



Natural Geographical Research In The Fergana Valley

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ABSTRACT

The article describes the study of the components of nature in the Fergana Valley in the second half of the twentieth century, based on its stage of development in space and time, in the fourth quarter of the twentieth century, the geoecological significance of studying in the Fergana Valley. The dynamics and scientific results of complex natural geographical researches carried out during the 2000s are described.

KEYWORDS

Fergana Valley, Department of Resettlement, Department of Land Reclamation, Council for the Study of Productive Forces (SOPS), lyoss genesis, hydrometric division, geochemistry, zoogeography, expedition, glaciology, hydrogeology, geomorphology.

INTRODUCTION

The research conducted in Central Asia, including the Fergana Valley, is mainly characterized as a complex, with emphasis on natural geography and ecology.

Research organizations: Department of Resettlement, Department of Land

Reclamation, Geology Committee, Turkestan Department of Military Topography, Russian Geographical Society and its Turkestan branch, Hydrometeorological Department, later organized Pamir, Tajik-Pamir, Kyrgyz complex expeditions, Central Asian State University Expeditions organized by the

institutes and departments of the Academy of Sciences of Uzbekistan, the Academy of Sciences of Uzbekistan and its research institutes, as well as others, also tried to solve individual problems of the components of nature.

THE MAIN FINDINGS AND RESULTS

Resettlement staff Soils, plants and their natural-historical maps of the study area, for practical purposes to determine the boundaries of deserts, semi-deserts and dry steppes, changes in soil and vegetation in the mountains by altitude, study of rocks, lysis genesis, river valleys and paleogeography of the lakes as well as other geographical and ecological issues.

The establishment of the Expeditionary Research Commission (ERC) by the Soviet FA in 1928 led to the organization of complex geographical-geological expeditions in all regions of Central Asia. Founded in 1928, the Pamir Complex Expedition is one of the largest scientific expeditions of the 1920s in terms of composition, regional scale, breadth of topics and remarkable scientific results. Together with the Pamir complex expedition and the expeditions of the Institute of Soil Science and Geobotany of the Central Asian State University, a completely new era in the study of the nature of the republic began.

In 1930, a complex expedition of Tajikistan led by N.P.Gorbunov and D.I. Shcherbakov was engaged in the search for natural resources in the Fergana Valley. The main scientific group and detachments are headed by N.L.Korzhenevsky, A.E. Fersman, D.V. Nalivkin, D.V. Nikitin, V.I. Popov, M.G. Popov and other

famous scientists. The main task of the expedition was to provide a complex natural geographical description of the whole area on a clear triangulation and cartographic basis. In 1932-1936, the Tajik-Pamir complex expedition began its work. The complex expositions of this expedition to the northern expositions of the Turkestan-Alay ridges in the Northern Tajikistan region, ie in the Fergana Valley, solved great scientific and practical problems in the study of the natural conditions, geology and minerals of the region.

As the Tajik-Pamir complex expedition mobilized great scientific forces to study the territory of the Fergana Valley, thanks to their tireless 5 years of selfless work, a very large area of the complex was naturally explored geographically. Many articles and monographs were published based on the scientific results of the expedition. The Central Asian branch of the Geological Committee, in the 1930s, and later the Central Asian Geological Survey, also organized large expeditions to study the nature and natural resources of our country, including the Fergana Valley.

The detachments of the Kyrgyz complex expedition, organized in 1928-1935, thoroughly studied the mountain ranges and valleys of Tianshan. The data collected by the expeditions of Kyrgyzstan on the natural geography, geomorphology, hydrology and hydrogeology, geology, geophysics, geochemistry, soil geography and geobotany and zoogeography of the Fergana Valley are particularly large.

From the point of view of complex natural geographical studies, regional-landscape

studies in the Fergana Valley, the issues of their zoning began to be studied rapidly only in the 50s. Separate complex geographical comparison of the internal features of the nature of the valley and the surrounding areas by scientists of Central Asian nature R.I.Abolin (1929), E.P.Korovin, A.N.Rozanov (1938), N.A.Korzhenevsky (1941, 1956, 1960), V.M.Chetirkin (1960), E.M.Murzaev (1947, 1957, 1961), L.N.Babushkin (1954, 1964), N.A.Kogay (1964) and others. which was the basis for the beginning of his scientific work.

R.I.Abolin in his classic work "Fundamentals of natural-historical zoning of Soviet Central Asia" (1929) identifies the main landscape views and identifies 13 natural regions in Turkestan district. Two of these natural districts, Kokand and East Fergana districts, are located in the Fergana Valley. The author distinguishes between natural and cultural landscapes based on plant associations [2].

L.S.Berg (1952) studies the complex regional landscape features of the Fergana Valley from a geomorphological, hydrological, climatic, soil and agricultural perspective.

N.L.Korzhenevsky (1925, 1941, 1956, 1960) shows the landscapes of the Fergana Valley as separate views for each part of the territory.

In 1938, E.P.Korovin and A.N.Rozanov in their complex work on the natural historical zoning of Central Asia identified 3 natural and economic regions in the Fergana Valley: West Fergana, North Fergana, East Fergana. The authors have made a very in-depth analysis of the nature of these regions from an economic point of view. In the following stages, the great geographer V.M.Chetirki's contribution

to the successful solution of complex natural geographical problems of Central Asia was great. In 1943 he published The Geography of Turan (a work in rotoprint in 1958 and a typographic work in 1960), devoted to the complex description and zoning of Central Asia.

The period of 1920-1940 can be considered as the period of complex natural geographical research. Because at that time many complex expeditions were organized, which were distinguished by their scientific potential and the size of the region [3].

The study of the nature of Central Asia, including the Fergana Valley, in the 40s and 60s was carried out not only in some natural complexes, that is, in differential directions, but also in regional complex or integral directions. In the 1950s, the Republican Council for the Study of Productive Forces (SOPS) of the Academy of Sciences of Uzbekistan, like other regions of the republic, conducted regular comprehensive geographical studies of the Fergana Valley. Higher education institutions, especially universities, have become centers of research. For example: geographers of the Central Asian State University L.N.Babushkin, L.N.Korzhenevsky, V.L. Schultz, O.Yu. Poslavskaya, N.D.Dolimov and others came up with the initiative of complex natural geographical study of Uzbekistan. Examples of large regional complex geographical works created as a result of research over the years are the work "Uzbekistan SSR" (1956, 1963) and "Central Asia. Natural Geographical Definition".

By 1961, E.M.Murzaev's work "Central Asia" was published for the third time, which paid great attention to the complex study of the Fergana Valley and the differentiation of regional landscapes. Published by the Institute of Geography of the above-mentioned FA "Central Asia. The author of some chapters of the monograph "Natural geographical definition" (1968) is E.M.Murzaev (natural geography), E.P.Korovin, L.E. Rodin, N.I.Rubtsov (geobotany), A.N. Formozov (zoogeography), A.N.Rozanov (soil geography), R.D.Zabirov (glaciology), L.A.Chubukov (climatology), V.N.Kunin (hydrogeology), S.Yu. Geller (geomorphology). This work, which has a wide encyclopedic content, served as a solid foundation for further geographical research. However, the main shortcoming of this work is that Central Asia as a country is defined and regionalized not on the traditional natural border, but on the administrative border of the four neighboring republics [4].

In 1958, the soil cover of Central Asia was completely zoned by A.N.Rozanov. This system of A.N.Rozanov served as a solid basis for further zoning experiments. By the 1960s, the work on natural geographical zoning of the Fergana Valley began. In the natural geographical zoning of the Fergana valley V.M.Chetirkin (1960), L.N.Babushkin (1954), L.N.Babushkin, N.A.Kogay (1964), especially for the plains and hills of the Fergana valley A.A.Abdulkasimov (1964), the work of Yu.Sultanov et al. (1965) for the southern mountainous part of the valley.

The monograph "Central Asia", prepared by the Institute of Geography of the Academy of Sciences in 1968, completed a comprehensive

study of the nature of the region, including the Fergana Valley, until 1968 and identified the next current areas of research. In addition, the period 1961-1980 was a period of generalization of complex geographical knowledge about all components of the nature of Uzbekistan, including the Fergana Valley. According to the final results, the direction of research that can now be carried out has shifted to the solution of natural geographical and geo-ecological issues in a constructive direction. Research in this area began to be conducted mainly by local geographers and landscape scientists. [5].

CONCLUSION

As a scientific result of research on the components of nature in the Fergana Valley, we have developed a map of the location and routes of some studies. Through this map, it is possible to find out how large the scope of research conducted in the valley area is.

In order to unify the research conducted in the Fergana Valley, we divided them into stages and periods. In the division into stages and periods, we took into account the scale of the results of research conducted in the region, as well as the economic, social, political situation specific to that period, period. The stages of development of natural geographical research are given in the table.

The results of the study of the components of nature in the Fergana Valley can be divided into several major stages, including the first major stage of research: - Determining the geographical location of components in the directions, comprehensive with recognition issues engaged. These studies contain specific

laws, views and directions on geological-geomorphological, hydroclimatic, soil, flora and fauna. The second large-scale research: - Defined laws, views and directions have been scientifically proven in the study of natural components. The third large-scale research: - The use of natural complexes, their components, has led to specific geo-ecological problems. Occurrence of geo-ecological processes in geo-ecosystems led to an unmanageable level in some parts. Under such conditions, the complex nature of

geographical research necessitates an increase in the geoecological significance.

For example, The irrational, extensive use of these components for the development of farms for many years has led to an increase in the geoecological significance of geological-geomorphological, hydroclimatic, soil, flora, fauna, complex natural geographical research. This situation, as mentioned above, has radically changed the direction of all research conducted in the region.

Table.1

Stages of development of natural geographical research in the Fergana Valley

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	Step I	1880-1900 Years	In 1876, Turkestan became a full-fledged colony of the Russian Empire	The period of recognition of the valley in terms of geographical location	A.F.Middendorf N.A.Severtsov, A.N.Semyonov, A.P.Fedchenko, B.A.Fedchenko, I.V.Mushketov, V.N.Veber and others.	Expeditions organized by the RGJ and the Military Department, and others	It was the original works of the Fergana Valley that formed the basis for further research.

2	Phase II	1901-1917Years	Many expeditions were organized to turn Turkestan into a raw material base.	The period of research on the nature of the Fergana Valley, the location of natural components, its development	S.S.Neustruev, N.P.Vasilkovskiy, V.N.Veber, L.S.Berg, I.V.Mushketov, D.I.Mushketov, D.V.Nalivkin, R.I.Abolin, M. N.Bogdanov and others	Expeditions of the Department of Land Reclamation and Resettlement, etc.	In the process of complex research, unique original ideas, imaginary directions and views emerged.
3	Phase III	1918-1940Years	In order to use the nature and resources of the country, the study of the components of nature began.	The period of formation of scientific ideas, perceptions as a result of research	N.P.Vasilkovskiy, V.N.Veber, R.I.Abolin, E.P.Korovin, M.N.Bogdanov, D.N.Kashgarov, A.N.Rozanov, I.A.Priobrajenskiy, L. A.Molchanov. N.A. Zarudny et al.	Pamir, Tajik-Pamir, Kyrgyz complex expeditions and others.	In the process of studying the flora and fauna, ideas and ideas were formed.
4	Phase IV	1941-1945Years	Research has been conducted for defense purposes.	The period in which research was conducted in the interests of defense	N.M.Sinitsin, I.S.Shchukin, B.A.Petrushevskiy, O.P.Shcheglova, E.P.Korovin, V.M.Chetirkin, N.A.Korjenevskiy, I.K.Nikitin, H. Abdullaev, EM Murzaev, AP Markovsky and others.	Expeditions to search for industrial ore deposits and forage pastures in Chatkal, Qurama, Fergana, Alay and Turkestan ridges.	Many ore and radioactive metal deposits have been found in the mountains surrounding the Fergana Valley. The foundation of Uzbek metallogeny was laid.

5	Phase V	1946-1970 Years	The issues of land development, industrial development, achieving cotton monopoly in agriculture have been resolved.	It is a period of research of natural geographical complexes and analysis of ideas, ideas in the process, substantiation of scientific views.	D.I.Shcherbakov, I.K.Nikitin. E.M.Murzaev, A.P.Markovskiy N.A.Korjenevskiy, V.M.Chetirkin, V.L.Shults, N.D.Dolimov, L.N.Babushkin, O.Yu.Poslavskaya, N.A.Kogay, N.I.Rubtsov, L.E.Rodin A.A.Abdulqosimov, Yu.Sultonov, et al.	. Expeditions of the Republican Council for the Study of Productive Forces (SOPS) and others	Natural geography and network zoning were established. The formed idea, imagination and scientific directions found their basis in the research process.
6	Phase VI	1971-1990 Years	. High results have been achieved in industry, transportation and construction. Cotton monopoly played a key role in agriculture. Geoecological problems have arisen. The totalitarian regime has entered a phase of collapse	The period of use of new scientific achievements and methods in the study of anthropogenic impact on the natural environment	MM Mamatkulov, AA Rafikov, A. Nigmatov, I. Abduganiev, Yu. Sultanov and others.	Expeditions organized by research institutes of the Academy of Sciences of Uzbekistan and local universities, etc.	.Specific environmental and geo-ecological problems arose and reached their culmination

7	Phase VII	From 1991 to the present	. The republic gained the status of an independent state and moved to the front to identify and eliminate the existing geo-ecological problems	The period of geo-ecological research and the beginning of the solution of problems	Z.M.Akromov, Sh.S.Zokirov, A.A.Rafiqov, A.Nigmatov, Yu.Sultonov, I.Abduganiev, A.Maksudov, K.Boymirzaev, H.Vahobov and others.	Expeditions organized mainly by local universities, etc.	Substantiation of nature complexes and their components, zoning, geo-ecological perspective.
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REFERENCES

1. Raximbekov R.U., Dontsova Z.N. From the history of studying the nature of Central Asia.-Tashkent: // Publishinghouse,"Teacher". -1970. -P.3-271.(Рахимбеков Р.У., Донцова З.Н. Из истории изучения природы Средней Азии. -Ташкент: //Изд-во, «Ўқитувчи». -1970. -С.3-271.)
2. Abolin R.I. Basics of natural - historical zoning Soviet Central Asia.//Tr.SAGU,ser XII a, Geography, -1929. -P.12-145.(Аболин Р.И. Основы естественно - исторического районирования Советской Средней Азии. //Тр.САГУ, сер XII а, География, -1929. -С.12-145.)
3. Chetirkin V.M. Central Asia. (Experience in Integrated Physics-geographic characteristics and zoning).Tashkent, SAGU. 1958 -P.66-71.(Четиркин В.М. Средняя Азия. (Опыт комплексной физико-географической характеристики и районирования). Ташкент, САГУ. 1958-С.66-71.)
4. Murzaev E.M. Central Asia. Physico-geographical essay. // 1- Publishing house-1947, 2 ed. -1957, 3rd ed. -1961. -M.: Your geographer.(Мурзаев Э.М. Средняя Азия. Физико-географический очерк. //1-изд-1947, 2 изд. -1957, 3-изд. -1961. -М.: Географиз.)
5. CentralAsia. Physico-geographicaleessay. // Publishing houseIn-tgeogr. AN USSR. -M.: -1968. -P.4-301(Средняя Азия. Физико-географический очерк. //Изд-во Ин-т геогр. АН СССР. -М.: -1968. -С.4-301)