

1. Record Nr.	UNINA9910457146603321
Titolo	Estuarine and coastal modeling [[electronic resource]] : proceedings of the eleventh international conference, November 4-6, 2009, Seattle, Washington // sponsored by Coasts, Oceans, Ports, and Rivers Institute of the American Society of Civil Engineers ; edited by Malcolm L. Spaulding
Pubbl/distr/stampa	Reston, Va., : American Society of Civil Engineers, 2010
ISBN	0-7844-7681-0
Descrizione fisica	1 online resource (793 p.)
Altri autori (Persone)	SpauldingMalcolm L
Disciplina	551.46/18015118
Soggetti	Floodplain management Watershed management Estuaries - Hydrodynamics Floodplains - Mathematical models 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 and indexes.
Nota di contenuto	""Cover""; ""Contents""; ""Specific Estuarine and Coastal System Models""; ""Hydrodynamic Analyses of Restoration Actions in the Flood Plain""; ""Comparison of NYHOPS Hydrodynamic Model SST Predictions with Satellite Observations in the Hudson River Tidal, Estuarine, and Coastal Plume Region""; ""Skill Assessment of the MARINA Hydrodynamic Code Using NOAA'S Delaware Bay Estuary Modeling Evaluation Environment (MEE)""; ""Investigation of the Effects of Proposed Hurricane Protection Structures on the Characteristic Transport of Larval Fish into Lake Pontchartrain"" ""ROMS High Resolution Hindcasts for Delaware River and Bay""""The Flushing of Louisiana's Coastal Bays under Hurricane Conditions""; ""An Examination of Seasonal Mean Circulation and Salinity Distributions in the Pearl River Estuary of China Using a Nested-Grid Coastal Ocean Circulation Model""; ""Model-Derived Hydrodynamics of Inlets in South Puget Sound""; ""A Numerical Study of Circulation and Associated Variability in the Intra-Americas Seas""; ""Cross-Channel Transport in

the Upper Delaware Estuary: Numerical Experiments for Contamination Vulnerability Assessment"

"A Three-Dimensional Unstructured Cartesian Grid Model for Crystal River/Kings Bay in Southwest Florida"; "Model Visualization, Web Services, and Decision Support"; "Pelagic Habitat Visualization: The Need for a Third (and Fourth) Dimension: Habitat Space"; "Advancing Educational Capacity: Using the SCOOP Educational Virtual Appliance"; "Model Data Interoperability for the United States Integrated Ocean Observing System (IOOS)"; "Modeling Techniques"; "Alternative Advection Schemes for the Baroclinic ADCIRC Model: Application to the Lock-Exchange Problem"

"Development and Application of the Coupled HYCOM and ADCIRC System"; "Port of Anchorage Expansion and Deepening Studies";

"Numerical Modeling Studies Supporting Port of Anchorage Deepening and Expansion: Part I; Physical Setting and Dredging Issues";

"Numerical Modeling Studies Supporting Port of Anchorage Deepening and Expansion: Part II; Measuring Physical Processes"; "Numerical Modeling Studies Supporting Port of Anchorage Deepening and Expansion: Part III; Numerical Hydrodynamic Modeling"

"Numerical Modeling Studies Supporting Port of Anchorage Deepening and Expansion: Part IV Numerical Sediment Transport Modeling";

"Modeling of Lagrangian Transport"; "Modeling Analysis of Physical Transport and Swimming Behaviors Determining Plankton

Distributions"; "Puget Sound Operational Forecast System A Real-Time Predictive Tool for Marine Resource Management and Emergency Responses"; "Pollutant Transport and Water Quality Prediction";

"Development and Evaluation of a Coupled Hydrodynamic (FVCOM) and Water Quality Model (CE-QUAL-ICM)"

"Assessment of Long-Term Water Quality Impacts of the Craney Island Eastward Expansion, Elizabeth River, Virginia"

2. Record Nr.	UNINA9910811880403321
Titolo	Aquatic functional biodiversity : an ecological and evolutionary perspective // edited by Andrea Belgrano, Guy Woodward, Ute Jacob
Pubbl/distr/stampa	Amsterdam, Netherlands : , : Academic Press, , 2015 ©2015
ISBN	0-12-417020-X
Descrizione fisica	1 online resource (313 p.)
Disciplina	578.76
Soggetti	Aquatic biodiversity Aquatic ecology Fishery management
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	Front Cover; Aquatic Functional Biodiversity; Copyright; Contents; Contributors; Perspective: FunctionalBiodiversity during theAnthropocene; TERMINOLOGY AND CONCEPTUAL ISSUES IN ECOLOGICAL AND EVOLUTIONARY PERSPECTIVES; CONCEPTUAL FRAMEWORKS IN ECOLOGICALAND EVOLUTIONARY SCIENCES; BIODIVERSITY AND ECOSYSTEM SERVICE CONSERVATION; REFERENCES; Section I - Theoretical Background; Chapter 1 - From Metabolic Constraints on Individuals to the Dynamics of Ecosystems; INTRODUCTION; INDIVIDUAL METABOLIC RATE, BIOMECHANICS, AND FITNESS; The Size-and-Temperature Dependence of Metabolic Rate From Metabolic Rate to FitnessEvolution of Metabolic Rates and Thermal Physiology; FROM INDIVIDUAL METABOLISM AND BIOMECHANICS TO INTERACTIONS; A Metabolic Theory for Species Interactions; Empirical Support; FROM INTERACTIONS TO CONSUMER-RESOURCE DYNAMICS; Ecological Consumer-Resource Dynamics; Eco-Evolutionary Consumer-Resource Dynamics; FROM CONSUMER-RESOURCE PAIRS TO COMMUNITY AND ECOSYSTEM DYNAMICS; CONCLUSIONS; ABBREVIATIONS AND MATHEMATICAL SYMBOLS; ACKNOWLEDGMENTS; REFERENCES; Chapter 2 - Ecological Effects of Intraspecific Consumer Biodiversity for Aquatic Communities and

Ecosystems

INTRODUCTIONCASE STUDIES; Migration and Foraging Trait Divergence in Alewife; Life History Divergence in the Trinidadian Guppy; Divergence Due to Predators and Toxic Prey in Daphnia; Foraging Habitat Divergence in Threespine Stickleback; Within-Population Variation in Feeding Behavior in Pale Chub; META-ANALYSIS; CONCLUSIONS; ACKNOWLEDGMENTS; REFERENCES; Chapter 3 - How Does Evolutionary History Alter the Relationship between Biodiversity and Ecosystem Function?; INTRODUCTION; METHODS; Resource Competition Models; Model 1: Partially Substitutable Resources; Case 2: Essential Resources Model AnalysisReanalysis of Empirical Data; RESULTS; DISCUSSION; ABBREVIATION; ACKNOWLEDGMENTS; REFERENCES; Chapter 4 - Effects of Metacommunity Networks on Local Community Structures: From Theoretical Predictions to Empirical Eval ...; INTRODUCTION; FOUR PARADIGMS; Patch Dynamics and Mass Effect; Patch Dynamics; Mass Effect; Species Sorting; Neutral Mechanisms; Theory Data; Metacommunity Networks; Community-Level Properties; Metacommunity-Level Properties; Weighted Metacommunity Networks; Methodologies for Estimating Metacommunity Networks; Maximum Entropy; ACKNOWLEDGMENTS; REFERENCES
Section II - Across Aquatic EcosystemsChapter 5 - Limited Functional Redundancy and Lack of Resilience in Coral Reefs to Human Stressors; INTRODUCTION; DATA QUALITY; PATTERN OF CHANGE; DRIVERS OF CHANGE; ARE CORAL REEFS FUNCTIONALLY REDUNDANT?; SOLUTIONS TO ENSURE RESILIENCE; Are there other Solutions Available?; CONCLUDING REMARKS; REFERENCES; Chapter 6 - Biodiversity, Ecosystem Functioning, and Services in Fresh Waters: Ecological and Evolutionary Implications of ...; INTRODUCTION; Climate Change: An Environmental Stressor That Is More Than Just the Sum of Its Parts? Temperature and Metabolism: The Master Variables in Biological Responses to Global Warming

Sommario/riassunto

Aquatic Functional Biodiversity: An Ecological and Evolutionary Perspective provides a general conceptual framework by some of the most prominent investigators in the field for how to link eco-evolutionary approaches with functional diversity to understand and conserve the provisioning of ecosystem services in aquatic systems. Rather than producing another methodological book, the editors and authors primarily concentrate on defining common grounds, connecting conceptual frameworks and providing examples by a more detailed discussion of a few empirical studies and projects, which illustrate k

3. Record Nr.	UNINA9910566470203321
Autore	Santoul Frédéric
Titolo	Effects of Species Introduction on Aquatic Communities
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (80 p.)
Soggetti	Research and information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Freshwater ecosystems are deeply affected by human pressure, such as species introduction, which remains a major concern for these ecosystems. The arrival of new species can have different ecological effects, and sometimes leads to biological invasions and adverse impacts. Introduced species establish new interactions (e.g., predation, competition) with the recipient community. These can modify the aquatic community's structure, composition, and functions. Understanding these interactions remains a key concern in conservation biology. This Special Issue of Water aims to explore these topics.