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**SOUTH CASPIAN BASIN: GEOCHEMISTRY AND FLUID FLOWS
OF SUBMARINE FOLDED ZONES**

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Abstract. The paper deals with characteristics of volumes of fluid phase and hard phase emanating by the Caspian Sea mud volcanoes. There is given a detailed characteristics of water and gas chemical composition, carbon isotopic composition of the hydrocarbon gases of the mud volcanoes. There are also the depths of gas formations counting according to isotopic composition of ethane carbon of gases and gas-hydrates. The character of manifestation of multicomponent geochemical anomalies by mud volcanoes on the Caspian Sea seafloor is described as well. A great influence of mud volcanoes upon the geochemical and ecological condition of the Caspian Sea.