



The Ocean Carbon Cycle and Climate

Edited by

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The Ocean Carbon Cycle and Climate: Proceedings of the NATO Asi on Ocean Carbon Cylce and Climate, Ankara, Turkey, from 5 to 16 August 2002. (Paperback)

By -

Springer-Verlag New York Inc., United States, 2004. Paperback.

Book Condition: New. 2004 ed.. 239 x 160 mm. Language: English . Brand New Book ***** Print on Demand *****. 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...



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