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The results of modeling variations in atmospheric pollutants over Primorsky Krai in 2019 and 2020 based on GMAO/NASA satellite monitoring data are analyzed. It is shown that average annual concentrations of pollutants in 2020 decreased as compared to 2019: by 20–35% for sulfur dioxide; by 5–20% for sulfates; by 8–20% for carbon monoxide; by 25–40 % for particulate matter PM (1, 2.5, and 10 μm). One of the reasons for the air pollution decline in Primorsky Krai in 2020 is the reduction of anthropogenic load in the context of a decrease in industrial activity and traffic flows both in Primorye and in the adjacent areas of China. Episodes of high pollution in 2019 were formed under influence of the transboundary transport of polluted air masses.

Keywords: air pollution, aerosol and chemical elements, transboundary transport, satellite monitoring, Primorsky Krai

Fig. 8. Ref. 15.