



Figure 4.16 A Business as Usual climate change scenario for the Alpine region for 2075-84 derived from simulations with the REWIH3D-RegCM. Shown are changes derived from day-long simulations for a series of large-scale weather classes under present and hypothetical future conditions. Boundary conditions for each weather class were obtained from simulations with the ECHAM3-T42 GCM, which for the definition of the present climate was driven with 1979-88 observed sea surface temperatures. For construction of the scenario, the sea surface temperatures were adjusted according to the changes simulated in a transient climate change simulation with the ECHAM1-T21/LSG GCM (Cubasch et al. 1992). From Frey-Buness 1993.