliographies of papers on scyphozoa were included in mayer 1910 and kramp 1961 taxonomic diagnoses are also included in those monographs as well as in a monograph on the scyphomedusae of the ussr published by naumov naumov 1961 most importantly a generation of scyphozoan workers has used as its bible the monograph

by f s russell 1970 the medusae of the british isles in spite of its restrictive title his book reviews most of the information on the biology of scyphozoa up to that date

jellyfish form spectacular population blooms and there is compelling evidence that jellyfish blooms are becoming more frequent and widespread blooms have enormous ecological economic and social impacts for example they have been implicated in the decline of commercial fisheries they block the cooling water intakes of coastal industries and ships and reduce the amenity of coastal waters for tourists blooms may be caused by overfishing climate change and coastal pollution which all affect coastal waters around the world jellyfish blooms causes consequences and recent advances presents reviews and original research articles written by the world s leading experts on jellyfish topics covered include the evolution of jellyfish blooms the impacts of climate change on jellyfish populations advances in acoustic and molecular methods used to study jellyfish the role of jellyfish in food webs and nutrient cycles and the ecology of the benthic stages of the jellyfish life history this is a valuable resource for students and professional marine biologists fisheries scientists oceanographers and researchers of climate change

this volume the proceedings of the seventh international conference on coelenterate biology is organized as the meeting was around six topics because several sessions of iccb7 constituted the 2003 north american meeting of the international society for reef studies the subject of coral reefs is strongly represented in the section on ecology the other themes are neurobiology reproduction development and life cycles pioneers in coelenterate biology cnidae and taxonomy and systematics ctenophores as well as representatives of all four classes of cnidarians are among the study subjects of the research reported in this volume the theme of

variability runs through the volume be it in cnidae morphology behavior neurobiology ecology colony form or reproduction variability is a major reason these animals are so interesting and challenging to study this is a must read resource for anyone doing research or planning to do research on cnidarians and ctenophores

this volume provides an identification key for the ephyrae of 18 common scyphozoan species documents the mediterranean wide bloom of the invasive ctenophore *mnemiopsis leidyi* and addresses the direct effects of ocean acidification on jellyfish

jellyfish generally are considered to be nuisances because they interfere with human activities by stinging swimmers clogging power plant intakes and nets of fishermen killing fish in aquaculture pens and being both predators and competitors of fish there is concern that environmental changes such as global warming eutrophication over fishing and coastal construction may benefit jellyfish populations during this past decade following the first jellyfish blooms volume some species have bloomed more frequently expanded their range and caused more problems for humans *mnemiopsis leidyi* the ctenophore that invaded the black sea in the 1980s and damaged fisheries now also blooms in the north baltic and mediterranean seas *nemopilema nomurai* a giant asian jellyfish has bloomed frequently during this decade causing severe damage to the japanese fishing industry jellyfish blooms interactions with humans and fisheries is the fourth volume in this series syntheses and original research articles address the question if jellyfish have increased globally and what factors may have contributed to the abundance of jellyfish this volume is the most extensive to date containing papers from all continents except antarctica on scyphozoans hydrozoans cubozoans staurozoans and ctenophores and on the fate of jellyfish blooms this is a key reference for students and professional marine biologists oceanographers and fishery scientists

and managers previously published in hydrobiologia vol 690 2012

an immensely useful manual with many attractive features comprehensive and lucid keys precise diagrams annotated checklists and up to date references there is no doubt that it should be seen as an example of the type of manual which is so badly needed in the study of the fauna of many shores around the world journal of animal ecology congratulations to the editors contributors and publisher for a job well done the third edition has been rewritten corrected and enlarged so that while retaining the basic organization of the earlier ones it is more useful informative and up to date the meticulous scholarship of smith and carlton is just what the revision needed systematic zoology this revision should serve for many years it is therefore particularly commendable that the editing has been meticulous perhaps flawless thanks are due to the many contributors for a job well done the quarterly review of biology as the pacific coast intertidal zone undergoes increasingly profound changes knowing the sentinel invertebrates can foretell the future of the sea and hence of our species jim carlton s hefty new update of the light smith manual the comprehensive compendium of who s who between the tides is the best and quickest way to do so elliot a norse president marine conservation biology institute this much anticipated modernization of light s manual is an astonishing accomplishment blending state of the art taxonomy with profusely illustrated and user friendly keys to who s whom on marine shores from its stated boundaries of mid california through oregon and clearly much further north it s also an informative well referenced read marine biologists should not leave home without it robert paine professor emeritus of biology university of washington at this time of environmental change and loss of biodiversity species identification has never been more important the fourth edition of light and smith is more than just a field guide it is a masterwork of research and description with a

strong focus on morphological detail no other book has such a broad scope newly expanded to include even the most obscure taxa the revised keys and beautiful anatomical illustrations make this classic guide more indispensable than ever as taxonomists become extinct there are fewer students to receive the vast body of knowledge accumulated by generations of careful study i hope that the beauty and depth of this guide will inspire a generation of young scientists to continue this critical taxonomic work it will have a place of honor in all marine labs paul k dayton scripps institution of oceanography

neil campbell and jane reece s biology remains unsurpassed as the most successful majors biology textbook in the world this text has invited more than 4 million students into the study of this dynamic and essential discipline the authors have restructured each chapter around a conceptual framework of five or six big ideas an overview draws students in and sets the stage for the rest of the chapter each numbered concept head announces the beginning of a new concept and concept check questions at the end of each chapter encourage students to assess their mastery of a given concept new inquiry figures focus students on the experimental process and new research method figures illustrate important techniques in biology each chapter ends with a scientific inquiry question that asks students to apply scientific investigation skills to the content of the chapter

this thorough revision of invertebrate zoology provides a survey by groups emphasizing adaptive morphology and physiology while covering anatomical ground plans and basic developmental patterns the most modern evolutionary research is included

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