

Stratigraphy and Sequential Organization of the Triassic Series of the External Dorsale Calcaire of Bokoya Massif (Internal Rif, Morocco)

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The external Dorsale calcaire constitutes the typical alpine cover of the Alboran Domain. It is characterized in particular by an important Triassic dolomitic series, which may exceed 600 meters in thickness. The stratigraphy and sequential interpretation of these formations are defined on the basis of tectono-sedimentary processes, which controlled their internal architecture. Regional-scale unconformities lead the whole dolomitic succession to be split up into five intervals characterized, each one, by distinct lithostratigraphic formations

These formations start with basal unstable dolarenitic levels exhibiting spaced and irregular stratification. Upwards, the latter structures progressively become dense and planar and determine near the top uniform dolomitic bars with algal laminations.

These two stratigraphic components correspond to well differentiated sedimentary entities, which present a commonly regressive evolution of filling. We respectively define them as sedimentary formations and channelized meso-sequences. Their vertical spreading out is integrated in well defined evolutionary processes characterizing a sequential organization of two orders.

We show in this study that the differentiation of these two kinds of sequences occurred in a subsidence context. The geometry of their deposits is controlled on various scales by extensional normal faults. These structures are organized following an arborescent tectonic systems, induced by deformations in accommodation with sedimentation. They are controlled by a rhythmic tectonic mode during the Triassic time.

Key words: Dorsale Calcaire, Rif, sedimentary subsidence, Triassic, tectono-sedimentary process.