



Analyses of each month's contribution to the annual temperature variability at ZagrebGric (Croatia)

D. Rasol

rasol@cirus.dhz.hr

Climate variability is mostly regarded as the annual mean temperature change. Analyses of each month's contribution to the annual temperature variability can provide us with a more detailed view of the changes with a climate. Correlation between the annual mean and the monthly mean temperatures was analyzed for each month separately at the ZagrebGric station, situated in the continental part of Croatia. The results obtained from measured data in the 1960-1990 period were compared with those from the output of the REMO model (Jacob, 2001). The model scenario for the period 2070-2100 was also analyzed. In general, the correlations are similar for the measured and model control data. The most significant difference is a much higher correlation in May and June in modeled than in measured data correlation. The model scenario for climate in the future has significantly fewer correlation fluctuations, with the highest values in summer decreasing steadily towards the autumn and winter months.