https://doi.org/10.48368/bgs-2023.1.N7

Resource assessment of gas hydrate deposits in the Black Sea

Atanas Vasilev[1], Ivan Genov[1], Rositsa Pehlivanova[1], Eva Marinovska[2]

[1] Institute of Oceanology – Bulgarian Academy of Sciences, PO Box 152, Varna 9000, Bulgaria, gasberg@io-bas.bg
[2] Sofia University „St. Kliment Ohridski", Sofia 1504, Bulgaria, evarmarinovska@gmail.com

Key words: gas hydrates, methane, resources, Black Sea

Abstract: The Black Sea is among the most promising areas for the formation of significant gas hydrate deposits due to the low salinity of the waters, a powerful sedimentary complex and extensive deep-sea buried paleodeltas. The new data and results of complex geophysical and geochemical studies within the framework of European and national projects are the basis for a new resource assessment of gas hydrates in the Black Sea. Considered one of the most suitable for exploitation in Europe, the Bulgarian gas hydrate field is located in the region of the deep-water border with Romania. The new resource assessment of gas hydrates in the Black Sea with a focus on the Bulgarian sector, as well as on basic parameters of the deposits such as area, volume, pressure, temperature, porosity saturation with hydrates and free gas, is the result of geophysical research during the last 10 years.

Ресурсна оценка на газхидратни находища в Черно море

Атанас Василев[1], Иван Генов[1], Росица Пехливанова[1], Ева Мариновска[2]

[1] Институт по океанология – Българска Академия на Науките, пк 152, Варна 9000, България, gasberg@io-bas.bg
[2] Софийски университет „Св. Климент Охридски", София 1504, България, evarmarinovska@gmail.com

Ключови думи: газхидрати, метан, ресурси, Черно море