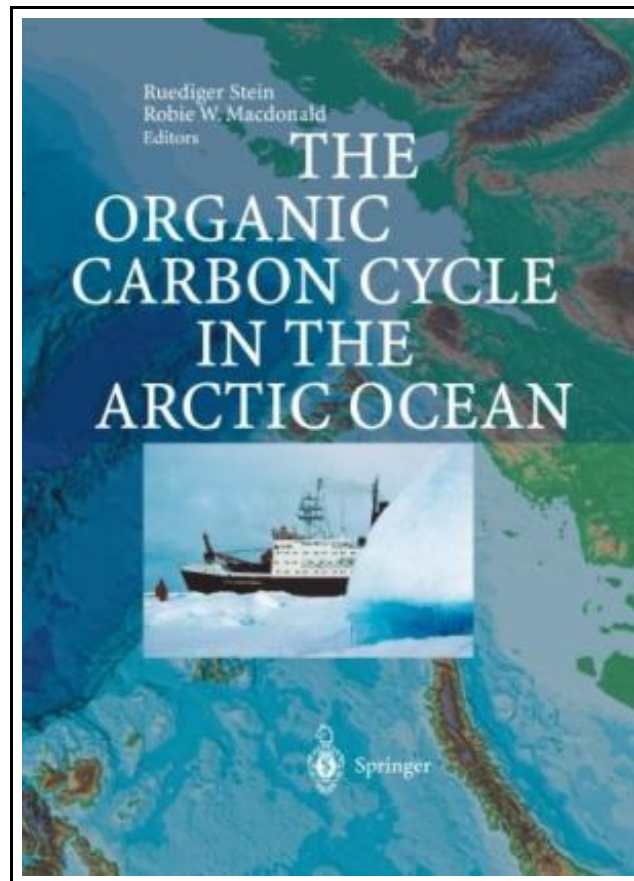


The Organic Carbon Cycle in the Arctic Ocean



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Reviews

It is one of the best publications. It really is loaded with knowledge and wisdom. You may like the way the blogger wrote this ebook.

(Prof. Shannon Wehner PhD)

THE ORGANIC CARBON CYCLE IN THE ARCTIC OCEAN



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Springer Okt 2013, 2013. Taschenbuch. Book Condition: Neu. 270x193x20 mm. Neuware - The flux, preservation, and accumulation of organic carbon in marine systems are controlled by various mechanisms including primary production of the surface water, supply of terrigenous organic matter from the surrounding continents, biogeochemical processes in the water column and at the seafloor, and sedimentation rate. For the world's oceans, phytoplankton productivity is by far the largest organic carbon source, estimated to be about 30 to 50 Gt (10 tonnes) per year (Berger et al. 1989; Hedges and Keil 1995). By comparison, rivers contribute about 0.15 to 0.23 Gt y of particulate organic carbon (Ittekkot 1988; 1 Hedges et al. 1997). On average, only about 0.1 to 0.2 Gt y of the organic carbon supplied to the world's oceans has been buried in Holocene sediments, with perhaps 85-90% of that being deposited in deltaic, shelf and upper slope sediments (Romankevich 1984; Berner 1989; Hedges and Keil 1995). To refine the global ocean carbon budget in general and, specifically, to quantify organic carbon burial because it is so important for climatic change, we need detailed measurements of the organic carbon flux in all ocean environments, especially for continental margins (e.g., Liu et al., 2000). With the notable exception of the Arctic Ocean, data have been available for some time on organic carbon sources, pathways and burial in a variety of ocean environments. 384 pp. Englisch.



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