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Observe Rossby Waves; 5. Results; 6. Rossby Waves in Models; 7. Future Research; Chapter 7. A study of meddies using simultaneous in-situ and satellite observations; 1. Introduction; 2. Data Description and Processing Methods; 3. Results; 4. Discussion; 5. Conclusions; Chapter 8. Why care about El Nino and La Nina?; 1. El Nino, La Nina, and the Media; 2. What are El Nino and La Nina?; 3. El Nino and La Nina Impacts; 4. El Nino/La Nina Lessons; Chapter 9. Satellites, society, and the Peruvian fisheries during the 1997-1998 El Nino  
1. Introduction; 2. Data and Methods; 3. Results; 4. Summary and Discussion.; Chapter 10. Satellites and fisheries. The Namibian hake, a case study; 1. Introduction; 2. Remote Sensing and Fisheries; 3. SST Predictor of Availability of Namibian Hake; 4. Discussion; Chapter 11. Ocean-color satellites and the phytoplankton-dust connection; 1. Phytoplankton Regulation; 2. Measuring Aerosols; 3. Ocean-Color Sensors; 4. Summary and Outlook; Chapter 12. An overview of temporal and spatial patterns in satellite-derived chlorophyll - a imagery and their relation to ocean processes; 1. Introduction  
2. Frequency Distributions of In-Situ Chlorophyll-a and CSAT; 3. CSAT Variability; 4. Conclusions; Chapter 13. Remote-sensing studies of the exceptional summer of 1997 in the Baltic Sea: The warmest August of the century, the Oder flood, and phytoplankton blooms; 1. Introduction; 2. Satellite Data and Methods; 3. Results; 4. Summary and Conclusions; Chapter 14. Remote-sensing studies of seasonal variations of surface chlorophyll- a concentration in the Black Sea; 1. Introduction; 2. Black Sea Circulation; 3. Data and Methods; 4. Results; Chapter 15. Remotely sensed coastal/deep-basin water exchange processes in the Black Sea surface layer

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#### Sommario/riassunto

The book shows how the new observations from satellites required advances in theory and influenced societal decision-making. Chapters have a review with an extensive reference list, making the book an excellent source of information for biological and physical oceanographers and atmospheric scientists. A large range of state-of-the art applications of satellite data (altimeter, color, infrared radiometer, scatterometer, synthetic aperture radar) visible in regional-to-global scale ocean studies integrating satellite and in-situ measurements with circulation models are covered in the book.

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