

REVIEWS AND SURVEYS

EARTH SCIENCES IN THE YEAR OF ECOLOGY (bibliographic review)

At the CIS summit in Ashgabat, 2013 was announced as the year of environmental culture and the environment throughout the Commonwealth of Independent States.

Earth sciences are closely related to the study of the environment, so we can find the books of environmental content in the reviews of new books on geography and geology.

Among them the attention is paid to *Magmatism, Tectonics, Geodynamics on the Earth: Time and Space Connection* collective monograph [1]. This is the work by the scientists of the Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry of the Russian Academy of Sciences, headed by Professor O. Bogatikov, published by Nauka Publishing House. It is devoted to the study of the processes within the earth crust that occur constantly and lead to periodic “awakening” of volcanoes.

The processes of change and development take place not only on the Earth but at the bottom of the seas and oceans. The researchers also study them. The evidence of this is the new monographs. Attention should be paid to the work by the outstanding Russian explorer, geographer and meteorologist Yuri Izrael—*Anthropogenic Ocean Ecology* [2]; a solid folio written by V. Rumynin—*Geomigratory Models in Hydrogeology* [3] and published by the St. Petersburg branch of the Institute of Environmental Geoscience of the Russian Academy of Sciences. The work considers the changes in the hydrosphere of the Earth that take place under the human activity and have a global character, analyzes the various concepts of anthropogenic ecology of the ocean. There are various models of geomigration that are relevant to assess the quality of groundwater, predictions about the changes under the influence of some technogenic factors.

Among the new books and publications there are some that are dedicated to particular scientists and their contribution to the development of earth sciences. These include a collection of essays, memoirs and materials—*Life Devoted to Geology* [4]. It is dedicated to the life and work of the outstanding Russian scientist, corresponding member of the USSR Academy of Sciences I.V. Luchitsky (1912–1983), known in the history of science as the founder of the national paleovolcanology, experimental tectonics and the compiler of the first geological maps of the territory of present-day Mongolia.

The member of the Academy of Sciences and Lieutenant General of Medical Service O.G. Gazenko (1918–2007) is known in our country and far beyond its borders,

as the leading specialist and the founder of space medicine. However, little is known of this fact in the biography of the famous scientist that he had a serious passion for geography and researches in the field of installation of air corridors based on the topography and landscape earth's surface ... One can learn about this in *Akademik O.G. Gazenko* scientific and biographical edition, published by Slovo Publishing House [5].

A fundamental work created by professor A.N. Lastochkin called *General Theory of Geosystems* can be a reference book for future professionals in the field of natural sciences, without exaggeration [6].

We have already mentioned that Earth sciences are closely connected with the environment protection. The evidence of this is the collective work by Tyumen scientists led by Professor of Tyumen State University, Doctor of Geographic Sciences V. Kozin. It is called *Ecology* [7]. It considers the problem of the atmosphere, hydrosphere, terrestrial ecological systems in modern conditions as well as the problem of preservation of the ozone layer.

In addition to the general scientific editions and publications on the issues of the whole country, there are books about Tyumen Region among new items in Information Library Centre of Tyumen State University. Among them, first of all it is worth mentioning the work by the employees of the Siberian Scientific–Analytical Center called *Discovery of the Century: 1973. Chronicle of the Geological Development of Western Siberia* [8]. In this book of more than five hundred pages with documentary precision we can observe the history of the formation and development of oil and gas facilities in Tyumen Region and Khanty–Mansi Autonomous Area—Yugra and Yamal–Nenets Autonomous Area.

The collection of scientific articles and researches under the title *Optimization, Technology and the Development of Oil Fields* [9], published by Tsessiya Publishing House in 2012 is dedicated to the peculiarities of the development and the use of natural ground storage of modern Tyumen.

Among the publications about natural resources of our region for a mass audience, one can find a picturesque photo album by Sergey Anisimov—*New Urengoy is Gas Riches of Russia* [10], published in St. Petersburg. Unique pictures give an idea of the harsh beauty of the Far North, its heroic people who provide progressive development of Russia.

On the whole, the survey shows only a small, but quite expressive part of the literature on geographical and geological problems that enlarges the university library funds. All the previewed editions are published with the support of large research funds and programs such as the Russian Foundation for Basic Research, the Federal Purpose-oriented *Research and Scientific–Pedagogical Staff of Innovative Russia* Program and have already got recognition in the scientific community.

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