



This is the second volume of manuscripts comprising results from the process studies in the Southern Ocean conducted by the US Joint Global Ocean Flux Study (US JGOFS). The overall objectives of the study were to better constrain the fluxes of carbon in the Southern Ocean, to identify the factors and processes that regulate the magnitude and variability of primary productivity (as well as the fate of biogenic material), and to gain a sufficient understanding to model past and present carbon fluxes with sufficient accuracy to predict their response to future global changes. Field work was conducted both on the continental shelf of the Ross Sea, and within the Antarctic Circumpolar Current (ACC) near 170°W. Results from both regions described in this volume significantly address the goals and objectives of the entire program.

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