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Stratigraphy, facies and geological position of the Zechstein and the Triassic in Thuringia

GERD SEIDEL

Abstract

During deposition of Zechstein- and Triassic formations the Southeast Thuringian Marginal Area is proved to be the most pronounced and constant paleogeographical in Thuringia. Evidence of the Thuringian Basin are clearly seen in sections of the Werra- and Stassfurt-Formations, the Middle Buntsandstein, the Middle Muschelkalk and the Lower Gipskeuper-Formations. The Eichsfeld-Swell is of less importance and the Spessart-Ruhla-Swell can rarely be proved. From them partly joining appears between the Thuringian Basin including the Werra-Basin and the Hessian Basin. The depth of Hessian- and Thuringian Basin is sometimes uniform, but partly, it is different. Partially, Thuringia belongs to the sphere of the Hessian Basin, but sometimes, the Southern Lower Saxony and Northern Hesse are influenced by deposition of the Thuringian Basin.