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Influence of pre-tectonic carbonate facies architecture on deformation patterns of syntectonic turbidites, an example from the central Mexican fold-thrust belt

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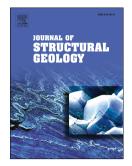
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ACCEPTED MANUSCRIPT

1	Influence of pre-tectonic carbonate facies architecture on deformation patterns of
2	syntectonic turbidites, an example from the central Mexican Fold-Thrust Belt.
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15	Abstract.
16	The Mexican fold-thrust belt in central México excellently exposes relatively well
17	preserved syntectonic deposits that overlay rocks with lateral lithostratigraphic changes
18	across the belt. We consider the deformational effects of these changes by investigating the
19	geometry, kinematics and strain distribution within syntectonic turbidites, which are
20	deposited on top of Albian-Cenomanian shallow and deep water carbonate layers. Field
21	observations and detailed structural analysis at different stratigraphic and structural levels
22	of the Late Cretaceous syntectonic formation are compared with the deformation as a
23	function of lithological and structural variations in the underlying carbonate units, to better
24	understand the effect of these lithostratigraphic variations on deformation, kinematics,

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