



Olga Lukyanova

Persistent organic pollutants in marine ecosystems in Russian Far East

Sources, transport, biological effects

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Persistent Pollutants In Marine Ecosystems

**Ph. Garrigues, H. Barth, C.H.
Walker, Jean-François Narbonne**

Persistent Pollutants In Marine Ecosystems:

Persistent Pollutants in Marine Ecosystems Colin H. Walker, D.R. Livingstone, 2013-10-22 This new volume from the SETAC Society of Environmental Toxicology and Chemistry Special Publications Series examines the phenomenon of persistent pollutants in the seas and oceans Unlike the highly visible and obvious effects caused by oil certain chemicals have unseen but long term and far reaching effects on the marine ecosystem They often have long half lives are carried great distances and pass easily through the food chain from prey to predator The behaviour and effects of these persistent pollutants on each type of marine animal invertebrates vertebrates fish mammals and fish eating birds are described A final overview draws the observations and conclusions together presenting a work that provides a foundation for understanding the behaviour of persistent pollutants in the marine environment

Persistent Organic Pollutants in Marine Ecosystems in Russian Far East Olga Lukyanova, 2013-11-12 Persistent organic pollutants POPs are very harmful due to their bioaccumulative nature and toxic biological effects on wildlife and human Increased concentrations of organochlorine compounds have been detected in a wide range of the environmental media and aquatic food net Russia has some reliable monitoring data on the POPs levels and programs on emission control Data on pesticide pollution in Russian Far East are very limited This monograph overviewed the published and new experimental data concerning POPs in marine environment and biota in Russian zone of Pacific marginal seas Bering Sea Okhotsk Sea and Japan East Sea Regional sources of HCH and DDT generation use and discharge main features of POPs transport current status and temporal trends of pesticides level in marine environment are discussed Particular attention has given to POPs biotransport by Pacific salmon This project was supported by Scientific Fund of Far Eastern Federal University grant 12 04 13000 33 13

Marine Pollution: Current Status, Impacts and Remedies De-Sheng Pei , Muhammad Junaid, 2019-08-05 While oceans are vast they represent a fragile resource that must be protected if we want to protect our livelihoods and our planet Marine pollution has been a topic of concern for a long time and it has recently attracted the attention of scientists environmentalists economists politicians and journalists in mainstream media Besides providing food transportation routes and other resources the oceans serve as a heat absorbing sink which offsets the extreme heating effects of climate change but only to a limited degree Pollution in marine environments such as the oceans poses a threat to coastal communities by affecting the fauna and flora in the environment and the health of the nearby population This has a disruptive effect on the health and economy of these communities Marine Pollution Current Status Impacts and Remedies emphasizes the limitations of marine resources that relevant environments provide Readers will find chapters on methods to assess pollution as well as important information for identifying measuring and remediating various pollutants The book also covers some known pollutants heavy metals organic pollutants microplastics and ways to manage these substances Other issues covered in the book include problems caused by invasive species and the ecological problems caused by pollutants which affect local fauna and flora This book will prove to be a

useful resource for students researchers and policymakers who are working in environmental science marine conservation and allied fields Series Intro Marine Ecology Current and Future Developments brings forth contemporary issues in the study of marine environments The scope of the series includes ecological toxicological and biological aspects of the topic Each volume of the series focuses on a broad theme with reviews contributed by several experts in the field The series is essential reading for environmental scientists ecologists conservationists and marine biologists

Marine Ecosystems: A Unique Source of Valuable Bioactive Compounds Hassan A.H. Ibrahim, Mostafa M. El-Sheekh, 2023-11-06 This reference highlights the significance of marine ecosystems encompassing seaweed beds seagrasses coral reefs mangroves estuaries and protected areas as a remarkable gateway to overcoming healthcare challenges and unlocking a rich trove of bioactive compounds for drug discovery One of the key highlights of this book is its exploration of the development of marine bio drugs a field that demands collaboration among scientists from both academic and industrial fronts The editors also include a prospective review on marine environments emphasizing the necessity for big data collective knowledge sharing financial support and streamlined administrative processes all of which contribute to enhancing innovation in the drug discovery process Another feature includes reference lists that allow researchers to explore topics of interest in depth With twelve comprehensive chapters this book extensively covers marine ecosystem biodiversity productivity protected areas and the intricate interplay of biotic and abiotic factors that shape these ecosystems Readers will learn about important bioactive compounds within marine organisms and how to use this knowledge to outline a strategy for bio drug discovery The book caters to a diverse audience of researchers students ecologists microbiologists pharmacologists and biotechnologists who are engaged in studying the dynamic components of marine environments By providing the latest insights and strategies in the realm of bio drug discovery from marine resources this book serves as an invaluable resource for scholars and professionals seeking to tap into the potential of these unique ecosystems

Encyclopedia of Marine Mammals William F. Perrin, Bernd Würsig, J.G.M. Thewissen, 2009-02-26 This thorough revision of the classic Encyclopedia of Marine Mammals brings this authoritative book right up to date Articles describe every species in detail based on the very latest taxonomy and a host of biological ecological and sociological aspects relating to marine mammals The latest information on the biology ecology anatomy behavior and interactions with man is provided by a cast of expert authors all presented in such detail and clarity to support both marine mammal specialists and the serious naturalist Fully referenced throughout and with a fresh selection of the best color photographs available the long awaited second edition remains at the forefront as the go to reference on marine mammals More than 20% NEW MATERIAL includes articles on Climate Change Pacific White sided Dolphins Sociobiology Habitat Use Feeding Morphology and more Over 260 articles on the individual species with topics ranging from anatomy and behavior to conservation exploitation and the impact of global climate change on marine mammals New color illustrations show every species and document topical articles FROM THE FIRST EDITION This book is so good a

bargain full of riches packed with fascinating up to date information I recommend it unreservedly it to individuals students and researchers as well as libraries Richard M Laws MARINE MAMMALS SCIENCE establishes a solid and satisfying foundation for current study and future exploration Ronald J Shusterman SCIENCE **Persistent Organic Pollutants in the Environment** Narendra Kumar,Vertika Shukla,2021-09-30 Persistent Organic Pollutants POPs are toxic degradation resistant bio accumulative and display wide spatial distribution which has been linked to mutagenic reproductive and immunological disorders In Stockholm Persistent Organic Pollutants POPs are toxic degradation resistant bio accumulative and display wide spatial distribution which has been linked to mutagenic reproductive and immunological disorders At the Stockholm Convention a global treaty was signed to minimize and ultimately eliminate the release of POPs into the environment The present compilation regarding POPs focusses on the sources atmospheric behavior terrestrial and aquatic food chain transfer human exposure and fate aspects of this important class of chemicals including topical issues like temporal trends in contamination Furthermore the chemical characteristics of individual POPs are also addressed Features Provides better understanding of Persistent Organic Pollutants POPs and how they affect humans and ecosystems Includes genesis categories environmental fate and behavior and associated hazards Reviews analytical techniques involved in detection human exposure and management Discusses environmental dynamics of POPs Focuses on the comprehensive account of PCDD Fs PCBs PAH and other organochlorine POPs such as DDT lindane and dieldrin This book is aimed at researchers professionals and graduate students in Life Science Occupational Health and Safety Chemical Engineering and Environmental Engineering **Modeling of Fate and Effects of Persistent Organic Pollutants** ,2011

Anthropogenic Pollution of Aquatic Ecosystems Donat-P. Häder,E. Walter Helbling,Virginia E. Villafañe,2021-09-30 This book provides examples of pollutants such as accidental oil spills and non degradable plastic debris which affect marine organisms of all taxa Terrestrial runoff washes large amounts of dissolved organic materials from agriculture and industry toxic heavy metals pharmaceuticals and persistent organic pollutants which end up into rivers coastal habitats and open waters While this book is not intended to encyclopaedically list all kinds of pollution it rather exemplifies the problems by concentrating on a number of serious and prominent recent developments The chapters in this book also discuss measures to decrease and remove aquatic pollution to mitigate the stress on aquatic organisms Aquatic ecosystems provide a wide range of ecological and economical services In addition to providing a large share of the staple diet for a fast growing human population oceans absorb most of the anthropogenically emitted carbon dioxide and mitigate climate change As well as rising temperatures and ocean acidification pollution poses increasing problems for aquatic ecosystems and organisms reducing its functioning and services which are exposed to a plethora of stress factors Contaminants of Emerging Concern in the Marine Environment Victor M. Leon,Juan Bellas,2023-03-13 Contaminants of emerging concern in the marine environment current challenges in marine pollution reviews the available data in relation to contaminants of emerging concern CECs in

the marine environment main sources transport pathways distribution in seawater and sediments bioaccumulation and biological effects Each chapter recaps the most relevant information about the main groups of CECs describing the particularities and specificities of each group and focusing on the most relevant individual contaminants CECs are not regulated substances and therefore not considered in national and international monitoring programs even though they may have a potential impact on the environment due to their continuous input relative persistence and or toxicity CECs are relevant not only in continental and coastal areas close to their main sources but also in the open sea because some of them are likely to be transported long distances through air deposition or absorbed into particulate material The persistence of many degradable substances in the marine environment increases when they are absorbed into particulate material sediments and or when they are subjected to anaerobic conditions that slow down the degradation kinetic of many contaminants Bioaccumulation of several CECs has been confirmed in different coastal organisms however in general the information available species and trophic levels considered is very limited because most studies are mainly focused on specific coastal areas This book offers useful information about not regulated contaminants that are not considered in international monitoring programs but have potential impacts in coastal and open sea areas Therefore reading the book will allow them to improve their view about the real impact of current use contaminants in the marine environment Presents a comprehensive view of the most relevant groups of CECs Includes an overview of each group of CECs including uses properties analysis distribution bioaccumulation and effects Provides information on all environmental compartments and marine areas coast continental shelf and open sea

Biomarkers in Marine Organisms Ph. Garrigues,H. Barth,C.H. Walker,Jean-François Narbonne,2001-11-07 Many previous studies and books have been dedicated to fundamental and developmental aspects of biomarkers The purpose of this book is to provide through various case studies an overview of the practical use of biological markers in marine animals to evaluate the health effects of environmental contamination in marine ecosystems More precisely the book presents the results obtained during the development and application of biological markers as indicators of exposure effect to toxic chemicals in marine environments using diverse sentinel species such as fish bivalves and crustaceans An important aspect is also the publication of technical annexes that describe in detail the experimental procedures developed for both chemical and biochemical measurement

Principles of Ecotoxicology C.H. Walker,R.M. Sibly,D.B. Peakall,2016-04-19 Cutting across traditional subject boundaries Principles of Ecotoxicology Fourth Edition gives readers an integrated view of ecotoxicology from molecules to ecosystems This new edition of a bestselling textbook continues to emphasize principles rather than practice providing the interdisciplinary perspective and grounding required for research

Marine Pollution - Emerging Issues and Challenges Elisabeth Marijke Anne Strain,Laura Airoidi,Kenneth Mei Yee Leung,Allyson O'Brien,Camille White,2022-07-04

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Oxidative Stress in Aquatic Ecosystems Doris Abele,Jose Pablo Vazquez-Medina,Tania Zenteno-Savin,2011-11-03 Reactive oxygen species ROS are increasingly appreciated as down stream effectors of cellular damage and dysfunction under natural and anthropogenic stress scenarios in aquatic systems This comprehensive volume describes oxidative stress phenomena in different climatic zones and groups of organisms taking into account specific habitat conditions and how they affect susceptibility to ROS damage A comprehensive and detailed methods section is included which supplies complete protocols for analyzing ROS production oxidative damage and antioxidant systems Methods are also evaluated with respect to applicability and constraints for different types of research The authors are all internationally recognized experts in particular fields of oxidative stress research This comprehensive reference volume is essential for students researchers and technicians in the field of ROS research and also contains information useful for veterinarians environmental health professionals and decision makers **Waste Management in the Coastal Areas of the ASEAN Region** Thia-Eng

Chua,Len R. Garces,1992-01-01 *Responsible Fisheries in the Marine Ecosystem* Michael Sinclair,Grimur Valdimarsson,2003 This book addresses ecological and environmental issues associated with responsible and sustainable marine fisheries It includes 22 chapters and has been developed from the Conference on Responsible Fisheries in the Marine Ecosystem held in Iceland in October 2001 Contents include a global overview of marine capture fisheries legal protection for marine ecosystems dynamics of marine ecosystems the role of man in marine ecosystems and incorporating ecosystem considerations in fisheries management The book has a subject index **Future Of Marine Life In A Changing Ocean,**

The: The Fate Of Marine Organisms And Processes Under Climate Change And Other Types Of Human Perturbation M Debora Iglesias-rodriguez,2019-12-24 This book brings together the state of our knowledge on the interactions between climate change and marine biota It focusses broadly on the environmental stressors during the Anthropocene period when human activities started to have a significant global impact on earth s geological imprint and ecosystems This period of rapid change is accompanied by rising carbon dioxide levels increasing global temperatures loss of oxygen in aquatic systems and the fast release of pollutants into the environment among many other environmental stressors

originating from large scale human activities such as widespread overfishing The Future of Marine Life in a Changing Ocean starts by providing the reader with a brief background on fundamental concepts in ocean science and climate It then moves on to a brief description of recent changes in marine chemistry such as ocean acidification a decline in oxygen levels in the oceans ocean warming and marine pollution with some examples of shifts in ecosystem diversity The chapters discuss these topics in the context of how a changing ocean impacts ecosystem health the biological carbon pump the sequestration of carbon dioxide from the surface ocean into the deep sea and the perceived notion of the ocean s unlimited resilience to maintain its role as a carbon reservoir Topics include threats to marine diversity ecosystem function latitudinal shifts in productivity and diversity and changes in global cycling of elements such as carbon It concludes with an analysis of the impact of climate change on food security Written for undergraduate and graduate students and researchers in the natural and social sciences this book provides a science background to study environmental change in marine ecosystems as well as a science framework to study policy marine law and the economics of climate change This book is an essential read for anyone hoping to understand key challenges facing our oceans

Ecotoxicology Michael C. Newman,William H.

Clements,2007-12-13 A unique presentation that unifies the field this book brings together concepts and information about contaminant effects at all levels of the biological hierarchy Beginning at the biomolecular level this book builds progressively toward a discussion of effects to the global biosphere Emphasizing ecological components and fundamental paradigms the authors strike a balance between the presentation of details relevant at each level and the integration of phenomena and processes among levels A milestone in the field the book is suitable for graduate courses as well as a reference for professionals in the field

**Proceedings of Seminar on Methodology for Monitoring the Marine Environment,
Seattle, Washington, October 1973 ,1974**

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