

ON THE USE OF UNMANNED UNDERWATER VEHICLES IN THE DEVELOPMENT OF DEEP-SEA MINERAL DEPOSITS

A.F. Scherbatyuk

Over the past few decades, there has been a growing interest in the development of minerals found on the seabed. First of all, this is due to the growing needs of modern industrial production and the shortage of certain metals, including rare earths, in onshore mines. The article describes the tasks associated with the development and trial testing of technologies for the extraction of deep-sea minerals, and considers the possibilities of using unmanned underwater vehicles in their solution. Some data on the current state of technologies for the extraction of marine solid minerals in the world and Russia are given. Marine technologies developed in the Far Eastern Branch of the Russian Academy of Sciences with the use of unmanned underwater vehicles suitable for solving problems arising from the extraction of marine minerals are discussed, and the experience of their use is considered.

Keywords: deep-sea minerals, unmanned underwater vehicles, deep-sea mineral extraction technologies.

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About the author

SCHERBATYUK Alexander Fedorovich, Doctor of Technical Sciences., corr.-member of RAS, chief scientist
Institute of Automation and Control Processes Far Eastern Branch
of the Russian Academy of Sciences

Address: 5, Radio st., Vladivostok, 690041, Russia

Research interests: designing and application of marine robotic systems, positioning of unmanned underwater vehicles

Phone: +7(902)52-38-156

E-mail: alex-scherba@yandex.ru

ORCID: 0000-0002-7600-6711



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