THE ORIGIN OF ENCLOSED DEPRESSIONS ON THE EASTERN SAKHALIN SLOPE

B.V. Baranov[1], D.D. Rukavishnikova[1], V.G. Prokudin[2], Y.-K. Jin[3], K.A. Dozorova[1]

[1]P.P. Shirshov Institute of Oceanology of the Russian Academy of Sciences,
Moscow 117997, Nakhimovsky av., 36, Russia; e-mail: bbaranov@ocean.ru
[2]V.I. Il'ichev Pacific Oceanological Institute, Far East Branch of the Russian Academy of Sciences,
Vladivostok, 690041, Baltiyskaya str., 43, Russia
[3]Korea Polar Research Institute 213-3 Songdo-Dong, Yeonsu-gu, Incheon 406-840, Korea.

The article presents new data on bathymetric and seismoacoustic research obtained in frames of two international projects in central part of Eastern Sakhalin slope. Enclosed depressions that were mapped within the study area are not pockmars, which occur on the sea bottom due to blasts of gas from sediments as it had been supposed previously. Such formations are caused by subsidence of sediments along the system of modern faults. The faults are represented by NS-striking strike-slips and the related normal and reverse faults.

Keywords: eastern Sakhalin slope, enclosed depressions, sediment cover, faults.