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Nota di bibliografia	Includes bibliographical references and index.
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 27°N --
 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.

Sommario/riassunto

Progress toward better understanding of ocean variability is closely
 linked to the development of signal processing tools for multi-scale
 analysis of ocean flows. This book includes a review of progress in
 physical oceanography, such as results on studying ocean circulation
 and mesoscale ocean dynamics derived from satellite altimetry.
