

STRUCTURE OF ATMOSPHERIC AEROSOL IN THE UPPER SILESIAN
AGGLOMERATION (POLAND) – CONTRIBUTION OF PM_{2.5} TO PM₁₀ IN ZABRZE,
KATOWICE AND CZĘSTOCHOWA IN 2005–2007

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Abstract: The PM_{2.5}/PM₁₀ ratio expresses the anthropogenic share in atmospheric dust. Very high values of this ratio, i.e. high contribution of PM_{2.5} to PM₁₀, have occurred recently in atmospheric air within European industrialized areas. The paper compiles results of three year pair wise measuring of concentrations of PM_{2.5} and PM_{2.5–10} and compares shares of PM_{2.5} in PM₁₀ at three urban background sites in Upper Silesia Poland (towns of Zabrze, Katowice and Częstochowa). At all the three locations, the PM_{2.5}/PM₁₀ ratio of daily concentrations of dust only occasionally differed considerably from the PM_{2.5}/PM₁₀ ratios for the seasonal and yearly concentrations that, in turn, did not differ from the PM_{2.5}/PM₁₀ ratios at urban sites in Europe.