

File:YGS CHR 05 FLUV TAB 05.jpg

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Cycle order	Thickness	Description	Cause
1	Hundreds of metres	Large-scale upwards-fining succession, with coarse-grained multi-storey channel sands at base and mudstone prone tops.	?Orogenic/tectonic cycle in the hinterland – likely source in the east (?Baltica region) – a Caledonide zone formed by collision between Eastern Avalonia and Laurussia into Baltica.
2	Typically 120–200 m	Upwards-fining cycles, characterized by thick, stacked, coarse-grained channels at base and multiple coal-palaeosol horizons at the top. Typically contain 2–3 smaller-scale upwards-fining third-order cycles; each successive third-order cycle containing less sand.	Hinterland tectonic pulses, e.g. movement along the Tornquist–Teisseyre or Rynkøbing Fyn High Zone. Produces large pulses of sediment flux.
3	40–60 m	Upwards-fining successions, characterized by thick, stacked, coarse-grained low-sinuosity channels at base passing upwards into meandering channel systems, lacustrine muds and poorly drained palaeosols and coals.	?Tectonically driven source area climatic fluctuations resulting in variations in the amount of precipitation. This affects sediment flux and base level in the basin.

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Summary

description	English: Table 5 Main characteristics of the different scales of cyclicity recognized in the Upper Carboniferous of northern Germany. 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 , Copyright Yorkshire Geological Society 2005.
source	Yorkshire Geological Society
author	Neil S. Jones and Brian W. Glover

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