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SUAI State University of Aerospace Instrumentation

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«Metrological Support of Innovative Technologies» ICMSIT-2020

«Visualization of the monitoring data of the emissions into the atmosphere from stationary pollution sources on the territory of the Republic of Crimea in 2013-2018 provided by using geographic information systems (GIS)»

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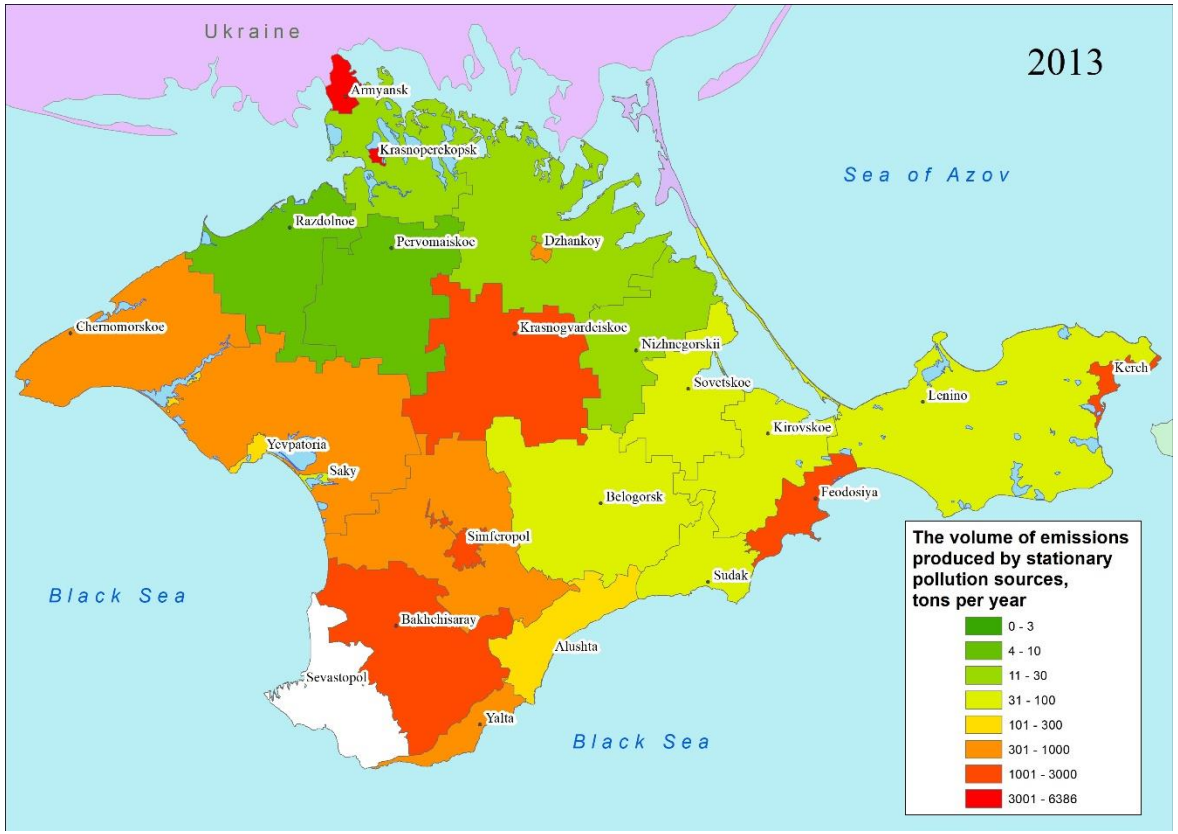
Solution methods

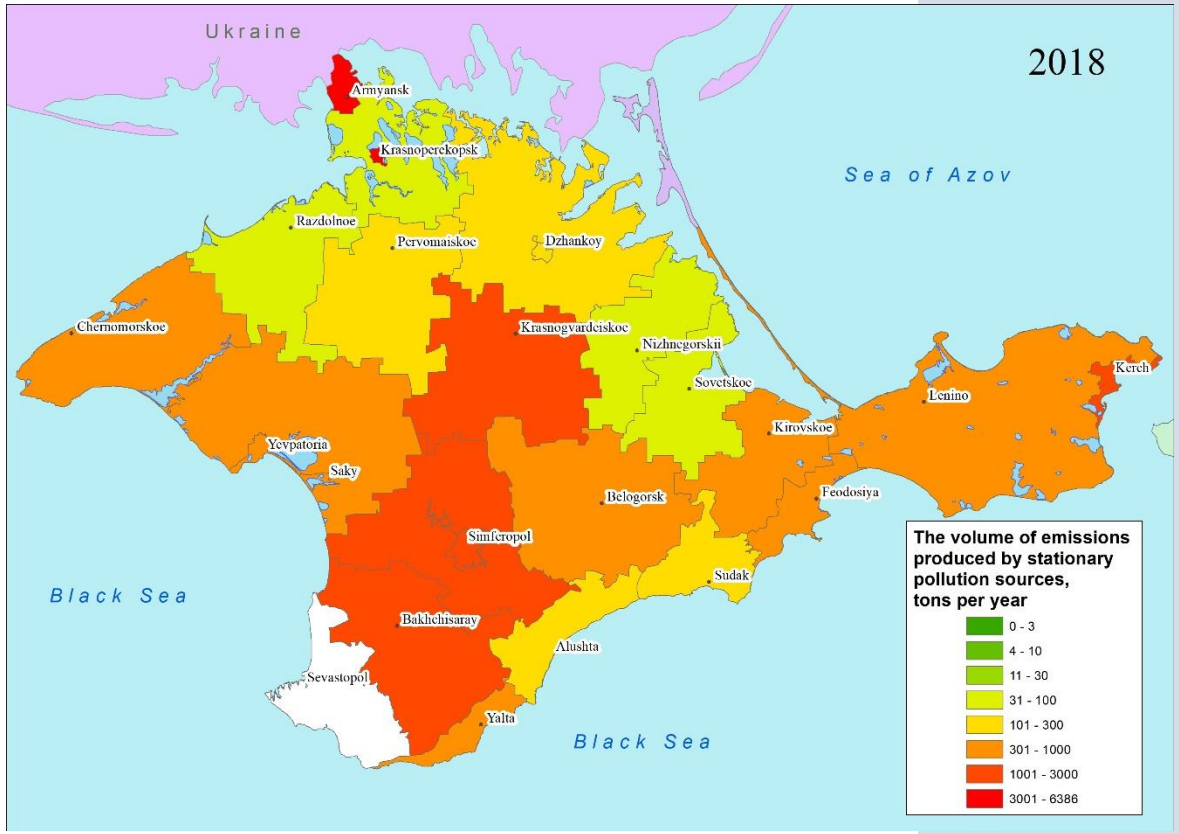
- This article is concerned with the visualization of the monitoring data of the emissions into the atmosphere from stationary pollution sources on the territory of the Republic of Crimea in 2013-2018 with the help of geographic information systems (GIS). A brief overview of the use of geographical information systems (GIS) for various types of environmental monitoring is provided. The structure of geographical information systems (GIS) is analyzed in detail. In the paper, map building is performed by means of the ArcGIS software package.

Problem statement

In the period from 2013 to 2018, the emission volume from stationary sources within the Republic of Crimea changes every year. The largest contribution to atmospheric emissions from stationary sources is made by industrial enterprises in the cities of Krasnoperekopsk and Armyansk. There is an increase in atmospheric emissions by more than 500 tons per year in the city of Krasnoperekopsk for the period from 2013 to 2018, in the city of Armyansk there is a decrease of more than 1000 tons per year. However, these two settlements are the largest air pollutants in the Republic of Crimea. The volume of emissions from stationary sources of pollution in Armyansk in 2018 is approximately 4,500 tons per year, and in Krasnoperekopsk it is 6,400 tons per year. The city of Simferopol with an indicator of air emissions of more than 2500 tons per year takes the third place in terms of air emissions in the Republic of Crimea.

The volume of emissions produced by stationary pollution sources in 2013, 2018, tons per year





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