

Figure 7.16. Climate indicators

in the Vostok Antarctic ice core (78° S, 106° E, elevation 3488 m).

(A) The δD of the ice as a function of depth in the 3300 m core. The characteristic c.100 ky cycles become closer together with depth owing to ice compaction and flow.

(B) Ice core records plotted against age. The temperature of the atmosphere was calculated from the δD data. CO_2 , CH_4 and $\delta^{18}O-O_2$ are from air trapped in the ice as a function of age. The age scale is based on an ice accumulation model and control points in the δD record that are assumed to correspond to isotope stages 5.4 and 11.3.4.

Redrawn from Petit *et al.* (1999).

