

1. Record Nr.	UNINA9910458644603321
Autore	McLachlan Anton
Titolo	The ecology of sandy shores [[electronic resource] /] / A. McLachlan, A. C. Brown
Pubbl/distr/stampa	Amsterdam ; ; London, : Elsevier, c2006
ISBN	1-280-63658-0 9786610636587 0-08-046509-9
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (387 p.)
Altri autori (Persone)	BrownA. C
Disciplina	574.52638 577.69/9 577.699
Soggetti	Seashore ecology Sand dune ecology Electronic books.
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 (p. [330]-351] and index.
Nota di contenuto	Front cover; Title page; Copyright page; Table of contents; Acknowledgements; 1: Introduction; 2: The Physical Environment; 2.1 Introduction; 2.2 Sand; 2.3 Waves; 2.4 Other Drivers of Water Movement; 2.5 Sand Transport; 2.6 Interactions Among Beach Slope, Waves, Tides, and Sand; 2.7 Beach Indices; 2.8 Beach Types; 2.9 Circulation Cells and Mixing; 2.10 Embayments and Headlands; 2.11 Swash Climate; 2.12 Slope; 2.13 Latitudinal Effects; 2.14 Conclusions; 3: The Interstitial Environment; 3.1 Introduction; 3.2 Characteristics of the System; 3.3 Processes of Water Input; 3.4 Water Filtration 3.5 Water Table Fluctuations3.6 Interstitial Chemistry; 3.7 The Interstitial Environment; 3.8 Conclusions; 4: Beach and Surf-zone Flora; 4.1 Introduction; 4.2 Benthic Microflora; 4.3 Surf-zone Phytoplankton; 4.4 Seagrasses; 4.5 Conclusions; 5: Sandy-beach Invertebrates; 5.1 Introduction; 5.2 Important Groups; 5.3 Conclusions; 6: Adaptations to Sandy-beach Life; 6.1 Introduction; 6.2 Locomotion; 6.3 Rhythms of Activity; 6.4 Sensory Responses and Orientation; 6.5 Choice of Habitat; 6.6 Nutrition; 6.7 Respiration; 6.8 Environmental Tolerances; 6.9

Reproduction

6.10 Aggregations and Gregariousness 6.11 Avoidance of Predators; 6.12 Phenotypic Plasticity; 6.13 Conclusions; 7: Benthic Macrofauna Communities; 7.1 Introduction; 7.2 Sampling; 7.3 Taxonomic Composition; 7.4 Macroscale Patterns; 7.5 Mesoscale Patterns; 7.6 Microscale Patterns; 7.7 Trophic Relations; 7.8 Conclusions; 8: Benthic Macrofauna Populations; 8.1 Introduction; 8.2 Macroscale Patterns; 8.3 Mesoscale Patterns; 8.4 Microscale Patterns; 8.5 Invertebrate Fisheries; 8.6 Conclusions; 9: Interstitial Ecology; 9.1 Introduction; 9.2 Interstitial Climate; 9.3 Sampling; 9.4 Interstitial Biota 9.5 Distribution of Interstitial Fauna 9.6 Temporal Changes; 9.7 Meiofaunal Communities; 9.8 Trophic Relationships; 9.9 Biological Interactions; 9.10 Meiofauna and Pollution; 9.11 Conclusions; 10: Surf-zone Fauna; 10.1 Introduction; 10.2 Zooplankton; 10.3 Fishes; 10.4 Other Groups; 10.5 Conclusions; 11: Turtles and Terrestrial Vertebrates; 11.1 Introduction; 11.2 Turtles; 11.3 Birds; 11.4 Conclusions; 12: Energetics and Nutrient Cycling; 12.1 Introduction; 12.2 Food Sources; 12.3 Macroscopic Food Chains; 12.4 Interstitial Food Chains; 12.5 The Microbial Loop in Surf Waters 12.6 Energy Flow in Beach and Surf-zone Ecosystems 12.7 Case Study: Sandy Beaches of the Eastern Cape; 12.8 Nutrient Cycling; 12.9 Conclusions; 13: Coastal Dune Ecosystems and Dune/Beach Interactions; 13.1 Introduction; 13.2 The Physical Environment; 13.3 Coastal Dune Formation by Vegetation; 13.4 Dune Types; 13.5 Edaphic Features; 13.6 Water; 13.7 The Gradient Across Coastal Dunefields; 13.8 Dune Vegetation; 13.9 The Fauna; 13.10 Food Chains; 13.11 Dune/Beach Exchanges; 13.12 A Case Study of Dune/Beach Exchanges; 13.13 Conclusions; 14: Human Impacts; 14.1 Introduction; 14.2 Pollution 14.3 Recreational Activities

Sommario/riassunto

The Ecology of Sandy Shores provides the students and researchers with a one-volume resource for understanding the conservation and management of the sandy shore ecosystem. Covering all beach types, and addressing issues from the behavioral and physiological adaptations of the biota to exploring the effects of pollution and the impact of man's activities, this book should become the standard reference for those interested in Sandy Shore study, management and preservation.* More than 25% expanded from the previous edition* Three entirely new chapters: Energetics and Nutrient
