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Author: Ms. Nubar Habizadeh
National Aviation Academy - Azerbaijan, Azerbaijan

SPATIAL PLANNING IN COASTAL AREAS THROUGH GEOGRAPHIC INFORMATION SYSTEMS

Abstract

This study analyzes the current situation in the system of planning the development of coastal areas in Azerbaijan. It is a fact that the planning of the development of the Caspian coastal areas occupies an important place in the economic development of the Republic of Azerbaijan. In this regard, the characteristics of the relief in the area, the directions of their distribution, the distribution directions of their areas and the related ecological risk areas, and the assessment of the stress levels in terms of the involvement of such areas in infrastructure projects, were carried out on the basis of the morphometric analysis of the area, and this was the purpose of the study. In order to study the negative effects on the marine environment of the Caspian Sea, the management of waste generated in enterprises and organizations located in the sea and on the coastline, in residential areas is determined in accordance with the requirements of the current legislation, the quantitative and qualitative indicators of waste thrown into the sea and discharged into the sea are determined on a scientific basis, waste into sea water, negative effects on the soil, flora and fauna, as well as other water bodies are analyzed and studied, a data bank is prepared, relevant and regular measures have been taken to minimize pollution in the planned areas. The purpose of the study is that the use of various Geographical Information Systems (GIS) and Remote Sensing for the purpose of planning and management of the coastal zone has had a positive effect. The use of these tools is for timely detection and elimination of environmental problems in the Caspian Sea, monitoring of the pollution of the section of the Caspian Sea (lake) belonging to the Republic of Azerbaijan - in order to protect the sea from pollution, determining the sources of its pollution, the quantitative and qualitative indicators of pollutants discharged/discharged into the sea, the pollution of the sea consists of assessment and forecasting of the situation.