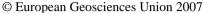
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GIS prototype for atmospheric balance of greenhouse gases content over the Russian territory

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On the base of comparative analysis of different GIS methods of climate data presentation and especial greenhouse gazes concentration, sources and sinks the ArcGIS 9.1 was selected as best tool for creation a GIS prototype for atmospheric balance of greenhouse gases content over the Russian territory.

The Russian atmospheric balance of greenhouse gases GIS prototype consists of atmospheric composition database, visualization tools and climate modeling results analysis.

Preliminary results of GIS analysis of numerical modeling of climate change, biomass primary net production and greenhouse gazes concentration within the Moscow city area and along the Transsibirean railroad measured during the first years of XXI century are presented.

All information is presented within the frame of digital climate atlas of Russia, created using advance GIS technologies.

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