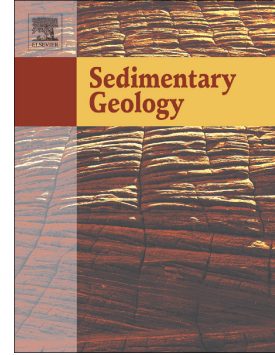


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Detailed Facies Analysis of the Upper Cretaceous Tununk Shale Member, Henry Mountains Region, Utah: Implications for Mudstone Depositional Models in Epicontinental Seas

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**Detailed Facies Analysis of the Upper Cretaceous Tununk
Shale Member, Henry Mountains Region, Utah: Implications
for Mudstone Depositional Models in Epicontinental Seas**

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ABSTRACT

Lower-Middle Turonian strata of the Tununk Shale Member of the greater Mancos Shale were deposited along the western margin of the Cretaceous Western Interior Seaway during the Greenhorn second-order sea level cycle. In order to examine depositional controls on facies development in this mudstone-rich succession, this study delineates temporal and spatial relationships in a process-sedimentologic-based approach. The 3-dimensional expression of mudstone facies associations and their stratal architecture is assessed through a fully integrative physical and biologic characterization as exposed in outcrops in south-central Utah. Sedimentologic characteristics from the millimeter- to kilometer-scale are documented in order to fully address the

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