



Figure 5.5. The oxygen isotope record recorded in Foraminifera tests in deep sea sediments. The isotope variations are caused by temperature changes and the waxing and waning of glacial ice during the past million years. The $\delta^{18}\text{O}$ scales are different because the figure on the left is for planktonic Foraminifera and the other is for benthic Foraminifera; the present planktonic–benthic difference is c.5%. The core on the left is a record of planktonic Foraminifera from V28–238 from the Equatorial Pacific (Shackleton and Updyke, 1973). The core on the right is also from the Equatorial Pacific but the isotope data are from benthic Foraminifera tests in core V19–30 (Chappell and Shackleton, 1986). Redrawn from Crowley (1983), and Broecker (2002). See Chapter 7 for more details of this record.