Lithostratigraphy and Provenance of the Syn-Orogenic Terrigenous Deposits of the El Haouz "Dorsale Calcaire" (Northern Internal Rif, Morocco): A Review of Its Tectono-Sedimentary Evolution

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New lithologic and petrographic data are carried out from syn-orogenic terrigenous deposits of the Internal and External Haouz "Dorsale Calcaire" in ordere to detect provenance and to reconstruct their tectono-sedimentary evolution.

Within the Haouz "Dorsale Calcaire" (HDC)° Eocene-Oligocene pelagic and hemipelagic successions are followed by important syn-orogenic terrigenous deposits. Their facies show abundant amount of basement detritus and some wood-debris bearing and also carbonate fraction issued from Ghomarides nappes, their Jurassic-Tertiary cover and from the HDC itself.

The arenites of some syn-orogenic terrigenous sections of the internal HDC probably of Upper Oligocene?, are almost completely represented by carbonate lithic fragments. Whereas those of External HDC of Early Miocene show a low textural maturity with abundant siliciclastic matrix very frequent lithic fragment, mainly represented by epimetamorphites and abundant quartz.

The turbiditic sand flow and related sedimentation could reflect a rejuvenation of accused relieves which enhance earth and erosion processes mainly and subsequently the sedimentation of these syn-orogenic successions that seem to be related to a depositional systems feed by narrow marine canyons incising the structured HDC during the structuration of the internal Domain and mainly its frontal area into « piggyback basins » or « mixed-mode piggy back basins » mainly during Upper Oligocene-Early Miocene.

Key words: "Dorsale Calcaire" , provenance, Lithostratigraphy, piggy-back basins, mixed-mode piggy back basins,