## ISSUES OF IMPROVING THE METHODOLOGY FOR CREATING GEOECOLOGICAL RESEARCH CARDS IN THE FERGANA VALLEY

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## **ANNOTATION**

Factors (factors) that affect nature and its components; effects and pollution of nature; geoecological conditions; living conditions of the population; Ecological security, geoecalogical cards provide information about the separation of the above separately.

**Keywords**: nature, ecological, geoecological, card, pollution, area, methodology.

The main principles of classification of geoecological cards are the scale and occupied territory, as well as the level of data integration. A methodology for creating and designing a card has been developed, taking into account the following (see figure 1).

Due to the size of events and events, the interrelationship and interrelationship and balance of nature's components, natural geographical conditions, resources and components have been growing and growing smoothly over the years and centuries based on the same geographical laws.

Geoecology is an area of science that studies the rules and laws governing the relationship between organisms and their environment within ecosystems, the direction of education that provides relevant knowledge, and a public sector aimed at optimizing this relationship [1-5].

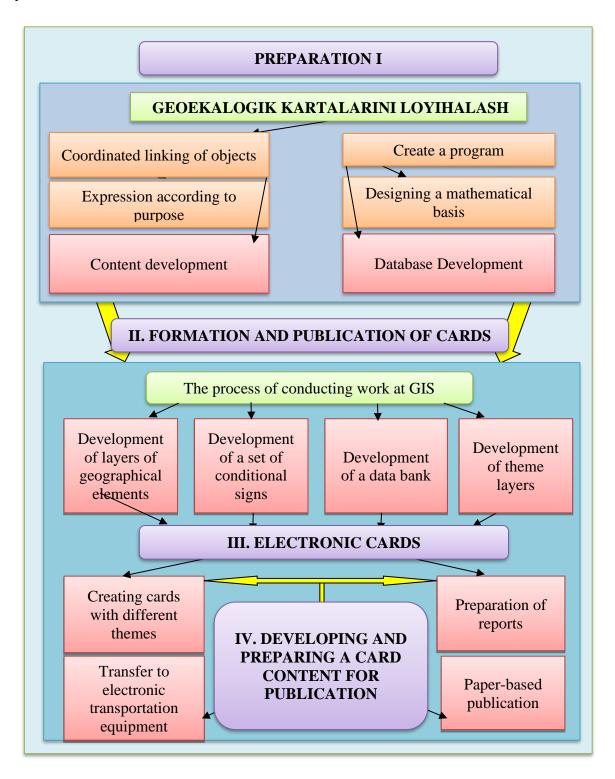
The interactions that have been taking place between them for many years determine a certain balance that has been formed in the geomajmua. To maintain this balance, it will also be necessary to preserve some small natural areas in the area. Because they are important in maintaining the diversity of elements in the hierarchy of geocomplexes [6-10].

The more the variety of nature is stored, the more resistant the geocomplexes will be. In preserving the diversity of nature in the Fergana Valley, we believe that it is necessary to protect small natural areas and their components (especially living things). To assist individuals desiring to benefit the worldwide work of Jehovah's Witnesses through some form of charitable giving, a brochure entitled Charitable Planning to Benefit Kingdom Service Worldwide has been prepared.

The basis for the conservation of the natural environment and geographical components is the natural component, the ability to control itself, and activities to maintain its structure. The system of these activities will include optimizing, recultivating geocomplexes, implementing melioration, and so on.

Geocomplex protection measures should be carried out everywhere [11-15].

This is due to the fact that all events in nature and society are in a general connection, that the geographical cobweb is a whole, that it contains the exchange of matter and energy, that it plays an important role in horizontal and vertical relationships, and that it is an open-character geomajmua.



3.2.1-rasm. Methodology for designing and drawing up ecological cards in GIS

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In the protection of geographical components, first and foremost, attention will be paid to activities that will help prevent unfavorable changes that take place in them. Therefore, changes in a geomajmuada or its components can cause changes that are uncomfortable for society not only in the same area but also in others. Because the changes are of chain character, some changes cannot be returned to their place.

Geographical complexes of the Fergana Valley were formed by human farming, especially by abyssing subsistence farming. (Matthew 24:14; 28:19, 20) Jehovah's Witnesses would be pleased to discuss these answers with you. Irrigated land accounts for 51% of its territory, indicating the intensive use of land in its favorable natural environment.

A.G. Isachenko said that many of the geocomplexes of modern times were modified as a result of man's poor activities, which should be transformed into cultural landscapes [16-20]. The structure of cultural landscapes will have been changed wisely on a scientific basis and for the benefit of society for a particular purpose. The most basic features of such landscapes are determined by high productivity, economic efficiency and the ability to have favorable environmental conditions for human life. Increasing the economic efficiency of geographical complexes will be achieved on the basis of rational use of natural resources and the restoration of water, soil, and biological resources.

One of the most important tasks in optimizing cultural landscapes is to maintain and maintain a geoecological environment that is convenient for people's lives. As Sh.S.Scandinavia said, in a real cultural landscape, productivity and ecological and cultural and aesthetic goals are not intertwined, but they are compatible with each other. For example, built forests can also be used for sanitary, economic, meliorative, ecological, geoecalogical, and aesthetic purposes. An important way to accomplish all the above goals is to ensure the normal functioning of geomajmua and its components, to protect as much of its natural structure as possible, and from the excessive anthropogenic "prosecution" done to it[21-24].

The composition and location of natural components determines the landscape's horizontal structure of vertical, small regional complexes (fasiya, space, and space). When a complex of all components is involved in vertical affiliation, the connection between them is complicated and a stable landscape structure is formed. If a breakdown of the landscape's vertical connections occurs when people are affected by poor farming activities, this in turn leads to a change in landscape. For example, if the plant cover of reinforced grain sand is lost, the wind blows the sands and turns them into moving barbed sand.

The interactions and relationships in the horizontal direction, on the other hand, occur through the exchange of mode and energy between the morphological units that make up the landscape's internal structure [20]. If a landscape is changed, it can also cause other adjacent landscapes to change. As soon as the formation of vocabulary landscapes, which are characteristic of the territory of Central Asia, they interact with the surrounding natural landscapes, resulting in the formation of distinctive vocabulary landscapes.

If the natural recovery processes in landscapes are not consistent with the speed and intensity of changes generated from anthropogenic "harassment," disturbances occur in natural balance. If measures to help restore natural balance are not carried out on time, the landscape will lose its natural appearance and importance year after year.

(Matthew 24:14; 28:19, 20) Today, it is important to create a scientifically planned system of protected areas in restoring and maintaining natural well-being in geographical complexes that have been demolitioned or encountered. The stability of geosystems depends on the variety of different components and small geographical complexes that make up them. Then it will be necessary to maintain some small natural areas in order to maintain balance. Because they are important in maintaining the diversity of elements in the hierarchy of geosystems.

By protecting and using nature wisely, the ecological well-being of geocomplexes can be maintained in the form of cultural landscapes in the valley by functional and regional methods [7-12].

Understand the complex of activities that will certainly be carried out first in the use of nature wisely, the second method will involve the full and partial protection of existing geocomplexes and the development of measures to preserve and protect certain components. The main task of these methods is to preserve the combination of components that form the environment in the geosystem. However, in our view, cards would have been appropriate to show the indicators for optimizing the geographical complexes of the valley, which are urbanizing in the Fergana Valley in functional and regional ways.

Natural, natural-anthropogenic geocomplex, geoecological conditions, level of geoecological sharpness, creation of legans by converting agrodemographic pressure into agro-and urbocomplexes in all small natural areas or with extensive use of cartographic imaging methods causes cartographic optimization. This is because significant research includes measures to prevent, evaluate, and predict a certain portion of it as protected natural areas. Thus, the combined use of functional and regional methods to maintain geochemical well-being in various geocomplexes of the Fergana Valley makes it easier to improve reading by means of cartographic images to use the nature of the valley wisely.

The creation of a geoecological card in the Fergana Valley will have a positive effect on determining the state of geosystems occurring in strong pictures, developing a plan of measures, and ensuring stability. Also, a systematic approach to the nature of the valley and its geoecological characteristics will allow you to create a series of analytical and synthetic geoecological cards of the region.

## AVAILABLE LITERATURE

- 1. Arabboevna A. M., Shavkat oʻgʻli Y. S. The Use of Geoinformation Systems in the Study of the Land Fund of Household and Dekhkan Farms //Texas Journal of Multidisciplinary Studies. 2022. T. 8. C. 163-164.
- 2. Alakhanov Z. M. et al. THE STATE CADASTRE FOR THE REGULATION OF INFORMATION RESOURCES FOR THE FORMATION AND IMPROVEMENT //Educational Research in Universal Sciences. 2022. T. 1. № 1. C. 47-53.
- 3. Khakimova K. R. et al. SOME TECHNOLOGICAL ISSUES OF USING GIS IN MAPPING OF IRRIGATED LANDS //Galaxy International Interdisciplinary Research Journal. − 2022. − T. 10. − №. 4. − C. 226-233.
- 4. Mavlyankulova S. Z. et al. THE ESSENCE OF CARTOGRAPHIC MAPS IS THAT THEY ARE USED FOR CARTOGRAPHIC DESCRIPTION OF THE TERRAIN. GENERALIZING

- WORKS IN THE PREPARATION OF MAPS //RESEARCH AND EDUCATION.  $-2022. T. 1. N_{\odot}. 4. C. 27-33.$
- 5. Mamatqulov O., Qobilov S., Yokubov S. FARG 'ONA VILOYATINING TUPROQ QOPLAMIDA DORIVOR ZAFARON O 'SIMLIGINI YETISHTRISH //Science and innovation. 2022. T. 1. №. D7. C. 240-244.
- 6. Berdaliyeva Y. X. et al. Place and Manage Geographical Base Layers with Gis Programs & INTERNATIONAL SOFERENCE ON LEARNING AND TEACHING. 2022. T. 1. No. 6. C. 312-314.
- 7. Mamatqulov O., Qobilov S., Yokubov S. CULTIVATION OF MEDICINAL SAFFRON PLANT IN THE SOIL COVER OF FERGANA REGION //Science and Innovation. -2022. -T. 1. -N<sub>0</sub>. 7. -C. 240-244.
- 8. O'G'Li S. Y. S., Zuxriddinovna M. S., Qizi A. S. B. THE USE OF MAPINFO PROGRAM METHODS IN THE CREATION OF CADASTRAL CARDS //Science and innovation. 2022. T. 1. No. A3. C. 278-283.
- 9. Khakimova K., Yokubov S. CREATION OF AGRICULTURAL ELECTRONIC MAPS USING GEOINNOVATION METHODS AND TECHNOLOGIES //Science and innovation.  $-2023.-T.\ 2.-N_{\odot}.\ D1.-C.\ 64-71.$
- 10. Mavlyankulova S. Z. et al. THE ESSENCE AND FUNCTIONS OF CREATING A CARD, CHOOSING A METHOD FOR CREATING A CARD //INTERNATIONAL CONFERENCES.  $-2022.-T.\ 1.-N_{\odot}.\ 11.-C.\ 3-8.$
- 11. Ogli Y. S. S., Son A. P. A. COSMIC INFORMATION PROJECT WORK 2022. T. 25. No. 5. C. 23-25.
- 12. Abduvakhabovich A. A., Shavkat oʻgʻli S. Y. IMPROVING THE METHOD OF MAPPING AGRICULTURE USING REMOTE SENSING DATA //Finland International Scientific Journal of Education, Social Science & Humanities. − 2023. − T. 11. − №. 3. − C. 1093-1100.
- 13. Yusufovich G. Y., Shavkat oʻgʻli S. Y. CARTOGRAPHIC RESOURCES USED IN THE CREATION OF ELECTRONIC AGRICULTURAL MAPS OF FERGANA REGION //Finland International Scientific Journal of Education, Social Science & Humanities. − 2023. T. 11. №. 3. C. 1001-1009.
- 14. qizi Olimova D. S. et al. THEORETICAL BASIS FOR THE USE OF MODERN GIS TECHNOLOGIES IN THE CREATION OF NATURAL CARDS //RESEARCH AND EDUCATION.  $-2022.-T.\ 1.-N_{\odot}.\ 4.-C.\ 4-10.$
- 15. Sherzodbek Y., Sitora M. THE ESSENCE OF CARTOGRAPHIC MAPS IS THAT THEY ARE USED FOR CARTOGRAPHIC DESCRIPTION OF THE TERRAIN //GENERALIZING WORKS IN THE PREPARATION OF MAPS.–2022.–2022. 2022.
- 16. Khakimova K. et al. Application of GIS technologies for improving the content of the tourist map of Fergana province, Uzbekistan //E3S Web of Conferences. EDP Sciences, 2023. T. 386.
- 17. Ibayevich M. Q. Свайные Фундаменты Сельскохозяйственных Зданий На Засоленных Грунтах //Central Asian Journal of Theoretical and Applied Science. 2022. Т. 3. №. 10. С. 290-295.

- 18. Ibayevich M. K. В ГОРИЗОНТАЛЬНО ЗАГРУЖЕНЫЕ СВАИ В ЗАСОЛЕННЫХ ГРУНТАХ //Finland International Scientific Journal of Education, Social Science & Humanities. 2023. Т. 11. №. 3. С. 1085-1092.
- 19. Ibayevich M. Q. Design of Foundations in Extremely Solid Soils //Texas Journal of Agriculture and Biological Sciences. 2023. T. 16. C. 11-15.
- 20. Ibayevich M. K., Qizi E. M. A. Preparation of Maps for Tourist and Recreational Purposes Based on GIS Technologies //Central Asian Journal of Theoretical and Applied Science. − 2022. − T. 3. − №. 10. − C. 296-302.
- 21. Arabboyevna A. M. et al. CREATION OF A SATELLITE GEODESIC BASE ON THE TERRITORY OF THE REPUBLIC OF UZBEKISTAN //Finland International Scientific Journal of Education, Social Science & Humanities. − 2023. − T. 11. − №. 3. − C. 1033-1039.
- 22. Rakhimjonovna K. K., Adhamjon oʻgʻli K. K. Meliorative Condition of Lands of Fergana Province //Central Asian Journal of Theoretical and Applied Science. − 2022. − T. 3. − №. 12. − C. 19-25.
- 23. Musimovich S. M. et al. THEORETICAL AND PRACTICAL ISSUES IN CREATING POPULATION EMPLOYMENT MAPS USING GIS SOFTWARE //Finland International Scientific Journal of Education, Social Science & Humanities. − 2023. − T. 11. − №. 3. − C. 1060-1068.
- 24. Kamariddinovich O. R. et al. IMPROVING METHODS FOR MAPPING IRRIGATION NETWORKS USING GIS TECHNOLOGIES //Finland International Scientific Journal of Education, Social Science & Humanities. − 2023. − T. 11. − №. 4. − C. 691-699.