



Figure 10.13. The gas exchange mass transfer coefficient in different seawater samples from the continental margin regions of North America as a function of the dissolved organic carbon (DOC) concentration of the water. Exchange rates were determined in laboratory experiments in which gas exchange conditions were identical for different water samples from the locations indicated. The gas exchange rates of oxygen measured are inversely proportional to the DOC concentration of the water, implying that the organic content affects the interface properties that control gas transfer. Redrawn from Frew (1997).