

Frequency distribution of precipitation acidity in Zagreb**Inga Lisac**Geophysical Institute, Faculty of Science, University of Zagreb, Yugoslavia*

The paper presents empirical frequency distributions of precipitation acidity for two stations, derived from a 17-year series. One of the stations is situated in the city centre and the other is on one of the tops of Medvednica, about 1000 m high mountain close to Zagreb. The distribution of measuring sites allows a view into the urban influence on the kind of atmospheric pollution indicator. The frequency distributions are derived for acidity expressed in pH units, in classes 0.5 pH units wide, based on daily precipitation samples. The influence of the sample age on the distribution shape has been examined. Dependence on the measuring site position and on the seasons has been found. Changes from one year to the next can also be followed, consisting partly in the increase of contribution of the samples with $\text{pH} \leq 5.5$, starting from 1969 to the present time. The specific qualities in the distribution shape have been examined depending on precipitation amount. The dependence of extreme values on seasons has been discussed.

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