

## Interpretation of gas hydrate in seismic data

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Japan Oil, Gas and Metals National Corporation (JOGMEC), as a member of MH21 Research Consortium, takes charge of a study of the Research for Resources Assessment, and is pursuing a possibility that gas hydrate, which is presumed to be distributed around ocean area of Japan, will be energy resources. As part of the study, 3D seismic survey was conducted from Tokai-oki to Kumano-nada in the eastern Nankai Trough by METI (Ministry of Economy, Trade and Industry) in 2002 under the national program of assessment for gas hydrates as energy resources. As well as 3D seismic survey, drilling program was conducted in this area and information of physical property was acquired. Additionally, velocity analysis and seismic attribute analysis were conducted. It is revealed that gas hydrate zone is correlated to high resistivity and high velocity, and a lot of gas hydrates is confirmed in porous turbidite sands. JOGMEC is conducting analysis of seismic data and is doing detailed interpretation of embedding of gas hydrate compiling information of physical property which was acquired by drilling, result of velocity analysis, result of seismic attribute analysis, result of sequence analysis, and result of seismic facies analysis. This time, we introduce some examples of interpretation of gas hydrate in Tokai-oki area where is located in the eastern part of surveyed area.