



Figure 2. Illustration of ensemble-based resampling methodology. **(a)** Empirical cumulative density function of JJA mean temperatures over Central Europe in ERA-Interim. The nonparametric fit to the cumulative density using a Gaussian kernel for observations and the model ensemble are shown by the blue and red lines, respectively. **(b)** A transfer function between the observed and modelled distribution is derived using Cubic Hermite splines. **(c)** Quantile–quantile plot for the original and resampled ensemble for the JJA temperature constraint. **(d)** Fraction of original ensemble members in percentile bins of the observed distribution (blue line in **(a)**), i.e. “effective ensemble size” after resampling.