Special Issue

Participation of Gas Hydrate to Form Oil-Gas Deposit in the Seas

Message from the Guest Editor

It is very important to understand what kind geological conditions influence to form gas hydrate and oil–gas deposits in the Oceans and Seas. For example, geological–geophysical complex investigations in the Okhotsk Sea allow us to find special geological structures with methane fluxes, gas hydrate and oil-gas deposits. Gas hydrate in surface sediment in the Okhotsk Sea was found in 17 areas. The regularity of relationships between methane fluxes, gas hydrate and oil-gas deposit are very important. Complex investigations via international cooperation have allowed us to discover methane fluxes, gas hydrate and to find a great deal of regularity to form and to destroy gas hydrate in the Okhotsk Sea. One is the possibility that gas hydrate participates to form oil–gas deposits. Gas hydrate conserves hydrocarbons under high pressure and low temperature conditions and gas hydrate is good cap that close free oil-gas from degassing to assist accumulation of oil-gas deposit. So, methane fluxes, gas hydrate and oil–gas deposits are relationship between each other, and may be used as an indicator to search for oil–gas deposits.

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