

Geostatistical modeling of nitrate pollution of groundwater in the Mitidja

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Abstract:

The study aims to evaluate pollution by nitrates of water of the rainfall groundwater of the Mitidja.

The geostatistic approach is justified by the great space-time variability of the characterized hydrochimic data of the remainder by different sampling different and chemical analyses from various qualities.

The research will study the space evolution of pollution by putting forward the zones of strong content through a probabilistic study, by using the software SURFER 10 coupled to a GIS.

The identification of the space structure of the contents and the choice of the method of interpolation will be preceded by an exploratory and statistical analysis by the available data.

This analysis will make it possible to quantify the uncertainty of the contents while polluting which are produced.

The geostatistic approach allowing cartographic working of the hydrochimic information will take as a starting point the model "GeoSipol" (<http://www.geosipol.org>).

Key words:

Mitidja, cartography, pollution, nitrates, geostatistic, GIS