ANALYSIS OF DATA ON DEMOGRAPHIC STRUCTURE, MORTALITY AND MORBIDITY OF POPULATION IN RUSSIAN FEDERATION

Yu. S. Lyubovtseva, O. O. Pyatygina, A. A. Shibaeva.

Geophysical Center of Russian Academy of Science

u.lyubovtseva@inbox.ru

In recent years around the world and in Russia deserved attention is given to influence of changes of environment on health and life expectancy of people. Correlation between medical, ecological, social-economic and climatological parameters is extremely complicated, in particular for such enormous territory as Russia, where regional distributions of sources of risks (natural and anthropogenic) significantly differ. It is important to allocate areas with the developed industries, with industrial hazardous and radioactive sources of pollution of the atmosphere, areas with volcanic activity, extensive fire-hazardous forest territories and background areas. Hence a need of studying, classification and division into districts of both the sources of risk and geophysical conditions of their influence follows. The MGIS created by us allows for mapping and thus the visualization and prediction of the demographic, the health state, the climate, and the morbidity of the population.

Using the ArcGIS 10.1 software package more than 500 maps on federal and regional level were constructed divided in four blocks: demography, social economy, ecology, health. The medical-geographic description of the territory of the RF was based on official statistical data on demographic statistical data on demographic indicators, morbidity rate of the population, social-economic characteristics and environmental pollution, health system indicators for 2005-2011. The specified materials were received from statistical surveys and Federal State Statistics Service bulletins for 2005-2011. This research was funded by the Ministry of Education and Science of RF under Grant No. 14.515.11.0012.