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The Ocean Carbon Cycle and Climate

By Mick Follows

Springer Aug 2004, 2004. Buch. Book Condition: Neu. 235x155x27 mm. This item is printed on demand - Print on Demand Neuware - Our desire to understand the global carbon cycle and its link to the climate system represents a huge challenge. These overarching questions have driven a great deal of scientific endeavour in recent years: What are the basic oceanic mechanisms which control the oceanic carbon reservoirs and the partitioning of carbon between ocean and atmosphere How do these mechanisms depend on the state of the climate system and how does the carbon cycle feed back on climate What is the current rate at which fossil fuel carbon dioxide is absorbed by the oceans and how might this change in the future To begin to answer these questions we must first understand the distribution of carbon in the ocean, its partitioning between different ocean reservoirs (the 'solubility' and 'biological' pumps of carbon), the mechanisms controlling these reservoirs, and the relationship of the significant physical and biological processes to the physical environment. The recent surveys from the JGOFS and WOCE (Joint Global Ocean Flux Study and World Ocean Circulation Experiment) programs have given us a first truly global survey of...


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