

Kola Science Centre RAS (UArctic member)

Kola Science Centre RAS is a complex scientific institution carrying out basic research and high-latitude regions of the Earth to provide the scientific basis of resource potential estimation for exploration and development in the Arctic. These studies expand the knowledge base and data necessary to identify the most important factors controlling the state and dynamics of the natural systems interaction in Polar Regions. Due to the specificity of the region and its geographical location, the efforts of the Kola Science Centre are focused on developing the following scientific areas:

- In the field of natural sciences.

Study of the properties and parameters of natural systems in the Euro-Arctic region, their role definition in the global geosphere processes; extent estimation of the geochemical matter transformation in the Arctic geobiosphere systems, identification of natural evolution trends and prognosis of destructions under the influence of anthropogenic factors.

- In the field of technical sciences.

Scientific bases of nondestructive nature development, creation of ecologically sound technologies for the sustainable use of natural and man-made materials to maintain the quality of the environment, taking into account the specifics of the North; improvement of methods and systems for controlling the balance of the technosphere and the environment. Design and development of regional information systems and automated learning systems. Development of scientific bases of rational energy policy.

- In the field of social sciences.

The study of social and ethnic structure of society, the dynamics of migration, formation and distribution of human resources, the quality of life in the Arctic taking into account the specificity of indigenous peoples of the North' traditional management practices; development of scientific bases of Northern economy management.

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