



System of weather comfort forecasting for European Russia

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This study provides information about the system of the weather comfort forecasting through biometeorological indexes, which is being held in the Russian Hydrometeorological centre of the operational test. It is shown that the evaluation of comfort in different areas should take into account geographic location and specific features of the climate. It is explains the differences in the selection of indicators for the weather of the northern and southern regions of European Russia. This work considers also a short summary information of the historical development of the most commonly bioclimatic indexes used in domestic and foreign practice. Given some estimates of the quality of bioclimatic indexes as indicators of weather comfort.

Particular attention is devoted to influence the meteorological parameters such as air temperature, humidity and wind speed on human health. We show the results of modeling some bioclimatic indexes with application the different versions of the mesoscale model WRF (Weather Research and Forecast) for some areas such as Moscow (spatial resolution 2x2 km), the Caucasus region (spatial resolution 9x9 km), Murmansk region (5x5 km) and the whole European territory of Russia (20x20km) for the for the abnormally hot conditions of summer 2010 and for cold days in winter 2010 and 2011.

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