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Statistical features of ozone laminae in the central Europe from the ozonsonde measurements.

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This paper is devoted to the statistical features of ozone laminae at the ozonsonde stations in the central Europe with the long time series of ozone profile observations. We divided laminae according their size and in each size we are interested in these characteristics: the ratio of the number of laminae of certain size and the total number of laminae, the ratio of the number of laminae with the maximum in the certain range of heights and the total number of laminae, the ratio of the number of laminae in the certain range of depths and the total number of laminae. In each of these characteristics we compute the yearly course. Most of these characteristics behavior may be explained by the evolution of polar vortex. Also the influence of the change in type of sondes in the 1990s to these characteristics is searched in this paper.