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Mesoscale variability of surface ozone dynamics in the south of Tomsk region

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V.E. Zuev Institute of Atmospheric Optics has started continuous monitoring of the air composition, including surface ozone concentration, on September 1989 in the framework of TOR Project (Tropospheric Ozone Research) of the EUROTRAC Programme. At present, continuous measurements are carried out at four sites, which are located 5, 50, and 60 km from one another. Establishment of ozone monitoring at 4 sites located in Tomsk region enables a comparison of mesoscale dynamics of ozone concentration to be done. In this paper, based on 5-years measurements in the atmospheric surface layer of the Tomsk region the features of the annual and diurnal variation of ozone concentrations at 4 sites with different levels of anthropogenic load (urban, suburban and background). The main differences in surface ozone concentrations in urban and rural areas, as well as in their seasonal and daily cycles are found.

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