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The stratigraphic position of Sulfates (Salinar-Röt) in the Northern part of the Thuringian Syncline and in adjacent areas

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Abstract

Three small-scale sedimentary cycles including the sulphates 1-3 (Sulfate 1-3) could be determined within the Salinar Röt (Salinarröt), in North Thuringia which were also found in North Hesse, East Hesse, South Lower Saxony and South Saxony Anhalt. The third small cycle correlates with the Myophorien Dolomites (Myophoriendolomite) and the gypsum 3 (Gips 3) deriving from Karsdorf on the Unstrut. It underlies the sandstone slates (Sandsteinschiefer) resp. the Gudensberger sandstone in Hesse. The sulphate lying between the sandstone slates (Sandsteinschiefer) and the double quartzite (Doppelquarzit) was classified as sulphate 4 (Sulfat 4) and the sulphate superposing the double quartzite (Doppelquarzit) as sulphate 5 (Sulfat 5).