



## Gas hydrates over the Egyptian Med. Coastal waters

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Natural gas hydrates occur worldwide in different oceanic environments, especially in areas of onshore and offshore permafrost and in sediments on continental slopes. P-T conditions required to initiate the hydrate formation and to stabilize its structure are encountered along the continental slope of the Nile delta.

Hydrocarbon gases in the Nile Delta are not geochemically homogeneous, originating from the decomposition of organic matter by biochemical and thermal processes.

The structure of the hydrate determines the type of gas molecules contained.

Although Gas hydrates exist over the Egyptian Med. Coastal waters, very little is known on its, origin, quality and quantity.

Several studies had been done by several oil companies in the vicinity of the Egyptian territory.

High concentration in thin, patchy zones just above the BSR may be, destabilized by Tectonic uplift or climate changes.

The seismic profiles taken over the continental slope of the Nile Delta from Damietta to Rashid gave strong evidence of MH with very clear BSR.

Geological and geochemical setting of Gas Hydrate Reservoir in front of the Egyptian Nile Delta need more investigations.