

Black Sea

Black Sec

Russia

RCP 8.5

The research used the climate change projections for Europe based on an ensemble of regional climate model simulations provided by the EURO-CORDEX; ensemble average annual mean temperature and precipitation for the RCP4.5 and RCP8.5 scenarios.

According to the RCP4.5 scenario, in the South of Ukraine in the period 2021-2050, a significant decrease in the maximum runoff of spring floods is predicted. For example, a 75-80% decrease is predicted for the rivers of the Black Sea, the Southern Bug basin, and the Azov River; in the central part of the studied territory and the northeast - a decrease of spring flood by 65-70%. The simulation results under the RCP8.5 scenario are somewhat different. The greatest decrease in maximum runoff is expected in the upper part of the Southern Bug and Azov river basins - up to 80%, in the rest of the territory by 2050, a decrease in spring flood by 65-70% is predicted.