

Alien Fish Species in the Eastern Mediterranean Sea

Invasion Biology in Coastal Ecosystems



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Alien Fish Species In The Eastern Mediterranean Sea

Raimi, Lukman, Kah, Jainaba M. L.



Alien Fish Species In The Eastern Mediterranean Sea:

Alien Fish Species in the Eastern Mediterranean Sea Stefan Kalogirou, 2011 Seasonal quantitative sampling in two common coastal habitats was used to investigate habitat use of different life stages Sandy areas were found to be highly important for the early life stages of *L. scleratus* In contrast *Posidonia oceanica* habitats were mainly preferred by larger 29 cm reproductive adults with a maximum recorded size of 64 cm *Lagocephalus scleratus* was found to be an invertebrate and fish feeder while size classification revealed a tendency for an ontogenetic diet shift with increased size to a molluscivore feeding The ontogenetic diet shift is most probably attributed to a shift in habitat use with increasing size During early life stages *L. scleratus* inhabited sandy bottoms where it fed on various invertebrates including the genus *Nassarius* and *Dentaliidae* The predominant molluscan species found in the diet of larger 20 cm *L. scleratus* individuals was *Sepia officinalis* while predation of *Octopus vulgaris* was less successful *Sepia officinalis* and *O. vulgaris* are of economic interest in the area and the impact of *L. scleratus* on local stocks of these species is discussed Societal impacts were also evident in the area due to increased public attention concerning the lethal effects of the toxic *L. scleratus* if consumed Seasonal variations in the condition of *L. scleratus* did not show any significance and the high conditional values together with information on high numbers caught during samplings signifies its ability to become an important member of the coastal fish community Combined ecological economical and social effects clearly classify *L. scleratus* a pest in the area

The Mediterranean Sea Stefano Goffredo, Zvy Dubinsky, 2013-09-09 This volume is an indispensable addition to the multidisciplinary coverage of the science of the Mediterranean Sea The editors have gathered leading authorities from the fields of Marine Biology Ecology paleoclimatology Chemical and Physical Oceanography Zoology Botany Aquatic Photosynthesis Socioeconomics Mariculture Mediterranean History and Science of Humanity Beginning with the birth of the Mediterranean Sea and its myths From coral to fish an introduction is given to its major inhabitants of plants and animals past and present The chapters illustrate how organisms interact as part of the structure and function of the Sea's main ecosystems The rise of the Mediterranean as the cradle of the Western Civilization leads to a discourse on the status of human interaction with the sea Accelerating global climate change water warming ocean acidification and sea level rise and analyses of their effects on key organisms entire ecosystems and human socioeconomics are given Forecasting and predictions are presented taking into account different future scenarios from the IPCC International Panel on Climate Change The volume is richly illustrated in color with an extensive bibliography A valuable addition to the limited literature in the field offering up to date broad coverage merging science and humanities

The status and distribution of freshwater biodiversity in the eastern Mediterranean Kevin G. Smith, Violeta Barrios, William R.T. Darwall, Catherine Numa, 2014-01-01 The Eastern Mediterranean region supports just over 4 4% of the global human population yet contains only 1 1% of its renewable water resources which are under constant threat from the impacts of unsustainable water withdrawal dam development and climate change This IUCN report and

accompanying dataset represents a major advance in the provision of information to help incorporate biodiversity needs into water development planning processes within an Integrated River Basin Management framework This volume includes species information compiled for each river and lake sub basin and incorporates information from the assessment conducted by IUCN s Global Species Programme in collaboration with its partners of the status and distribution of all described species of freshwater fishes molluscs odonates and plants from across the Eastern Mediterranean with existing information for species of freshwater dependent amphibians birds crustaceans and mammals This work represents the most comprehensive assessment yet of freshwater biodiversity at the species level for this part of the world The Montenegrin Adriatic Coast Aleksandar Joksimović, Mirko Đurović, Igor S. Zonn, Andrey G. Kostianoy, Aleksander V. Semenov, 2021-06-23 This is the first of two volumes that together provide an integrated picture of the Montenegrin Adriatic coast presenting the natural components of the system as well as the chemical composition and chemical processes in the extended area This book describes the biology and ecology of the high seas of the Montenegrin coast with a special focus on their biodiversity flora and fauna fisheries mariculture marine reptiles and mammals The data has been collected through national and international projects over the last few decades and provides the reader with models and recommendations for the protection of this vital region of the Adriatic coast as well as scientific recommendations for the sustainable use of its biological resources Given the breadth and depth of its coverage the book offers an invaluable source of information for researchers students and environmental managers alike **Aquatic Invasions in the Black, Caspian, and Mediterranean Seas** Henri J. Dumont, Tamara A. Shiganova, Ulrich Niermann, 2006-04-11 The present volume contains the presentations of a NATO advanced Research Workshop ARW entitled The invasion of the Black Mediterranean and Caspian Seas by the American Ctenophore Mnemiopsis leidyi Agassiz a multidisciplinary perspective and a comparison with other aquatic invasions held on 24-26 June 2002 in Baku Azerbaijan The meeting was nanced by the NATO Division for Scientific and Environmental Affairs Brussels substantial logistic support was provided by the CEP Caspian Environmental Program of the GEF in Baku The Mediterranean Black and Caspian Seas represent three fragments of the former Tethys Sea and are thus of great interest to understanding the evolution of the entire region where Eurasia Africa and the Arabian Peninsula meet While the Mediterranean is a typical marine environment with salinity even a little above the world ocean s the Black Sea is a brackish meromictic lake and the Caspian is a lake with a saline gradient extending from a freshwater basin in the North to a brackish water basin in the South Intense shing activity takes place in all three seas while maritime traf c through the Dardanelles and Bosphorus and via the Lenin Canal between the Don and Volga rivers to the Caspian Sea has become greatly intensi ed in the course of the last few decades **Adaptive management of fisheries in response to climate change** Bahri, T., Vasconcellos, M., Welch, D.J., Johnson, J., Perry, R.I., Ma, X. & Sharma, R., 2021-02-01 This report aims to accelerate climate change adaptation implementation in fisheries management throughout the world It showcases how flexibility can be

introduced in the fisheries management cycle in order to foster adaptation strengthen the resilience of fisheries reduce their vulnerability to climate change and enable managers to respond in a timely manner to the projected changes in the dynamics of marine resources and ecosystems The publication includes a set of good practices for climate adaptive fisheries management that have proven their effectiveness and can be adapted to different contexts providing a range of options for stakeholders including the fishing industry fishery managers policymakers and others involved in decision making These good practices were linked to one or more of the three common climate related impacts on fisheries resources distributional change productivity change and species composition change Therefore these three impacts can serve as practical entry points to guide decision makers in identifying good practice adaptation measures suitable for their local contexts These good practices are based upon transferable experiences and lessons learned from the thirteen case studies across the globe and hopefully will contribute to greater uptake and implementation of climate adaptive fisheries management measures on the ground

People and Wildlife Becky Thomas, Mark Fellowes, 2020-10-07 We live in a world filled with fascinating plants and animals each adapted to environments that range from freezing arctic tundras to humid tropical forests Our world is also home to more than seven billion people a number added to every day Each of us puts pressure on the environment and the space left for wildlife At its most extreme every aspect of the environment has been influenced by people's choices and nowhere more so than the urban areas where most people live Urban areas are full of people playing and working They are also full of animals and plants often living secret lives that go unnoticed Our interactions with wildlife are often determined by our desire to get close to nature or sometimes our fear of it When people think of urban areas they mostly imagine big cities but these areas extend into more suburban environments made up of houses gardens roads and parks These landscapes are often filled with wildlife that represent a combination of local plants and animals with species from other places that are planted or escaped creating a unique habitat linked directly with the people who live there There are many challenges for the species found here but many opportunities too People can individually affect the environment for example by owning pet cats who are like mini tigers preying on the local birds or by leaving out trash and drawing in herds of peccaries or families of raccoons But it is in combination that we have the greatest impact For example houses and street lamps generate lots of light noise which can distract moths from their usual habits and the roads and streets we build divide up the habitat making it harder for wildlife to move around and find resources We in turn are also affected by the environment living in nature filled areas can positively affect our health and our well being yet interactions with certain species like ticks or mosquitoes can bring disease or discomfort Scientists and citizen scientists expert members of the public around the world are exploring our interactions with wildlife and nature in urban areas and here we explore some of this research This collection of articles aims to highlight some of the amazing wildlife that live alongside us and we explore how we can positively and negatively affect these species

Trends in Fisheries and Aquatic Animal Health Panagiotis

Berillis,2017-11-11 Fish and other seafood have always been considered as an important part of human diet and have also long been recognized as a health promoting food for human nutrition However managing aquatic food resources remains a challenge as the human population is expanding and overfishing poses a threat to fishing reserves in several areas Aquaculture is the alternative solution for food production from the sea According to the FAO aquaculture is probably the fastest growing food producing sector and can be a sustainable solution for fish production In order to maximize marine food production and achieving sustainable management of the aquatic environment knowledge about aspects of fisheries and aquatic animal health is very important Trends in Fisheries and Aquatic Animal Health covers some basic and applied topics in fishery management and fish health with a focus on European regions The textbook is a combination of reviews and research articles Topics covered in the book include challenges in fishery management environmental impacts on fisheries fish health pharmacology histopathology stress response telemetry techniques in fisheries research and specific case studies of regional marine species in localized fisheries This textbook is a useful resource for graduates and professionals involved in advanced training courses for aquaculture and fishery management **Mediterranean Marine Science** ,2008

Implications for Entrepreneurship and Enterprise Development in the Blue Economy Raimi, Lukman,Kah, Jainaba M. L.,2022-04-08 The blue economy is a widely used concept in policy circles however people across a wide spectrum have a peripheral understanding of the phenomenon At the moment there are several conflicting understandings of the blue economy but no universally accepted definition and veritable measures Considering the existential importance of the blue economy for the protection of marine environments and sustainability of businesses there is an urgent need for rigorous conceptual policy focused theoretical and empirical studies on the subject from multidisciplinary perspectives Implications for Entrepreneurship and Enterprise Development in the Blue Economy enriches existing definitions of a blue economy with inputs from a multidisciplinary lens and provides veritable measures for evaluating blue economy progression and compliance Covering topics such as economics natural resource development social equity and sustainability this reference work is ideal for policymakers entrepreneurs managers oceanographers marine biologists scholars industry professionals government officials academicians researchers practitioners instructors and students Biological Invasions in the Mediterranean Sea Periklis Kleitou,Francesco Tiralongo,Jason Michael Hall-Spencer,Ioannis Giovos,2022-10-17

Routledge Handbook of Seascapes Gloria Pungetti,2022-07-31 Seascape studies have developed in response to questions arising from composite correlations such as coastal island and marine research social requirements landscape design and planning marine ecology and environment and resource management This global volume is the first comprehensive overview to provide a solid foundation on the concept of seascape with the latest research findings from leading experts across a variety of fields offering a holistic approach to seascape linking nature with culture and theory with practice Divided into six parts it includes over 30 chapters from contributors around the world Pioneering methods with illustrated case studies from

the Mediterranean Scandinavia North Sea North America and Asia serve as examples for future seascape development conservation and governance An important and extremely timely resource the Routledge Handbook of Seascapes provides academics practitioners NGOs consultants and government officials with a broad overview of current research and practice for future application and advance worldwide Coasts and Estuaries Eric Wolanski, John W. Day, Michael Elliott, Ramachandran Ramesh, 2019-01-24 Coasts and Estuaries The Future provides valuable information on how we can protect and maintain natural ecological structures while also allowing estuaries to deliver services that produce societal goods and benefits These issues are addressed through chapters detailing case studies from estuaries and coastal waters worldwide presenting a full range of natural variability and human pressures Following this a series of chapters written by scientific leaders worldwide synthesizes the problems and offers solutions for specific issues graded within the framework of the socio economic environmental mosaic These include fisheries climate change coastal megacities evolving human nature interactions remediation measures and integrated coastal management The problems faced by half of the world living near coasts are truly a worldwide challenge as well as an opportunity for scientists to study commonalities and differences and provide solutions This book is centered around the proposed DAPSI W R M framework where drivers of basic human needs requires activities that each produce pressures The pressures are mechanisms of state change on the natural system and Impacts on societal welfare including well being These problems then require responses which are the solutions relating to governance socio economic and cultural measures Scharin et al 2016 Covers estuaries and coastal seas worldwide integrating their commonality differences and solutions for sustainability Includes global case studies from leading worldwide contributors with accompanying boxes highlighting a synopsis about a particular estuary and coastal sea making all information easy to find Presents full color images to aid the reader in a better understanding of details of each case study Provides a multi disciplinary approach linking biology physics climate and social sciences **Fish Forum Book of abstracts 2018** Food and Agriculture Organization of the United Nations, 2019-02-19 This volume includes all the abstracts of the keynotes oral contributions and posters presented by participants on the occasion of the Forum on Fisheries Science in the Mediterranean and the Black Sea Fish Forum 2018 Organized by the GFCM at FAO headquarters Rome Italy from 10 to 14 December 2018 in collaboration with technical partners the Fish Forum 2018 is a first of the kind event gathering scientists researchers engineers academics practitioners managers and decision makers from around the world to discuss and share knowledge on the latest developments in fisheries science The material contained in this book of abstracts stems from the contributions received from participants and selected by an international scientific committee based on their technical quality and relevance The abstracts are subdivided according to the three main themes of the Fish Forum 2018 Better science for better advice Healthy seas and sustainable fisheries and Economic analysis and technology for societal benefit Each theme is introduced by a keynote presentation followed by oral presentations and posters These documents

form the basis of the discussions held during parallel sessions and poster sessions of the Fish Forum 2018

Encyclopedia of Biological Invasions Daniel Simberloff, Marcel Rejmanek, 2011-01-02 Addresses all aspects of this subject at a global level including invasions by animals plants fungi and bacteria in succinct alphabetically arranged articles Featuring many cross references suggestions for further reading illustrations an appendix of the world s worst 100 invasive species a glossary and more From the publisher

Ecosystem Approach to Fisheries in the Mediterranean and Black Seas - Advances in Research and Technologies Violin Stoyanov Raykov, Petya Pavlova Ivanova, Cemal Turan, Ertug Duzgunes, 2020-09-17 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

Ecocentric fisheries management in european seas: Data gaps, base models and initial assessments, volume I Athanassios C. Tsikliras, Georgi M. Daskalov, Georgios Sylaios, Gianpaolo Coro, Marco Scotti, David Grémillet, 2023-10-31

The implementation of the ecosystem approach to fisheries management in Gökçeada, Turkey Ünal, V., Tosunoğlu, Z., Tıraş, E.M., Vasconcellos, M., 2022-04-07 Gökçeada is Turkey s largest island and acts as a natural center for the transition points of migrating fish located at the entrance of Saros Bay and at a point where the Marmara Sea and the North Aegean waters meet The banks surrounding Gökçeada create rich fishing beds It also hosts Turkey s only marine park established in 1999 A lack of stock assessments as well as co management has impeded fisheries management capabilities in the region This document presents a first baseline report on the fisheries of Gökçeada to facilitate its transition to incorporating the principles of an ecosystem approach to fisheries management This report was prepared as part of the project Transition to Ecosystem Approach to Fisheries Management and Designing a Management Plan in Gökçeada Turkey carried out in cooperation with the Ministry of Agriculture and Forestry and managed by Ege University with the participation of many other stakeholders and financed by the FAO EastMed Project The first part of the report presents information on the fisheries and the second section presents threats to the sustainability of fishing A review of all existing relevant data was completed in addition to fisher interviews performed in 2020 to properly understand the current state of the fisheries and threats affecting sustainability The baseline report is the first step towards the preparation of a management plan for fisheries in Gökçeada The success of this initiative requires the joint willingness and determination of all stakeholders especially from the official institutions and the fishery cooperative

The Aegean Sea Environment Christos L. Anagnostou, Andrey G. Kostianoy, Ilias D. Mariolakos, Panayotis Panayotidis, Marina Soilemezidou, Grigoris Tsaltas, 2024-07-03 This is the second of three Books that together provide an integrated picture of the Aegean Sea presenting the natural components of the system Book I and Book

II as well as the human presence in the extended area Book III The Aegean Sea also called Aegean Archipelagos is an open complex and diverse marine system situated between the Black Sea and the Eastern Mediterranean with different compartments and interactions Book II offers a multidisciplinary perspective of the diverse habitats and intricate relationships that shape the Aegean Sea s coastal environment covering the Aegean Sea s biodiversity Book II also provides valuable insights into the current state and conservation of the cetaceans Mediterranean monk seals sea turtles seabirds and benthic communities that call the Aegean Sea home The book closes with a chapter where experts in the field provide an overview of the functioning of the Aegean Sea natural system highlighting existing knowledge gaps and proposing avenues for future research Given the breadth and depth of its coverage this book serves as a valuable resource for researchers scholars and students interested in biology of the marine environment as well as policymakers and conservationists seeking a comprehensive understanding of the Aegean Sea s complex natural systems *Marine Conservation* P. Keith

Probert, 2017-07-06 Providing a comprehensive account of marine conservation this book examines human use and abuse of the world s seas and oceans and their marine life and the various approaches to management and conservation Healthy marine ecosystems the goods and services that they provide are of vital importance to human wellbeing There is a pressing need for a global synthesis of marine conservation issues and approaches This book covers conservation issues pertinent to major groups of marine organisms such as sharks marine turtles seabirds and marine mammals key habitats from estuaries wetlands and coral reefs to the deep sea and from local and regional to international initiatives in marine conservation An ideal resource for students researchers and conservation professionals the book pays appropriate attention to the underlying marine biology and oceanography and how human activities impact marine ecosystems enabling the reader to fully understand the context of conservation action and its rationale

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