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USE GAT WHEN CREATING MAPS

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ABSTRACT

Today, geographic information systems are widely used in almost all sectors of the economy. In particular, in the creation of maps of historical and cultural sites, the creation of a database of the population, the study of sites of historical and cultural sites, their development

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INTRODUCTION

Today, geographic information systems are widely used in almost all sectors of the economy. In particular, in the creation of maps of historical and cultural sites, the creation of a database of the population, the study of sites of historical and cultural objects, their development, etc.

When creating maps of historical cultural objects, it is also possible to create maps of historical cultural objects with the ArcGIS 9.3 program. ArcGIS 9.3 is the ESRI software described above, which is developed in several series as a generation. The first generation of ArcGIS 9.3 was created in 1993 as an add-on to the Arc / Info system, and this program is intended for mass users. ArcGIS 9.3 is a very handy program for creating, analyzing and displaying cartographic data. The first and second versions of ArcGIS 9.3 were developed as the simplest and at the same time most effective program for viewing and analyzing geographic data (objects and events) spread over a particular area. The application of this program is diverse, namely business and science, education and management, social sphere, demographic and political research, industrial production and ecology, transport and oil and gas industry, land use and cadastre, and other areas.

With the release of the next generation of this program, the features in it will also increase. For example, while a 2nd generation representative has the ability to work with geographic spreadsheets, make decisions, and enter statistics in tabular form, the third generation is enriched with features such as spatial analysis and modeling. Today, the 10th generation of ArcGIS 9.3 software is used in industry and manufacturing, and it is filled with more features than the above, and the processing speed has also been increased [13].

ArcGIS 9.3 is designed to perform the following basic tasks:

- creation and editing of maps;

- visualization and design of maps;
- creation of thematic maps;
- Spatial andstatistical analysis of geographical and schematic data;
- -geocoding;
- - work with databases;
- Transfer map reports and conclusions to a printer or graphic files.

ArcGIS 9.3 can be used to work with spatial data. The main feature of the program is its simplicity in tabular form, good understanding and analysis of database-type files and data from the server database, their processing and processing.

Simple to master, ArcGIS 9.3 creates a user-friendly and user-friendly interface, and the cartographic modification is hidden no matter how much it is given. Operations are clear and simple, and the ability to work with basic data. To change a cartographic desktop, you just need to have work experience working with basic data.

The data window can be viewed in any number of 3 different views: map window, lists and graphs.

Displaying data in synchronous technology allows you to open several windows with the same data at the same time, and even when you change the data in one window, the change is automatically observed in other windows.

Working with raster data. The program under construction is simple enough to run raster data and link it to geographic projections. Importantly, the user must know at least 4 coordinate points.

Data visualization. This mode allows the user to display the data in a table view in a different view. For example, characters, diagrams, colored areas, and dashed objects can be viewed in a scaled way.

When depicting data on a map, the user sees the map in the middle of it, not the data in the form of a number.

Geoinformation analysis tools. ArcGIS 9.3 provides the ability to create a buffer (projected) boundary in the program, format production objects, create and modify objects, edit graphics, and more. The user has the ability to create thematic maps, colorize and design geographic objects based on parameters, create thematic maps, design and store geographic objects based on coloring and parameters, create and save for themed maps [11].

Advantages of ArcGIS software. At present, the technology of creating high-precision electronic digital maps with the extensive use of space and aerial photographs in the creation of geographic information systems in various sectors of the economy is being introduced, and the existing electronic digital maps of 1: 10000 and

1: 25000 are being updated. Alternatively, digital maps created in various formats are being converted to ArcGIS software formats.

ArcGIS software plays a key role in creating digital maps for land management and state land cadastre purposes, as well as for other purposes. The advantages of ArcGIS are:

- Development of high-precision maps and plans for land cadastre, cadastre of buildings and structures;
- Rapid provision of landowners, land users and tenants with digital maps of various scales;
- speed of mapping process compared to other programs;
- Ability to compare data;
- creation of centralized geo-databases;
- Ability to deliver maps directly to GPS and electronic taximeters;
- - provision of interactive geographic information services;
- -economic advantage and time saving.

Electronic maps of districts in the country are available in OAZIS and PANORAMA programs [13].

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