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How does the areal averaging influence the extremes? Context of gridded observation data sets

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Daily precipitation totals from over 400 measurement points and daily temperature from over 150 measurement points covering the period 1971-1990 were considered. On this basis gridded data set were obtained taking values from circles around grid points with different radia and the appropriate empirical distributions were compared. Two different approaches were used. In the first one all values in the circle were averaged for the given day. In the second one distributions were built on all values from all stations in the circle. The differences between distributions obtained separately for particular seasons were than analysed and compared. Among analysed factor were: radius, number of stations within the circle, season, method of distribution building (all values in the circle or their averages).