

Fault Tectonics of the Axial Part of the Ophiolite Belt in Central Mirdita and the Dynamics of the Reverse Faults

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Abstract: In this paper are presented main features of the post ophiolitic fault tectonics and the reverse faults dynamics in the axial part of the Albanian ophiolite belt (Central Mirdita region). Fault tectonics is widespread in Central Mirdita and is represented with remnant of the rift-valley grabens, extensional faults expressed by normal faults, contraction faults expressed by reverse faults and thrust faults, among which the reverse faults of Munella, Kurbneshi and Perlati show particular dynamics. Analyses of the dynamics of the reverse faults is based on the ophiolite pseudostratigraphy, on the stratigraphy of the Tithonian and Cretaceous sedimentary cover, and on the data obtained by geological mapping and ore deposits explorations. The dynamics of the post ophiolitic reverse faults is characterized by three main stages of the relative movements of the hanging flanks: 1. Tithonian stage linked with early post ophiolitic tectogenesis, is characterized by reverse faults, caused by regional contraction conditions, resulted in the uplift of the eastern (hanging) flanks and their erosion. 2. Cretaceous stage linked with regional extension, is characterized by normal faults causing downward move of the eastern (hanging) flanks on which occur sedimentation mainly of the carbonate deposits starting with Berriasian levels in the eastern part of the northern sector of the ophiolite belt. 3. Tertiary (Eocene-Oligocene) late stage, linked with main collision in Albanides, is characterized by uplift of the eastern flanks; the amplitude of displacement based on the thickness of the ophiolite and overlying sedimentary sequences vary from several hundred meters up to 2-3 km.

Keywords: *fault tectonics, post ophiolitic, stages.*

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