



Figure 4.7 Comparison between observed (solid lines) and reconstructed, statistically down-scaled (dashed lines) seasonal mean temperatures at the inner-alpine site of Sion. The local temperatures were predicted from observed seasonal mean sea level pressure and near-surface temperature anomalies over the European and North Atlantic sector based on a linear regression model. (A Canonical Correlation Analysis was performed using global and local measurements for 1901-47; c.f. figure 4.6). The explained variances ($100 \cdot r^2$) in the verification interval 1948-77 are 60 percent for winter, 55 percent for spring, 54 percent for summer, and 40 percent for autumn.