



**Figure 7.1.** The oxygen isotope record recorded in foraminiferan tests in deep sea sediments. The changes are caused by temperature changes and the waxing and waning of glacial ice during the past c. 1 million years. The core on the left is a record of planktonic foraminifera V28-238 from the Equatorial Pacific (Shackleton and Opdyke, 1973). The core on the right is also from the Equatorial Pacific but the isotope data are on benthic foraminiferan tests from V19-30 (Chappell and Shackleton, 1986). The  $\delta^{18}\text{O}$  scales are different because the planktonic-benthic difference is c. 5‰. Redrawn from Crowley (1983) and Broecker (2002).