



Figure 6.14. DIC and carbon isotope ratio of DIC, $\delta^{13}\text{C}$ -DIC, in the North Pacific Ocean. The depth and time series data are from the Hawaii Ocean Time series (HOT) between 1994 and 1999. (A) Depth profile of DIC (squares), total alkalinity, A_T (triangles) and $\delta^{13}\text{C}$ -DIC, $\delta^{13}\text{C}$ (circles). (B) Zonally averaged mean values of the surface water $\delta^{13}\text{C}$ -DIC in the Pacific Ocean (squares) and the $\delta^{13}\text{C}$ -DIC expected if the surface ocean DIC were in chemical equilibrium with the atmosphere (circles). (C) Monthly values of DIC in the mixed layer at HOT. (D) Monthly values of $\delta^{13}\text{C}$ -DIC in the mixed layer at HOT. Redrawn from Quay and Stutzman (2003).