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Description of the relationship between reef growth and shallow marine channel system using different seismic attributes

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Seismic attributes are a helpful tool for the interpretation of faults, fractures, channels, or facies. In the course of a research project it was necessary to delineate a channel system and a reef body. These two features needed to be correlated in a timely manner. This means that we have to determine the time relation of reef growth and channel evolution. Firstly, several seismic attributes are tested on their principal application for delineation of the above described features. These attributes include coherence, curvature, spectral decomposition, and textural attributes based on the grey level co-occurrence matrix. Secondly, we bring the interpreted results into a time relationship in a sequence stratigraphic type of interpretation of the seismic attribute calculation.