

The Handbook of Environmental Chemistry 41  
Series Editors: Damià Barceló · Andrey G. Kostianoy

Angela Carpenter *Editor*

# Oil Pollution in the North Sea

 Springer

# Oil Pollution In The North Sea The Handbook Of Environmental Chemistry

**Katrin Schroeder, Jacopo Chiggiato**



## **Oil Pollution In The North Sea The Handbook Of Environmental Chemistry:**

*Oil Pollution in the North Sea* Angela Carpenter, 2015-11-27 This volume offers a review of measures taken at different levels to prevent oil inputs to the North Sea from sources such as shipping and oil installations A range of data from satellites remote sensing aerial surveillance in situ monitoring oil spill sampling and beached bird surveys presents a comprehensive portrait of trends in oil pollution over many years Topics include Bonn Agreement based actions to eliminate illegal and accidental pollution from ships OSPAR monitoring of oil installations EMSA CleanSeaNet activities and an internationally approved common standard for oil spills presented by the Bonn OSINet A chapter on the role of the IMO in preventing oil pollution from ships provides an international context while others discuss efforts being made at the national level A decadal review of the state of the North Sea prepared by OSPAR supports the view that there has been a significant reduction of oil inputs to the sea This thorough review addresses national and international agencies and government bodies as well as policymakers and practitioners in the fields of shipping ports and terminals oil extraction and marine management Further it provides researchers with essential reference material on tools and techniques for monitoring oil pollution and offers a valuable resource for undergraduate and post graduate students in the field of marine oil pollution

**Oil Pollution in the Mediterranean Sea: Part I** Angela Carpenter, Andrey G. Kostianoy, 2019-05-06 This volume offers a review of oil inputs to the Mediterranean Sea from sources such as shipping and offshore exploration and exploitation activities It discusses international measures to prepare for respond to and prevent oil pollution incidents as well as the international legal framework and agencies with a role in pollution prevention and responses It includes chapters on modeling the fate of oil pollution oil spill response and oil spill beaching probability and presents data from a range of sources including historic data on shipping accidents and oil exploration and exploitation activities satellite and remote sensing data and numerical modelling data to provide an overview of oil pollution over several years Topics covered include modelling of oil slicks in the eastern and western Mediterranean basins oil exploration and exploitation activities in the waters of the Levantine Basin Eastern Mediterranean and signatures to and ratification of the Barcelona Convention and its Protocols for example Together with the companion volume *Oil Pollution in the Mediterranean Sea Part II National Case Studies* it addresses both national and international measures in the region making it of relevance to the agencies and government bodies tasked with remediating or preventing oil pollution as well as policymakers and practitioners in the fields of shipping ports and terminals oil extraction and marine management It provides researchers with essential reference material on tools and techniques for monitoring oil pollution and serves as a valuable resource for undergraduate and postgraduate students in the field of marine oil pollution

**Oil Pollution in the Mediterranean Sea: Part II** Angela Carpenter, Andrey G. Kostianoy, 2019-02-27 This volume reviews the oil inputs to the Mediterranean Sea from sources such as shipping offshore oil installations and oil refineries presented in a number of national case studies A regional overview is also presented for the Adriatic Sea Topics

include mapping of oil slicks in the Adriatic oil exploration and exploitation activities in the waters of the Levantine Basin Eastern Mediterranean the oil pollution preparedness and response activities of individual Mediterranean states bilateral and regional cooperation among the various states and the risk of pollution from shipping in sensitive sea areas for example Together with the companion volume *Oil Pollution in the Mediterranean Sea Part I The International Context* it addresses both national and international measures in the region making it of relevance to the agencies and government bodies tasked with remediating or preventing oil pollution as well as policymakers and practitioners in the fields of shipping ports and terminals oil extraction and marine management It provides researchers with essential reference material on tools and techniques for monitoring oil pollution and constitutes a valuable resource for undergraduate and post graduate students in the field of marine oil pollution

*Standard Handbook Oil Spill Environmental Forensics* Scott Stout,Zhendi Wang,2016-02-03 *Standard Handbook Oil Spill Environmental Forensics Fingerprinting and Source Identification* Second Edition provides users with the latest information on the tools and methods that have become popular over the past ten years The book presents practitioners with the latest environmental forensics techniques and best practices for quickly identifying the sources of spills how to form an effective response and how to determine liability This second edition represents a complete overhaul of the existing chapters and includes 13 new chapters on methods and applications such as emerging application of PAHi isomers in oil spill forensics development and application of computerized oil spill identification COSI and fingerprinting of oil in biological and passive sampling devices Contains 13 new chapters on methods and applications including emerging application of PAH isomers in oil spill forensics the development and application of computerized oil spill identification COSI and the fingerprinting of oil in biological and passive sampling devices Presents the latest technology and methods in biodegradation of oil hydrocarbons and its implications for source identification surface trajectory modeling of marine oil spills and identification of hydrocarbons in biological samples for source determination Contains new case studies to illustrate key applications methods and techniques

*Oil Pollution in the Baltic Sea* Andrey G. Kostianoy,Olga Yu Lavrova,2014-07-08 This thorough review is based on observational satellite airborne and in situ data scientific literature and technical reports as well as the substantial experience of the authors who hail from several Baltic Sea countries They pay special attention to national practices HELCOM and EMSA CleanSeaNet activities in oil pollution monitoring and show different applications of the Seatrack Web model for oil spill drift prediction and the identification of illegal polluters as well as for environmental risk assessment Furthermore some of the results on satellite monitoring of the Nord Stream gas pipeline construction in the Gulf of Finland are presented This volume addresses the needs of specialists working in different fields of marine environmental and remote sensing sciences It is a useful handbook on oil pollution for international and governmental agencies as well as for policy makers who plan and manage oil and gas projects the construction of ports and terminals shipping fishery recreation and tourist activities in the Baltic Sea It also offers graduate and undergraduate

students in marine and environmental sciences a valuable resource and reference work on the subject

**Ghost Marine Oil Spills** Amran Al-Kamzari, Tim Gray, Grant Burgess, Clare Fitzsimmons, 2025-02-05 This book investigates the problem of ghost or untraceable small scale oil spills at sea Ghost spills which are spills for which the spillers cannot be traced are much more common than traceable spills and small scale spills are much more common than large scale spills This is something of a unique study as the subject of small scale ghost spills is very much under researched despite its importance Small scale ghost spills cause a significant amount of ecological environmental economic and social damage and are a violation of environmental justice because the perpetrators escape having to pay for clean up and compensation Instead of the polluter paying the polluted coastal communities which are often impoverished end up bearing these costs This is clearly unfair The Musandam Peninsula serves as a case study because of its strategic location in the Strait of Hormuz a major oil transport route in the Arabian Gulf Residents report that oil slicks and tar balls on Musandam's coast result from tanker and ship discharges in the Strait of Hormuz There are compensation schemes available to meet the costs of marine oil spills but they generally require proof that a spill has been caused by a vessel and such proof is very hard to obtain in the case of small scale ghost spills The stakeholders interviewed in this study emphasized the need for greater community involvement in decision making over dealing with small scale ghost spills The book could be adopted as recommended reading for MSC modules on Marine Pollution Control Environmental Impact of Oil Spills Maritime Law Environmental Regulations and Coastal Management and Conservation

**Marine Pollution - Monitoring, Management and Mitigation** Amanda Reichelt-Brushett, 2023-05-11 The study of marine environments inevitably involves considering the problem of marine pollution which includes questions that focus on the essential need to ensure the long term health of these exceptional ecosystems and the lives and livelihoods they support The open access textbook Marine Pollution monitoring management and mitigation approaches these questions in a practical and highly readable format It gives newcomers to the field background and perspective through the first comprehensive multidisciplinary exploration of the topic The topic is indeed complex requiring the integration of the natural sciences and chemistry with management policymakers industry and all of us who are users of the marine environment The textbook was written by leading experts to especially prepare graduates for a career in marine pollution studies At the same time it is relevant for anyone invested in the marine environment with a will to reduce their impacts The chapters can easily be used independently and are also connected through the cross referencing of related content The introductory chapter provides a historical account of marine pollution and explores the fundamental physicochemical conditions of seawater Two full chapters cover the requisite resources for ensuring success in field and laboratory studies Then chapter by chapter the book dives into the various types of marine pollutants In closing it discusses the challenges of understanding multiple stressors and presents mitigation and restoration practices along with a global overview of marine pollution legislation We envisioned this textbook as being open access for the very reason we

created it this topic calls for global contributions and champions and financial restraints should not limit access to this knowledge

**Oil Spill Environmental Forensics Case Studies** Scott Stout,Zhendi Wang,2017-10-22 Oil Spill Environmental Forensics Case Studies includes 34 chapters that serve to present various aspects of environmental forensics in relation to real world oil spill case studies from around the globe Authors representing academic government and private researcher groups from 14 countries bring a diverse and global perspective to this volume Oil Spill Environmental Forensics Case Studies addresses releases of natural gas methane automotive gasoline and other petroleum fuels lubricants vegetable oils paraffin waxes bitumen manufactured gas plant residues urban runoff and of course crude oil the latter ranging from light Bakken shale oil to heavy Canadian oil sands oil New challenges surrounding forensic investigations of stray gas in the shallow subsurface volatiles in air dissolved chemicals in water including passive samplers and biological tissues associated with oil spills are included as are the effects and long term oil weathering long term monitoring in urbanized and non urbanized environments fate and transport forensic historical research new analytical and chemical data processing and interpretation methods Presents cases in each chapter on the application of specific oil spill environmental forensic techniques Features chapters written by international experts from both academia and industry Includes relevant concepts and theories elucidated for each theme

Sustainability in the Maritime Domain Angela Carpenter,Tafsir M. Johansson,Jon A. Skinner,2021-05-29 This volume explores options for a sustainable maritime domain including maritime transportation such as Maritime Spatial Planning MSP maritime education and training maritime traffic and advisory systems maritime security Other activities in the maritime domain covered in the book include small scale fisheries and sustainable fisheries and greening the blue economy The book aims to provide the building blocks needed for a framework for good ocean governance a framework that will serve through the next decade and and hopefully well beyond the 2030 milestone of the UN Agenda for Sustainable Development In short this book brings together the problems of the current world and sustainable solutions that are in the development process and will eventually materialize in the not so distant future Additionally the book presents a trans disciplinary analysis of integral sustainable maritime transportation solutions and crucial issues relevant to good ocean governance that have recently been discussed at different national regional and international fora highlighting ongoing work to develop and support governance systems that facilitate industry requirements and meet the needs of coastal states and indigenous peoples of researchers of spatial planners and of other sectors dependent on the oceans The book will be of interest to researchers across many disciplines especially those that are engaged in cross sectoral research and developments in the maritime transport sector and across the wider maritime domain To this end the book covers areas including natural and social sciences geographical studies spatial planning maritime security and gender studies as they relate to transport and the wider maritime sector In addition the book explores frameworks for sustainable ocean governance being developed under the UN s Agenda for Sustainable Development to 2030 It will also look beyond the 2030 milestone

under that Agenda and will be of use to national and international policymakers and practitioners government actors at the EU and other regional and national levels and to researchers of ocean governance sustainability and management and maritime transport

**Oil Spill Monitoring Handbook** Sharon Hook, Graeme Batley, Andrew Ross, Michael Holloway, Paul Irving, 2016-10-03 Oil spills can be difficult to manage with reporting frequently delayed Too often by the time responders arrive at the scene the slick has moved dissolved dispersed or sunk This Oil Spill Monitoring Handbook provides practical advice on what information is likely required following the accidental release of oil or other petroleum based products into the marine environment The book focuses on response phase monitoring for maritime spills otherwise known as Type I or operational monitoring Response phase monitoring tries to address the questions what where when how how much that assist responders to find track predict and clean up spills and to assess their efforts Oil spills often occur in remote sensitive and logistically difficult locations often in adverse weather and the oil can change character and location over time An effective response requires robust information provided by monitoring observation sampling and science The Oil Spill Monitoring Handbook completely updates the Australian Maritime Safety Authority's 2003 edition of the same name taking into account the latest scientific advances in physical chemical and biological monitoring many of which have evolved as a consequence of major oil spill disasters in the last decade It includes sections on the chemical properties of oil the toxicological impacts of oil exposure and the impacts of oil exposure on different marine habitats with relevance to Australia and elsewhere An overview is provided on how monitoring integrates with the oil spill response process the response organisation the use of decision support tools such as net environmental benefit analysis and some of the most commonly used response technologies Throughout the text examples are given of lessons learned from previous oil spill incidents and responses both local and international General guidance of spill monitoring approaches and technologies is augmented with in depth discussion on both response phase and post response phase monitoring design and delivery Finally a set of appendices delivers detailed standard operating procedures for practical observation sample and data collection The Oil Spill Monitoring Handbook is essential reading for scientists within the oil industry and environmental and government agencies individuals with responder roles in industry and government environmental and ecological monitoring agencies and consultants and members of the maritime sector in Australia and abroad including officers in ports shipping and terminals

**Challenges and Critiques of the EU Internal Security Strategy** Maria O'Neill, Ken Swinton, 2017-11-06 This collection of papers examines a variety of areas and issues related to or raised by the EU Internal Security Strategy It covers such matters as critical infrastructure protection and environmental crime from a range of disciplinary perspectives including law geography and politics The EU Internal Security Strategy is becoming increasingly complex as it develops over time as it has to operate against the background of growing diversity in law enforcement systems across EU member states It is clear that the EU Internal Security Strategy is and will continue to be for a long time a work in progress not only in its aim

to address traditional transnational security threats but also in reacting to emerging concerns either in new crime areas or issues arising from the implementation of earlier phases of the strategy This will be a subject matter for many academic discipline areas for some time to come *Petroleum and Marine Technology Information Guide* J. Hutcheon,A. Myers,S. Oue,B. Rodden,J. Whittick,2003-09-02 First published in 1981 as the Offshore Information Guide this guide to information sources has been hailed internationally as an indispensable handbook for the oil gas and marine industries

*Instrumentation and Measurement Technologies for Water Cycle Management* Anna Di Mauro,Andrea Scozzari,Francesco Soldovieri,2022-11-23 This book aims at presenting a unified framework for the description of working principles recent advances and applications of cutting edge measurement technologies for the water sector Instrumentation and measurement technologies are currently playing a key role in the monitoring assessment and protection of environmental resources Measurement techniques and sensing methods for the observation of water systems are rapidly evolving and are requiring an increased multi disciplinary participation The whole water sector is characterised by multiple technological contexts concerning the monitoring of the resource given the broad coverage that includes water from its natural domains to the men made infrastructures In particular instrumentation and measurement technologies have a pervasive presence in all the necessary aspects for the assessment monitoring and control of the water resource and of its relationship with the various environmental stressors including the anthropic pressures Therefore the book aims at presenting how the diagnostics monitoring methodologies and the related technologies can give an answer to the issues raised by the complex scenario characterising the water cycle management WCM The book is structured in five topical sections grouped by similarity of their technological and or applicative contexts **Large Floating Solutions** Brydon T.

Wang,Chien Ming Wang,Kim Weinert,Rutger de Graaf-van Dinther,2025-09-26 Large Floating Solutions builds on the foundations laid in Large Floating Structures Technological Advances extending the analysis to the next generation of Very Large Floating Structures VLFS as integrated climate adaptive urban systems This volume provides a comprehensive examination of the engineering environmental and architectural innovations required to deliver modular resilient floating cities alongside offshore energy aquaculture and transport infrastructure It addresses the complex legal regulatory and governance frameworks that underpin buoyant urbanism including property rights environmental compliance and international law and considers the role of artificial intelligence and autonomous maritime systems in urban management Together these contributions position floating infrastructure as a critical solution to escalating global water challenges

Managing Water Resources and Hydrological Systems Brian D. Fath,Sven Erik Jorgensen,2020-07-29 Bringing together a wealth of knowledge Environmental Management Handbook Second Edition gives a comprehensive overview of environmental problems their sources their assessment and their solutions Through in depth entries and a topical table of contents readers will quickly find answers to questions about environmental problems and their corresponding management



issues This six volume set is a reimagining of the award winning Encyclopedia of Environmental Management published in 2013 and features insights from more than 400 contributors all experts in their field The experience evidence methods and models used in studying environmental management are presented here in six stand alone volumes arranged along the major environmental systems Features The first handbook that demonstrates the key processes and provisions for enhancing environmental management Addresses new and cutting edge topics on ecosystem services resilience sustainability food energy water nexus socio ecological systems and more Provides an excellent basic knowledge on environmental systems explains how these systems function and offers strategies on how to best manage them Includes the most important problems and solutions facing environmental management today In this fourth volume Managing Water Resources and Hydrological Systems the reader is introduced to the general concepts and processes of the hydrosphere with its water resources and hydrological systems This volume serves as an excellent resource for finding basic knowledge on the hydrosphere systems and includes important problems and solutions that environmental managers face today This book practically demonstrates the key processes methods and models used in studying environmental management

**Oceanography of the Mediterranean Sea** Katrin Schroeder, Jacopo Chiggiato, 2022-10-16 Oceanography of the Mediterranean Sea An Introductory Guide provides a comprehensive but concise introduction to the physical oceanography of one of the most fascinating marginal seas the Mediterranean Sea The book is primarily focused on the state of the art understanding of the physical functioning of the Mediterranean Sea while embracing the fundamentals of associated geological and chemical processes Written by multiple scientists active over many years in the Mediterranean marine community the book provides a broad overview on the information needed to get a robust background on the physical oceanography of the Mediterranean Sea for students in oceanography climate science marine geology and chemistry or scientists unfamiliar with the region Provides a comprehensive but concise introduction to the physical oceanography of the Mediterranean Sea Presents the existing links between climate ocean biogeochemical cycles and geological evolution at the Mediterranean scale Presents clear examples of the Mediterranean region as well as comparisons with other regions globally

**ENVIRONMENTAL AND ECOLOGICAL CHEMISTRY - Volume II** Aleksandar Sabljic, 2009-02-04 Environmental and Ecological Chemistry is a component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Environmental and Ecological Chemistry presents the essential aspects such as Fundamental Environmental Chemistry Atmospheric Chemistry Soil Chemistry Aquatic Chemistry Ecological Chemistry Chemistry of Organic Pollutants Including Agrochemicals These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Selected Water Resources Abstracts** ,1990 *Marine Mammal Health and Stranding Response Program* ,2009 **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.

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