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	Autore	Herrenkhol, C.
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Flooding at the Coast; 2.7 Coastal Habitats Within the Flood System; 2.8 The Physical Context of Flooding at the Coast; 2.10 Capturing Future Changes; 2.11 Conclusions; References; References; References; 6.2 Efficiency, Equity, and Sustainability of Mitigation Options; Acknowledgments; 7.2 - Mitigating Flood and Erosion Risk using Sediment Management for a Tourist City: Varna, Bulgaria; 7.2.3 Mitigation Measures 7.2.4 Planning the Best Combination of Defense Strategies 7.2.5 Overall Conclusions and Recommendations; Acknowledgments; 7.3 - Coastal Wetlands in the Yangtze Estuary, China; 7.3.1 Description of the Site; 7.3.2 Existing Management; 7.3.3 Coastal Wetlands in the Yangtze Estuary; 7.4.6 Strategic Management (in the Short, Mid, and Long Term); 7.4.7 Policy Implications and Overall Conclusions and Recommendations; 7.5 - Flood Hazard Mitigation in a Heavily Modified Estuary, the Elbe Estuary, Germany; 7.5.1 Description of the Site; 7.5.2 Physical Characteristics 7.5.3 Historical Development of the Estuary 7.5.4 The Flood System within the Elbe Estuary; 7.5.5 Flood Mapping for HafenCity; 7.5.6 Mitigation Measures; 7.5.7 Strategic Management; 7.5.8 Overall Conclusions and Recommendations; Acknowledgments; 7.6 - Risk Assessment and Mitigation in a Low-lying Coastal Area: Cesenatico, Northern Italy; 7.6.1 Characterization of the Site; 7.6.2 Risk Modeling; 7.6.3 Identification of Mitigation Options; 7.6.4 Preliminary Design of Mitigation Options; 7.6.5 Selection of the Portfolio of Mitigation Measures; 7.6.6 Impacts of the Portfolio of Mitigation Options 7.6.7 Strategic Management and Policy Implications 7.7 - Balancing Flood and Erosion Risk with Landscape Sustainability: Cancun, Mexico; 7.7.1 Description of the Site; 7.7.2 Characterization of the Flood System; 7.7.3 Application of the SPRC Model; 7.7.4 Risk Mitigation Measures; 7.7.5 Strategic Management; Acknowledgments; 7.8 - Flood and Erosion Management on a Dynamic Spit: the Hel Peninsula, Poland; 7.8.1 Description of the Site; 7.8.2 The Current Flood System; 7.8.3 Application of the SPRC Model; 7.8.4 Meteorological Climate: Present Conditions and Long-Term Trends; 7.8.5 Flood Mapping 7.8.6 Erosion Scenarios 7.8.7 Mitigation Measures; 7.8.8 Overall Conclusions and Recommendations; 7.9 - Flooding and Erosion Risk Analysis in Santander Bay, Spain; 7.9.1 Description of the Site; 7.9.2 The Coastal System; 7.9.3 Flood and Erosion Risk Modeling; 7.9.4 Mitigation Measures; 7.9.5 Cost and Benefit Analysis for the Mitigation Measures; 7.9.6 Policy Implications; 7.9.7 Overall Conclusions and Recommendations; 7.10 - Teign Estuary, South Devon, UK: Stakeholder-Led Mitigation; 7.10.1 Description of the Site; 7.10.2 Settlements; 7.10.3 Habitats and Ecology 7.10.4 Existing Flood Governance and Management

## Sommario/riassunto

Existing coastal management and defense approaches are not well suited to meet the challenges of climate change and related uncertainties. Professionals in this field need a more dynamic, systematic and multidisciplinary approach. Written by an international group of experts, Coastal Risk Management in a Changing Climate provides innovative, multidisciplinary best practices for mitigating the effects of climate change on coastal structures. Based on the Theseus program, the book includes eight study sites across Europe, with specific attention to the most vulnerable coastal environments such