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Changes of temperature-moisture regime of watershed of Ladoga lake in XX-XXI centures according to regional climate model RCAO (Rossby Centre, SMHI)

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The air surface temperature and water balance components of the Lake Ladoga watershed basin for the two periods in the end of XX and XXI centuries have been calculated and analyzed on the base of RCAO model data with using a new IPCC scenario A2. Comparison of simulated and empirical data gave a chance to estimate the ability of RCAO model in reproducing temperature and the components of hydrological cycle of Lake Ladoga basin. Possible changes of temperature, precipitation and evaporation for Lake Ladoga watershed by the end of the XXI century have been estimated using RCAO model data and recommendations for use of these estimates also have been given.