

THE CONCEPT OF THE INTEGRATED SYSTEM CONSTRUCTION FOR ECOLOGICAL MONITORING OF THE SKERRY REGION OF LAKE LADOGA

Andreev M.Ya., Rubanov I.L., Stefanov Yu.A.

ОАО «Kontsern «Okeanpribor»
46 Chkalovskiy pr-t., St. Petersburg, 197376/ E-mail: mfp@mail.wplus.net

Borisov A.V.

Karel'skiy branch of ОАО «Kontsern «Okeanpribor»
3 Leningradskaya Str., Laasonen Settlement, Republic of Karelia, 186734

Rubanova I.M.

St. Petersburg State University of Economics
7 Kavalergardskaya Street, St. Petersburg, 191015. E-mail: irina-rubanova2005@yandex.ru

ABSTRACT

The staff of Karelian Branch of a joint stock company “Concern “Okeanpribor“ has developed an integrated system for ecological monitoring of the skerry area of Lake Ladoga. Lake Ladoga plays an important part in industrial development of the North-Western Region of the Russian Federation and providing the living standards for its multimillion population. Raw materials primary processing industries account for a large share in business in Lake Ladoga basin. Power, chemical, forest, pulp-and-paper and machine-building industries have been developed in the region. Besides, Lake Ladoga is the intensive shipping and tourism area. Thus ecological problems arising in the region demand attention. The multilevel man-machine complex designed by the authors has been tested both under laboratory conditions and at sea. If modernized, it will enable to carry out the automated ecological monitoring of water environment in the region.

Key words: ecological monitoring of water environment, concept of an integrated system construction.

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