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## Modeling Biogeochemical-Physical Interactions and Carbon Flux in the Sargasso Sea

By Sergio R. Signorini

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 46 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. An ecosystem-carbon cycle model is used to analyze the biogeochemical-physical interactions and carbon fluxes in the Bermuda Atlantic Time-series Study (BATS) site for the period of 1992-1998. The model results compare well with observations (most variables are within 8 of observed values). The sea-air flux ranges from -0.32 to -0.50 mol Csq myr, depending upon the gas transfer algorithm used. This estimate is within the range (-0.22 to -0.83 mol Csq myr) of previously reported values which indicates that the BATS region is a weak sink of atmospheric CO<sub>2</sub>. The overall carbon balance consists of atmospheric CO<sub>2</sub> uptake of 0.3 Mol Csq myr, upward dissolved inorganic carbon (DIC) bottom flux of 1.1 Mol Csq myr, and carbon export of 1.4 mol Csq myr via sedimentation. Upper ocean DIC levels increased between 1992 and 1996 at a rate of approximately 1.2 (micro)molkgyr, consistent with observations. However, this trend was reversed during 1997-1998 to -2.7 (micro)molkgyr in response to hydrographic changes imposed by the El Nino-La Nina transition, which were manifested in the Sargasso...



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