

**ECOLOGICAL ATLAS OF IRKUTSK REGION:
NEW MAPS FOR MANAGEMENT OF REGIONAL DEVELOPMENT**

V.V. Vorobiev, A. R. Batuev, A. V. Belov, B. A. Bogoyavlenski
Institute of Geography SB of RAS,
Ulanbatorskaya, 1, Irkutsk, 664033, Russia

Ecological atlas of Irkutsk region was composed by academic and branch scientific-research institutes, universities and regional government bodies in co-operation. Common scientific-methodological leadership of work on atlas was carried out by Institute of Geography SB RAS.

The ecological atlas of Irkutsk region is a necessary element in the information system of the solution of the ecological problems on the present stage. It is a fundamental cartographical work, which reflects the connection between social production and environment in the whole complication and interaction of the internal and external factors.

This atlas is a part of the complex of the fore-planned working out, which determine the strategic directions of the nature management and optimization of the ecological situation in the region. It is a necessary element and a normative-ecological basis of the forming and the new regional policy realization connected with the decentralization of the state and economic structures and with the transmission of the number of the important functions of management to the regional level. The spatial-information organization of cartographical material is oriented on the main structures of planning and management - region and district, this fact raises the degree of the use of atlas and provides the systems of different levels with one information basis.

The program of the ecological atlas envisages the use of the material by the organization and by the services of the government bodies during the working out of the social-ecological, ecological-economic and economic priorities.

The use of atlas material will allow to exercise control and observations after the activity of the people who are occupied with nature tenure, to reveal the negative tendencies in proper time, which are connected with concrete conditions and forms of nature tenure, that fact must guarantee high quality of environment and of life-support system for present and future generation.

The atlas maps reflect the conditions of human environment, its dynamic, interrelation between biocoenosis and environment, i.e. totality of relation and factors, which determine the conditions of the existence and development of organisms and their associations. All

the elements of environment, which determine the main relations in forming of ecological situation are attributed to the ecological factors.

Environment is characterized by great variety and is made up of a great number of the elements, effects and conditions which are dynamical in time and in space. Ecological factors, all the organisms are connected with them, are divided into nature factors (conditions, resources) and anthropogenous, connected with human activity. The character of nature and anthropogenous factors interaction predetermines the block organization of atlas structure.

The first block consists of inventory-verification maps of environment conditions and resources. It consists of four parts, which characterize surface, entralls of the earth, climate, waters, show cover, soils, vegetation, animal world, landscapes of the region from point of view of their influence on forming the ecological situation. This section consists of more than 100 maps.

The estimation-prediction maps of the anthropogenous influence on environment, maps of anthropogenous environment factors forming, maps of optimization and management of nature tenure, maps of environment quality and estimation of population health's state form the second section. The maps of this section are intended for their using during the implementation of specific functions of management-planning organization, optimization, control and regulation. It consists of four parts and includes about 100 maps. In general the atlas includes more than 200 maps which are supplemented by great number of diagrams, schemes and graphs.

The atlas is intended for the workers of regional and rayon administrations, officials of state institutes, organizations, which are connected with nature resources management, scientific-research institutes, hydrometeorologists, ecologists, biologists, workers of agriculture, for everybody who are interested in rational nature resources tenure and preservation of the environment.