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Titolo	Handbook on Marine Environment Protection : Science, Impacts and Sustainable Management // edited by Markus Salomon, Till Markus
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ISBN	3-319-60156-3
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (1,024 pages) : color illustrations, maps, photographs
Disciplina	333.95616
Soggetti	Water Hydrology Environmental sciences - Social aspects Environmental law, International Environmental Social Sciences International Environmental Law
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Part I: Natural science basics -- Introduction into physical oceanography -- Ecological organization of the sea -- Marine ecosystem services -- Part II: Impacts of sectoral marine activities -- Impact of fishing activities on marine life -- Mariculture -- Shipping -- Coastal development (ports, marinas, waterfront cities, coastal defense) -- Offshore Oil and Gas Production and Transportation -- Exploitation of Offshore Wind Energy -- Dredging of Marine Environments for Sand, Gravel, and Sediments -- Environmental Risks of Deep-sea Mining -- Dumped munitions -- Marine Climate Engineering -- Part III: Impacts of land-based activities -- Agriculture -- Land based industries -- Land-based Wastewater Management -- Tourism -- Part IV: Pollution from diffuse sources -- Climate change: warming impacts on marine biodiversity -- Ocean acidification -- Pollution with hazardous substances -- Pollution with radioactive substances -- Eutrophication -- Marine litter -- Input of energy/underwater noise -- Introduction of non-indigenous species -- Part V: Social drivers, developments, and perspectives of increasing ocean uses -- A Short History of the Use of

Seas and Oceans -- Factors behind increasing ocean use -- Part VI  
General aspects of management and governance of human activities --  
Challenges and foundations of sustainable ocean governance --  
Institutional Framework for Marine Environmental Governance --  
International Principles of Marine Environment Protection -- Overview  
of Management Strategies and Instruments -- Future prospects of  
marine environmental governance -- Part VII: Traditional marine  
management topics -- The International Legal Framework for  
Conservation and Management of Fisheries and Marine Mammals --  
Aqua- and Mariculture Management -- Offshore Oil and Gas  
Exploitation -- Sustainable Shipping -- Management of Hazardous  
Substances in the Marine Environment -- Pollution with Radioactive  
Substances: Science, Impacts, and Sustainable Management --  
Waste/litter and sewage management -- Coastal and Ocean Tourism --  
Part VIII: Emerging management topics -- The Greening of Ports --  
Offshore Wind Farms -- Wave and Tidal Energy -- Deep-seabed mining  
-- Marine Biodiversity: Opportunities for Global and Management  
Coherence -- Marine Protected Areas -- Marine Environmental  
Protection and Climate Change -- Management of Non-Indigenous  
Species and Invasive Alien Species -- Integrating sectoral ocean policies  
-- Marine Scientific Research -- An Emerging Environmental Issue:  
Marine Discharge of Mine Tailings -- Managing and Regulating  
Underwater Noise Pollution -- Marine Geo-Engineering -- Marine  
Spatial Planning.

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Sommario/riassunto

This handbook is the first of its kind to provide a clear, accessible, and comprehensive introduction to the most important scientific and management topics in marine environmental protection. Leading experts discuss the latest perspectives and best practices in the field with a particular focus on the functioning of marine ecosystems, natural processes, and anthropogenic pressures. The book familiarizes readers with the intricacies and challenges of managing coasts and oceans more sustainably, and guides them through the maze of concepts and strategies, laws and policies, and the various actors that define our ability to manage marine activities. Providing valuable thematic insights into marine management to inspire thoughtful application and further study, it is essential reading for marine environmental scientists, policy-makers, lawyers, practitioners and anyone interested in the field.

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