



Crystalline Basement of the Dardania Zone in the Eastern Part of Kosova

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Abstract: The Dardanian zone represents the western part of the Rhodope crystalline basement. This zone was structured and metamorphosed during the Hercynian and post Hercynian tectonic stages. The Dardania and the Rhodope massif are predominately composed of crystalline rocks and are regarded as a continental slope and rise during Jurassic and Cretaceous time. The study of Variscian and Hercynian tectonic phases of deformation is difficult to estimate, because post - Hercynian tectonic phases have deleted them. We can say that we have at least two pre -Jurassic deformation stages. The most visible is the schistosity of the last Hercynian stage marked with the symbol S_1 . In our study are evident the distortions that have affected the entire Dardanian zone, that means the Hercynian basement, as well as the Mesozoic and Cenozoic sediments observed in the east part of Kosova. Thus, D_2 and D_3 refer to successive post - Hercynian stages, while S_2 and S_3 refer to associated schistosity. S_2 is a penetrating schistosity while S_3 represents the crenulation schistosity. The fracture schistosity is also present. A structural analysis of deformation fields was possible especially for S_2 because the field measurements show that the D_2 deformation is strongly homogenous.

Keywords: *Dardania massif, schistosity, crystalline basement, structural analysis.*

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