



**Figure 4.17** Comparison of estimates for the  $2 \times \text{CO}_2$  sensitivity of the annually and regionally averaged temperature and precipitation over the alpine region, as derived from different climate change scenarios. The numbers refer to the scenarios from table 4.7–(2): instrumental analogue scenario; (4)–(6): scenarios derived by semiempirical downscaling; (8): scenario from a high-resolution GCM; (7), (9)–(10): scenarios from RegCM simulations. The estimates (4)–(10) were obtained from global climate change simulations with three different driving GCMs. Several estimates were obtained from a limited number of months and sub-regions of the Alps (see table 4.7 and explanations in the text).