



Figure 4.14 A $2 \times \text{CO}_2$ equilibrium climate change scenario for the Swiss annual mean temperature field constructed by combining semiempirical downscaling with a spatial interpolation procedure. Changes are given relative to the 1931-80 baseline. The scenario was based on monthly temperature anomalies (see also figure 4.13) downscaled at forty long-term climatological stations (shown as x_s) from a $2 \times \text{CO}_2$ simulation with the ECHAM1-T21/LSG GCM (Cubasch et al. 1992). For spatial interpolation sixty-eight additional stations with at least twenty years of data available were used (not shown). The main ridge of the Alps crosses Switzerland from west-southwest to east-northeast between 46 and 47°N (cf. figure 4.8c). From Gyalistras and Fischlin 1995.