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Statistical analysis of low flow records in Po River basin (Northern Italy)

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In the Po basin ($70000~\rm km^2$), during the last years many rivers have experienced their minimum daily flows over periods ranging from 20 to 70 gaging years. The statistical analysis of about 50 minimum annual flow records is presented, in order to understand the extent of the phenomenon and to trace possible correlations with rainfall time series and with the size and behaviour of local groundwater systems. Multivariate analysis is also performed to assess similarities between patterns of daily low flows in periods of drought.