

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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