

GISAP:

EARTH AND SPACE SCIENCES

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Our planet is not only the unique cosmic object and extraordinary set of organic, inorganic compounds and biological resources. It is also a grandiose carrier of data about space, time, infinite cosmos and a carbon-based form of life. Almost every, even the smallest material element of the Earth, makes its own contribution to the physical and chemical harmony and biological balance the existence of the Blue planet is based on. Having such an important functional value, every such element is a spatial-temporal result of interaction of matter and energy and also the objective evidence of the evolution. Objects of living and lifeless nature on Earth at their deep studying are potentially capable not only to reveal retrospective aspects of own existence, but also to provide us with analytical data for forecasting prospects of development of natural processes.

Knowledge of Earth always has the basic nature in many aspects predetermining the development of the majority of spheres of scientific gnoseology. It is connected with the fact that, for example, theoretical concepts of natural and fundamental sciences are mostly based on the data coming from researches of the general structure and components of our planet as well as the space surrounding it.

The sphere of knowledge connected with material reality is potentially limitless. Considering the circumstance that Earth is the key conductor of human knowledge about the world, the general array of the most important data about “the third planet from the Sun” seems to be unlimited.

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