

1. Record Nr.	UNINA9910140492503321
Titolo	Vulnerability of coastal ecosystems and adaptation // edited by Andre Monaco, Patrick Prouzet
Pubbl/distr/stampa	London, England ; ; Hoboken, New Jersey : , : iSTE : , : Wiley, , 2014 ©2014
ISBN	1-119-00773-9 1-119-00775-5 1-119-00774-7
Descrizione fisica	1 online resource (338 p.)
Collana	Oceanography and Marine Biology Series. Seas and Ocean
Disciplina	577.51
Soggetti	Coastal ecology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Cover; Title Page; Copyright; Contents; Foreword; 1: Marine Ecosystems under Toxic Pressure; 1.1. Introduction; 1.2. Details of the marine environment; 1.2.1. The coastal zone; 1.2.2. The open ocean; 1.3. What is the biological response of organisms to contaminants?; 1.3.1. At cellular level; 1.3.1.1. General remarks on the modes of action; 1.3.1.2. The cellular response: the means of identifying exposure to contaminants before the event; 1.3.2. On an individual level; 1.3.2.1. How specific and individual variability influences contamination 1.3.2.2. How specific variability and individual influence the depuration rate 1.3.2.3. Some types of toxic effects; 1.3.3. On the level of the population; 1.4. Consequences of toxic pressure on ecosystems; 1.4.1. Interspecies relationships; 1.4.1.1. Predator-prey interactions (top-down); 1.4.1.2. Interaction between resources and consumers: "bottom-up"; 1.4.1.3. The alteration of behavior; 1.4.1.4. Interspecies competition within a same trophic behavior; 1.4.2. Contamination and impact on genetic diversity; 1.4.3. Host-parasite interactions; 1.4.4. Resilience and resistance 1.5. Indirect effects and multiple stress factors 1.5.1. Impact on the future of contaminants; 1.5.2. Effects of contaminants and climate change on different organization levels of life forms; 1.6. Conclusion;

1.7. Bibliography; 2: Vulnerability and Resilience of Estuaries to Contamination by Antibiotics and Antibiotic-Resistant Bacteria: a Challenge for the Next Decade; 2.1. Why does the ecosystem matter for human health in the emergence of antibiotic resistance; 2.2. Bacterial antibiotic resistance: a global ecological process
2.3. Fate of contamination by antibiotics and antibiotic-resistant bacteria in estuary environments: Seine Estuary case study 2.3.1. The Seine Estuary: one of the most anthropized estuaries in Europe; 2.3.2. The fate of contamination by antibiotics, from the sources of contamination to the estuary; 2.3.3. Occurrence of antibiotic-resistant Escherichia coli and Enterococcus in the Seine estuary; 2.4. Estuary sediments: a vulnerable environment?; 2.4.1. The resistome in estuary sediments; 2.4.2. Impact of contamination by antibiotics on the functional microbial community of sediments
2.5. Vulnerability and resilience in the estuary environment 2.6. Acknowledgments; 2.7. Bibliography; 3: Microbiological Coastal Risks and Monitoring Systems; 3.1. Introduction; 3.2. Risks and infectious diseases linked to coastal regions; 3.2.1. Pathogenic agents; 3.2.1.1. Virus; 3.2.1.2. Bacteria; 3.2.1.3. Parasites; 3.2.1.4. Toxic microorganisms; 3.2.1.5. Significance of infectious diseases linked to coastal environments for health; 3.2.2. Environmental change and modifications in the epidemiological environment; 3.2.2.1. Climate change; 3.2.2.2. Changes in biodiversity
3.2.2.3. Pollution and microalgae

Sommario/riassunto

The vulnerability of socio -ecosystem combines the probability of exposure to natural or anthropogenic pressure, sensitivity and resilience. This book presents a systemic view of the diversity of pressures and impacts produced by climate change and human actions. Erosion of biodiversity by changing ocean chemistry, the intensification of global change raises the problem of the adaptation of living resources.
