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Nota di contenuto	Intro -- Ocean Circulation and El Niño: New Research -- Contents -- Preface -- Seasonal Cycle Variations on the Supercontinent of Pangaea: Implications for the Early Jurassic Paleooceanography of the European Epicontinental Sea -- Abstract -- Introduction -- Theoretical Atmospheric and Ocean Circulation Pattern -- Mesozoic Ocean Circulation in the European Epicontinental Sea -- Early Jurassic Ostracoda, Paleocirculation and Water Masses -- The Role of the Opening of the Hispanic Corridor -- Modelling the Water Masses in the Early Jurassic -- Comparison of Early Jurassic Paleodata and Climate Models Results -- Conclusion -- Acknowledgments -- References -- Modal Decomposition for Oceanic Circulation: Applications for a High-Resolution Model and Lagrangian Data -- Abstract -- 1. Introduction -- 2. Fourier Modes for Non-Rectangular Domains -- 3. Spectral Analysis of High-Resolution Model Results -- 4. Reconstruction of Currents from Lagrangian Data -- Conclusion -- Acknowledgments -- Appendix A. Iteration Solution for the Heat Transport Equation -- References -- Ocean Circulation from Altimetry: Progresses and Challenges -- Abstract -- 1. Introduction -- 2. Multi-Mission Mapping -- 3. Mesoscale Eddies -- 4. Ocean Tides -- 5. Ocean Climate

Variability -- 6. Planetary Waves -- 7. Sea Level Change and Variability -- 8. Meandering Jet -- 9. Challenges and Perspectives -- References -- Ocean Circulation: An Overview and Current Trends in Research -- Abstract -- Introduction -- Main Forces Driving Large-Scale Currents -- Thermohaline Circulation -- Meridional Overturning Streamfunction as a Measure of Global Total Water Transport -- Cross-Equatorial Oceanic Heat Transport as a Measure of Global Total Water Transport -- Bi-Polar Ocean Seesaw -- Numerical Models -- Conclusions -- Acknowledgments -- References.

Temporal Variability of the Florida Current Transport at 27oN -- Abstract -- Introduction -- Data Outline -- Model and Simulation Outline -- Results -- Conclusion -- Acknowledgments -- References -- Global Climate Change and Biotic-Abiotic Interactions in the Northern Chilean Semiarid Zone: Potential Long-Term Consequences of Increase El Niños -- Abstract -- Introduction -- Study Site, Methodology, and Analyses -- Organismal Responses to Experimental Treatments -- Organismal Responses to El Niño/High Rainfall Events -- The Long-Term Consequences of More Frequent El Niños for Semiarid Communities -- Acknowledgments -- References -- Managing Climate Variability in Agricultural Analysis -- Abstract -- Introduction -- ENSO Impacts on Agriculture -- Framework for ENSO-Based Crop Yield Forecasting -- Agricultural Climate Risk Decision Making -- Introducing Seasonal Climate Information in Farm Optimization Analyses -- Policy, Decision Making and Usefulness of Climate Information -- Conclusion -- References -- ENSO Impacts on European Winter Rainfalls and Their Modulation by Leading Euro-Atlantic Teleconnections -- Abstract -- 1. Introduction -- 2. Dataset Description -- 3. Methods and Data Preprocessing -- 4. Results and Discussion -- Conclusions -- Acknowledgments -- References -- Effects of El Niño Southern Oscillation (ENSO) on Marine Fish and Shellfish Populations and Their Habitats in North America -- Introduction -- Physical Properties -- ENSO Effects on Primary Productivity and Development of Hypoxia -- ENSO Effects on Zooplankton -- ENSO Effects on Finfish, Shellfish and Marine Birds and Mammals -- ENSO Effects on Fish and Shellfish Diseases and Contaminant Accumulation -- ENSO Effects on Human Health and the Harvesting of Marine Resources -- Ecological Modeling and Prediction of ENSO and its Effects on Coastal Ecosystems -- Conclusions -- Summary. References -- Coral Color - Reflection and Absorption -- Abstract -- Introduction -- White and Black Body -- Spectral Reflection -- Acknowledgments -- References -- Interannual and Intraseasonal Variability in the Boreal Summer Asian Monsoon before and after Climate Regime Shift of Mid 1970s as Revealed in the NCEP/NCAR Reanalysis -- Abstract -- 1. Introduction -- 2. Data and Methods -- 3. Leading Modes in Variability of the Mean Zonal Wind and the ISO Intensity -- 4. Links to SST Variations and Convection -- Conclusion -- Acknowledgments -- References -- El-Niño and Coral Reefs -- Abstract -- Introduction -- EL-Niño -- Corals and Coral Bleaching -- Coral Bleaching and El-Niño -- Easterly Waves, Hurricanes and El-Niño -- Conclusion -- References -- Index.
