

EVOLUTION OF AN EARLY CENOZOIC LITHOGENESIS IN A PRIBAIKALIE AND BAIKAL RIFT ZONE

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In an early Cenozoic (the Paleocene-early Pliocene) of a Pribaikalie and Baikal rift zone (BRZ) is distinguished two lithostratigraphic complexes in a rank of formations of a humid and semihumid climate with specific conditions of a weathering, lithogenesis and various parageneses of clay minerals. The most ancient stage of a cenozoic weathering is connected to a late Cretaceous - early Cenozoic and in a number of cases has latent character. Eluvium formations of premaxist epoch - kaolin type. Sediments, connected with them of lacustrine, talus, alluvium facies - monomict frequently it is essential of a clay composition. Late Paleocene a weathering crust of a kaolin-lateritic type. The sedimentary Eocene-Oligocene formation of a humid climate is submitted in main sediments of lacustrine and marsh facies with a sharp dominance of quartz in a light fraction and minerals, stable against a weathering in heavy fraction, the role of the clays in sections is essential. The clay minerals in a Paleogene - neogenic a sediments of a Pribaikalie play a role of a stratigraphic reference mark (kaolinitic composition clay components in a sediments of a Paleogene and polymineral with a dominance of a smectite in a Miocene and hydromicas in a Pliocene). The weathering crusts of a montmorillonitic type are connected to a late Oligocene. The coal-bearing polymictic formation of a semihumid climate (Miocene - early Pliocene) consists of a sandy-aleurolite-clayey sediments lacustrine, lacustrine-marsh, talus-proluvium and alluvium facies. BRZ was arena of a development of several phases of a basalt magmatism (from the upper Cretaceous up to Holocene), influencing on scale of epigenetic processes in a sedimentary strata. The epigenesis also was inspected by gleyish processes and thermal waters. Characteristic feature of a cenozoic lithogenesis in BRZ is the low-temperature hydrothermal metasomatism. Modern and paleometasomatites, and also the formations a modern hydroterm have specific features.