

# COMPLEX MODELING OF SUBMARINE VOLCANOES 2.7 AND 2.8, THE KURILE ISLAND ARC

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The paper provides results from application of designed modern computer techniques for interpretation of materials from complex geophysical investigation of submarine volcanoes 2.7 and 2.8, which are located west of the south-western coast of Onkotan Island in the Kurile island arc. The research resulted in estimation of rock magnetic properties in natural deposits and revealed that the south-western flanks of submarine volcano 2.8 are the most magnetized with their productive magnetization of about 2 A/m. The authors suggested that the feeding channels of volcano 2.7 stretch southwest, while the feeding channels of volcano 2.8 stretch subvertically, southwest and southeast. A peripheral magma chamber of the volcano was revealed at the depth of about 650 m.

*Keywords: interpretative geophysical techniques, submarine volcano, the Kurile island arc.*