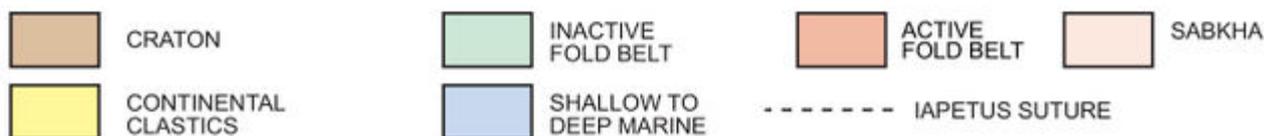
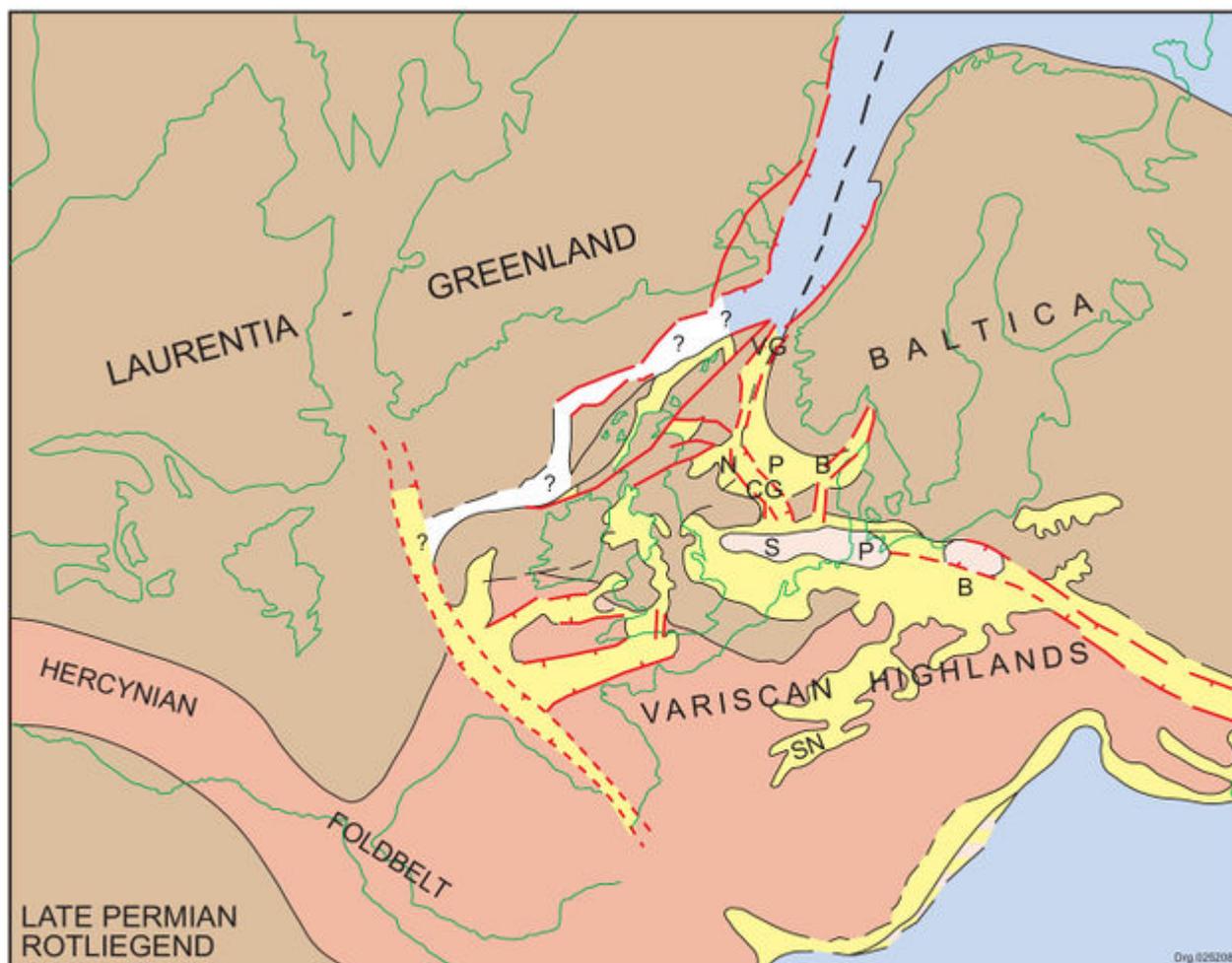


File:YGS CHR 01 REGI FIG 07.jpg

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Summary

description

English: Figure 7 Late Permian, Upper Rotliegend 2 sedimentation began with subsidence of the Southern and Northern Permian basins early in the Late Permian at about 266–264Ma. At about the same time, the Viking–Central Graben system began to form in the northern and central North Sea, probably utilizing the weak Iapetus Suture; graben initiation was associated with volcanic activity, especially in Danish waters. England and the Southern North Sea areas were located in the latitudes equivalent to the southern Sahara; with an arid climate, dune sands migrated under the influence of northeast tradewinds. The axis of the Southern Permian Basin subsided more rapidly than sediment infill, so the central basin floor intersected with the regional water table to form a sabkha and a shallow lake, in which bedded halites were deposited some 200–300m below global sea level. Rising sea level between Norway and Greenland caused flooding of the two main Permian basins via the Viking and Central grabens and the succeeding deposition of the cyclic Zechstein carbonates and evaporites. The latter, especially its thick sequences of halite, were to form almost perfect seals for the Carboniferous gas that later filled Rotliegend reservoirs. Modified from Ziegler (1987).

From: [Carboniferous hydrocarbon resources: the southern North Sea and surrounding onshore areas](#), edited by J. D. Collinson, D. J. Evans, D. W. Holliday, N. S. Jones. Published as volume 7 in the Occasional Publications series of the [Yorkshire Geological Society](#), © Yorkshire Geological Society 2005.

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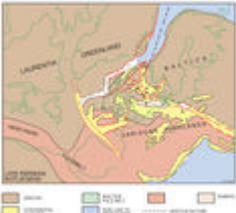
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