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Title: Seismic velocity structure at the gas hydrate reflector- Western Cont Margin of India

Abstract:

Multi-channel seismic (MCS) reflection data from the Western Contin Margin of India (WCMI) have been analyzed for gas hydrate formatio paper describe the experimental processing of MCS lines of WCMI, in we attempted to learn more about the transition to and from a phase which gas is trapped in the form of methane hydrate. The gas hydrat curve in a pressure/temperature regime is typically found in a few hu meters below a deep-water sea floor. The transition is expressed as s Bottom Simulating Reflector (BSR), so named because its structure m that of the sea floor rather than following the local bedding planes. In reflection associated with bedding planes often cross through BSR. In addition to the BSR, we looked for change in seismic interval velocity, amplitude and AVO effects in the neighborhood of BSR. All of these h to glean information about the nature of the gas hydrate, its generati hydrate/free gas transition. The preliminary results presented here pu important constraints on velocity model that predicts the distribution formation of hydrate.

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