

Observations concerning the tectonic structure in the NW section of the Eichenberg-Saalfeld- and the Netra-Eisenach faultzone

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Abstract

Some stone quarries of the Triassic “Lower Muschelkalk” in NW Thuringia allow structural observations in the NW section of the “Eichenberg-Gotha-Saalfeld-faultzone”. This zone is the most important NW-SE striking faultzone running through the Thuringian Syncline. Frequently normal faults are dominant in the graben-structures. Later these faults were partly reactivated as inverse faults and rotated in nearly horizontal position. Dipping, throw and heave of the normal faults are highly variable. At the quarry Köhlerskopf near Röhrda the main fault of the Netra-Eisenach graben-structure is exposed. Normal faults predominate, too. However, a upthrown block of Upper Buntsandstein (Röt Formation), situated in the same level as the “Lower Muschelkalk”, indicates a similar inverse reactivation of the graben flank like in the Eichenberg-Gotha-Saalfeld faultzone.