

Marine Debris

Sources, Impacts, and Solutions

James M. Coe
Donald B. Rogers

Editors



Springer

Marine Debris Sources Impacts And Solutions Springer Series On Environmental Management

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Marine Debris James M. Coe,Donald Rogers,2012-12-06 Marine debris is a global pollution problem affecting marine life maritime commerce and environmental quality Scientists policymakers and the public must be knowledgeable about the source impact and control efforts if effective solutions are to be developed Marine Debris addresses the origin of persistent solid waste in the ocean from urban and rural discharges to waste from ships and the recreational use of oceans The book identifies key issues from biological technological economic and legal perspectives and gives a framework for controlling each of the main sources of marine debris Management of Marine Plastic Debris Michael Niaounakis,2017-07-04

Management of Marine Plastic Debris gives a thorough and detailed presentation of the global problem of marine plastics debris covering every aspect of its management from tracking collecting treating and commercial exploitation for handling this anthropogenic waste The book is a unique essential source of information on current and future technologies aimed at reducing the impact of plastics waste in the oceans This is a practical book designed to enable engineers to tackle this problem both in stopping plastics from getting into the ocean in the first place as well as providing viable options for the reuse and recycling of plastics debris once it has been recovered The book is essential reading not only for materials scientists and engineers but also other scientists involved in this area seeking to know more about the impact of marine plastics debris on the environment the mechanisms by which plastics degrade in water and potential solutions While much research has been undertaken into the different approaches to the increasing problem of plastics marine debris this is the first book to present evaluate and compare all of the available techniques and practices and then make suggestions for future developments The book also includes a detailed discussion of the regulatory environment including international conventions and standards and national policies Reviews all available processes and techniques for recovering cleaning and recycling marine plastic debris Presents and evaluates viable options for engineers to tackle this growing problem including the use of alternative polymers Investigates a wide range of possible applications of marine plastics debris and opportunities for businesses to make a positive environmental impact Includes a detailed discussion of the regulatory environment including international conventions and standards and national policies **Polymer Waste Management** Johannes Karl

Fink,2018-08-28 The world is literally awash with plastics and this book practically provides a broad overview of plastic recycling procedures and waste management With the huge amount of plastics floating in the oceans fish and other sea creatures are directly suffering the consequences On land city leaders and planners are banning one use plastics as well as plastic bags from grocery stores in an effort to stem the use Many countries have made official announcements and warnings concerning the pollution caused from plastic wastes These urgent developments have stimulated the author to study the problem and write Polymer Waste Management Plastic recycling refers to a method that retrieves the original plastic material However there are many sophisticated methods available for the treatment and management of waste plastics such

as basic primary recycling where the materials are sorted and collected individually In chemical recycling the monomers and related compounds are processed by special chemical treatments Other methods such as pyrolysis can produce fuels from waste plastics These methods and others are treated comprehensively in the book This groundbreaking book also discusses General aspects such as amount of plastics production types of waste plastics analysis procedures for identification of waste plastic types standards for waste treatment contaminants in recycled plastics Environmental aspects such as pollution in the marine environment and landfills The advantages of the use of bio based plastics Recycling methods for individual plastic types and special catalysts

Health of Antarctic Wildlife Knowles R. Kerry, Martin Riddle, 2009-07-29 comprehensively up to date We are most grateful to these authors and to those we recruited to write the additional chapters necessary to fill the significant gaps We acknowledge also the sacrifice of some who presented results of original research and have thus suffered a longer time than usual to publication The timing of publication however has provided the opportunity to highlight recent discussions and resolutions made within the Antarctic Treaty forum to protect wildlife against disease and to include responses by Government and non Government operators in Antarctica These developments mostly followed from the Workshop on Diseases of Antarctic Wildlife The book comprises 17 chapters presented in two parts Wildlife disease consists of reviews case studies and health assessments and External factors covers the environmental administrative and legal aspects Each chapter is complete and contains all references Six important documents are provided as Appendices These present methods reviews and other documents which are referred to in one or more chapters but are not readily available There are many related topics we have been unable to cover that would enhance the understanding of health and disease processes in Antarctica While we acknowledge their importance they are outside the scope of the present volume Such topics include epidemiology new and emerging infectious diseases and the effects of climate change These topics are referred to in the various chapters where references to source material are given

Marine and Fisheries Policies in Latin America Manuel Ruiz Muller, Rodrigo Oyanedel, Bruno Monteferri, 2019-09-30 This book reviews the frameworks and implementation of marine fishery and coastal laws and policies in Chile Mexico and Peru Chile Mexico and Peru share biodiverse coastal and marine environments which are being affected by unregulated and informal developments and thus share similar challenges Each country is currently at a different stage of advancement in their institutional response to these complex challenges By providing a comparison of the frameworks approaches and overall implementation of policies and laws this book acts as a tool to influence and inform further efforts in conservation and sustainable use of marine resources particularly fisheries in these countries and others in Latin America and the Caribbean A broad range of issues are covered including food security tourism fisheries oil and mineral extraction from the seabed wind power coastal and marine pollution and endangered species conservation The chapters compare how each country addresses these issues from an institutional legal and policy perspective The book concludes by identifying common lessons reoccurring challenges and develops scalable

recommendations applicable to the case study countries and the wider region The book will be of interest to advanced students policy makers and researchers in marine and fishery science law and policy

Marine Pollution and Climate Change Andres Hugo Arias,Jorge Eduardo Marcovecchio,2017-09-18 This book presents a broad overview of pollution issues facing climatic economic and legal globalization Topics include changes in oceans from ancient times to the present the importance of marine currents and changing climates marine pollution linked to climate change fossil fuels global carbon dioxide heavy metals pesticides plastics emerging pollutants and marine debris global shipping and species invasion global climate change in the Arctic and Antarctic environments and regulatory responses to mitigate pollution and climate change in oceans

North Atlantic Right Whales David W. Laist,2017-03-29 The fascinating story of North Atlantic right whales from their evolutionary origin through a thousand year history of relentless pursuit by whalers to ongoing efforts to rescue them from the brink of extinction In the cold waters of the unforgiving North Atlantic Ocean some of the heartiest humans of medieval days ventured out in search of whales Through the centuries people on both sides of the Atlantic became increasingly dependent on whale oil and other cetacean products To meet this growing demand whaling became ever more sophisticated and intense leading to the collapse of what was once a seemingly inexhaustible supply of large cetaceans Central to the whale s subsequent struggle for existence has been one species the North Atlantic right whale Conservationist David W Laist now provides the first complete history of the North Atlantic right whale from its earliest encounters with humans to its close brush with extinction to its currently precarious yet hopeful status as a conservation icon Favored by whalers because of their high yields of oil and superior baleen these giants became known as the right whale to hunt and their numbers dwindled to a mere 100 individuals worldwide Their dire status encouraged the adoption of a ban on hunting and a treaty that formed the International Whaling Commission Recovery of the species however has proven elusive Ship strikes and entanglement in commercial fishing gear have hampered herculean efforts to restore the population Today only about 500 right whales live along the US and Canadian Atlantic coasts an improvement from the early twentieth century but still a far cry from the thousands that once graced Atlantic waters Laist s masterpiece features an incredible collection of photographs and artwork that give life to the fascinating history that unfolds in its pages The result is a single volume that offers a comprehensive understanding of North Atlantic right whales the role they played in the many cultures that hunted them and our modern attempts to help them recover

Environmental Problem Solving Alan Miller,2013-12-01 Human influences create both environmental problems and barriers to effective policy aimed at addressing those problems In effect environmental managers manage people as much as they manage the environment Therefore they must gain an understanding of the psychological and sociopolitical dimensions of environmental problems that they are attempting to resolve In *Environmental Problem Solving* Alan Miller reappraises conventional analyses of environmental problems using lessons from the psychosocial disciplines He combines the disciplines of ecology political sociology and psychology to

produce a more adaptive approach to problem solving that is specifically geared toward the environmental field Numerous case studies demonstrate the practical application of theory in a way that is useful to technical and scientific professionals as well as to policy makers and planners Alan Miller is Professor of Psychology at the University of New Brunswick

Plastisphere Meththika Vithanage, Adil Bakir, Nicole R. Posth, 2025-06-30 The plastisphere provides a unique man made habitat for organisms and microbial communities Investigating the interactions and functions of these organisms helps us understand how fouling communities can settle on these novel platforms and be moved beyond their natural ranges as well as their contribution to nutrient cycling and biogeochemical processes This book examines the plastisphere and reveals a secret world of microbes that have adapted to live on plastic surfaces It explains the ecological effects of plastic pollution human health concerns microbial ecology and mitigation techniques and advocates sustainable solutions Readers will dive into this enthralling ecosystem rich with microscopic life and explore its mysteries in this thought provoking book Features Presents recent insights into the fundamentals of the plastisphere with a specific focus on environmental interactions Introduces the work of global experts and their ongoing studies creative approaches and new discoveries Highlights the macro and molecular interactions of environmental domains with the plastisphere Explores the notion of bioinvasion that can threaten the health and productivity of our ecosystems Includes detailed multidisciplinary data on the behavior of plastic materials and environmental microbiome Explains the main factors causing ecosystems to evolve and to live in human made plastic environments Helps readers from various backgrounds to gain a thorough understanding of the topic of the plastisphere This book is an insightful reference for researchers academics students and professionals in Environmental Science Microbiology Environmental Engineering Oceanography and Material Science

Environmental Damage Caused by Marine Litter Ho Jeong Dan, 2024-12-09 This book provides a timely analysis of the limitations of existing international legal frameworks for solving the problem of marine litter Ho Jeong Dan expertly examines international law principles related to allocating responsibility for marine litter and proposes a plan to combat the issue effectively

The Ecology of Transportation: Managing Mobility for the Environment John Davenport, Julia L. Davenport, 2006-06-30 Human transport by land sea and air has increased exponentially through time in intensity paralleling rises in population prosperity and rates of technological change Transport has considerable ecological effects many of them detrimental to environmental sustainability This volume brings together international experts from a variety of disciplines to review the ecological effects and their causes in terms of road rail ship and aircraft transport The contributors have different attitudes and agendas Some are ecologists some planners others social scientists Focus ranges from identification of threats and amelioration of damaging effects through to future design of transport systems to minimize environmental degradation Some chapters consider restricted areas of the globe others the globe itself Views encompass deep pessimism and cautious optimism

Environmental Science for Environmental Management Timothy O'Riordan, 2014-10-13 Environmental Science for

Environmental Management has quickly established itself as the leading introduction to environmental science demonstrating how a more environmental science can create an effective approach to environmental management on different spatial scales Since publication of the first edition environmentalism has become an increasing concern on the global political agenda Following the Rio Conference and meetings on population social justice women urban settlement and oceans civil society has increasingly promoted the cause of a more radical agenda ranging from rights to know fair trade social empowerment social justice and civil rights for the oppressed as well as novel forms of accounting and auditing This new edition is set in the context of a changing environmentalism and a challenged science It builds on the popularity and applicability of the first edition and has been fully revised and updated by the existing writing team from the internationally renowned School of Environmental Science at the University of East Anglia Environmental Science for Environmental Management is an essential text for for undergraduate students of environmental science environmental management planning and geography It is invaluable supplementary reading for environmental biology and environmental chemistry courses as well as for engineering economics and business studies

Encyclopedia of the Anthropocene ,2017-11-27
Encyclopedia of the Anthropocene Five Volume Set presents a currency based global synthesis cataloguing the impact of humanity s global ecological footprint Covering a multitude of aspects related to Climate Change Biodiversity Contaminants Geological Energy and Ethics leading scientists provide foundational essays that enable researchers to define and scrutinize information ideas relationships meanings and ideas within the Anthropocene concept Questions widely debated among scientists humanists conservationists politicians and others are included providing discussion on when the Anthropocene began what to call it whether it should be considered an official geological epoch whether it can be contained in time and how it will affect future generations Although the idea that humanity has driven the planet into a new geological epoch has been around since the dawn of the 20th century the term Anthropocene was only first used by ecologist Eugene Stoermer in the 1980s and hence popularized in its current meaning by atmospheric chemist Paul Crutzen in 2000 Presents comprehensive and systematic coverage of topics related to the Anthropocene with a focus on the Geosciences and Environmental science Includes point counterpoint articles debating key aspects of the Anthropocene giving users an even handed navigation of this complex area Provides historic seminal papers and essays from leading scientists and philosophers who demonstrate changes in the Anthropocene concept over time

Environmental Health Perspectives ,1993
Fishery Management Plan for Deep-sea Red Crab (Chaceon Quinquedens) ,2002 The Mitigation of Marine Plastic Pollution in International Law Judith Schäli,2022-04-19 The open access publication of this book has been published with the support of the Swiss National Science Foundation The massive accumulation of plastics in marine environments is one of the most pressing environmental concerns of our time This book examines the relevant international legal framework applying to land based sources of plastic pollution Against the backdrop of the dynamics of recent policy formulation in this field it

outlines the main developments and provides a snapshot inventory of state obligations related to plastic pollution mitigation. The *Mitigation of Marine Plastic Pollution in International Law* identifies the main barriers and opportunities and points out the possible building blocks of an enhanced regime.

Citizen Science for Coastal and Marine Conservation John A. Cigliano, Heidi L. Ballard, 2017-10-31 In recent years citizen science has emerged as a powerful new concept to enable the general public students and volunteers to become involved in scientific research. A prime example is in biodiversity conservation where data collection and monitoring can be greatly enhanced through citizen participation. This is the first book to provide much needed guidance and case studies from marine and coastal conservation. The novelty and rapid expansion of the field has created a demand for the discussion of key issues and the development of best practices. The book demonstrates the utility and feasibility as well as limitations of using marine and coastal citizen science for conservation and by providing critical considerations i.e. which questions and systems are best suited for citizen science presents recommendations for best practices for successful marine and coastal citizen science projects. A range of case studies for example on monitoring of seabird populations invasive species plastics pollution and the impacts of climate change from different parts of the world is included. Also included are discussions on engaging youth indigenous communities and divers and snorkelers as citizen scientists as well as best practices on communication within citizen science building trust with stakeholders and informing marine policy as part of this exciting and empowering way of improving marine and coastal conservation.

Analysis of Nanoplastics and Microplastics in Food Leo M.L. Nollet, Khwaja Salahuddin Siddiqi, 2020-12-02 The world's ever increasing use of plastics has created large areas of floating plastic waste in the oceans so called plastic soup. This floating plastic debris is gradually fragmenting into smaller particles which eventually become microplastics and even nanoplastics. *Analysis of Nanoplastics and Microplastics in Food* compiles data on nanoplastics and microplastics in food. To date there is some data on this particularly for the marine environment. Fish show high concentrations but because microplastics are mostly present in the stomach and intestines they are usually removed and consumers are not exposed. But in crustaceans and bivalve molluscs like oysters and mussels the digestive tract is consumed so there is some exposure. Microplastics have also been reported in honey beer and table salt.

Key Features Discusses sampling and analysis of nano and microplastics. Details the impacts of plastic residues in diverse compartments of the environment. Includes a discussion of microplastics in freshwater. Discusses interactions of microplastics and POPs. This book brings to light the reality and dangers of microplastics in food. Pollutants like polychlorinated biphenyls PCBs and polycyclic aromatic hydrocarbons PAHs can accumulate in microplastics. Some studies suggest that after consuming microplastics in food these substances may transfer into tissues. So it is important to estimate the average intake. Since engineered nanoparticles from different types of nanomaterials can enter human cells this reality can pose consequences for human health. Also available in the *Food Analysis and Properties Series* *Mass Spectrometry Imaging in Food Analysis* edited by Leo

M L Nollet ISBN 978 1 138 37069 2 Proteomics for Food Authentication edited by Leo M L Nollet and Semih tle ISBN 978 0 367 20505 8 Food Aroma Evolution During Food Processing Cooking and Aging edited by Matteo Bordiga and Leo M L Nollet ISBN 978 1 138 33824 1 For a complete list of books in this series please visit our website at www.crcpress.com Food Analysis Properties book series CRCFOODANPRO *Annual Report of the Marine Mammal Commission* United States. Marine Mammal Commission,1996 Fishes in Estuaries Michael Elliott,Krystal L. Hemingway,2008-04-15 This landmark publication collates information and studies on the use of estuaries and specific habitats within them as nursery feeding and refuge areas and migration routes of marine and other fish many of which are of commercial and conservation importance The editors and authors of the book have carefully compiled a huge wealth of information from the work of 18 organizations across 11 countries providing a unique collection of data never before brought together within the covers of one book Chapters within this exceptional publication cover habitat use by fishes recruitment and production in estuaries links between fish and other trophic levels endangered and rare species estuarine development and restoration environmental quality of estuaries and the management of estuarine fishes The book notably contains extensive chapters on field methods and data analysis Fishes in Estuaries is an essential tool and reference source for fisheries and environmental managers fish biologists environmental scientists aquatic ecologists and conservation biologists Libraries in all universities and research establishments where biological sciences are studied and taught should have copies of this book on their shelves as should personnel employed in regulatory and consultant capacities such as within rivers authorities environment agencies and fish and wildlife departments Comprehensive coverage of commercially exploited species Internationally known and respected contributors Multi contributor approach providing very detailed coverage Estuaries are a vitally important ecosystem

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