

NEOPROTEROZOIC SUPRACRUSTAL SEQUENCES OF THE EASTERN AND NORTHERN EDGES OF THE RUSSIAN PLATFORM AND THE URALS: a comparison

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Early and Middle Riphean (1.65-1.0Ga). During the Early Riphean in the Volga-Urals region (VUR) was formed shallow sedimentary intracratonic basin. Its lowermost levels were represented by the silicoclastic sublittoral, littoral and subterrestrial deposits, whereas middle and upper levels combine shallow and moderately deep marine silicoclastic and carbonate sediments. The Middle Riphean deposits combine silicoclastic shallow marine and subterrestrial deposits on the western zone of the basin, whereas for its eastern parts shallow marine carbonate rocks are more characteristic. In the Timan-Pechora Region (TPR) during this time probably in were formed mainly silicoclastic shallow marine deposits. On the Kola peninsular the Lower and Middle Riphean deposits were formed in small riftogenous intracratonic basins. All sedimentary sequences on the territory under review were formed probably in isolated basins.

Late Riphean (1.0-0.65Ga). The Late Riphean sequences of the VUR are represented in ascending order by alluvial sandstones and conglomerates and in more higher levels - shallow marine silicoclastic rocks with glauconite and carbonate deposits. On the Middle and North Urals it are represented predominantly terrigenous shallow marine deposits. In the (TPR) for this period two principal zones of sedimentation were reconstructed - shelf basin with the shallow marine sedimentation on the west and continental slope one on the east. On the Kola peninsular all sequences had pericratonic character. During this period two principally different types of the sedimentary basins were contacted here: shelf basin on the south-west and turbidite continental slope basin on the north-east. So, at the beginning of the Late Riphean the great pericratonic sedimentary basin was formed on the eastern, north-eastern and north parts of the Russian platform.