

Figure 12.4. (A) A schematic representation of the fluxes of organic matter and oxygen at the sediment–water interface of the deep sea (from Emerson et al., 1985). R_c is the rain rate of particulate organic carbon and F_c and F_{O_2} are the fluxes of organic carbon and oxygen at the sediment–water interface. (B) Data for sediment profiles indicating the carbon- and oxygen-limiting cases. The carbon-limiting case is redrawn from Grundmanis and Murray (1982), and the oxygen-limited data are from Murray and Kuivila (1990). The carbon-limiting case is redrawn from Grundmanis and Murray (1982), and the oxygen-limited data are from Murray and Kuivila (1990).

