

OLDEST KAINOTYPE TRAPPEAN ASSOCIATION

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Rocks of oldest (Mesoproterozoic, with age 1.96-2.06 Ga) kainotype trappean association were established on the South of the East-European platform, where they cover an area of 290 000 sq.km. This area includes three large regions, which are separated by paleorift system: 1. Northwest part of the Ukrainian shield in Ukraine; trapps represented by numerous dykes of olivine and non-olivine dolerite, subalkaline olivine gabbro and sill-like intrusion and layered intrusion. Here discovered Cu-Ni sulphide mineralization; 2. Voronezh crystalline massif in Russia, where remained full set of facies - flows, dykes and layered intrusions. Last interesting by their Ti ores; 3. Mikashevichsko-Zhitkovichskiy horst in Belarus, where trapps represented by dykes of olivine dolerite. Clear zonality is determined - most magnesian trapps develop on the outermost north of area: in Belarus and north region of the Northwest part of the Ukrainian shield. At south and southeast region of the Northwest part of the Ukrainian shield and further in Voronezh crystalline massif this rocks changes into low-Mg and moderate-Ti trapps. Trappean association in this part of the East-European platform appears at the Paleo-Mesoproterozoic boundary just after completion of metamorphic and orogenic processes and marks beginning of platform regime. From those time began to accumulate platform sediment cover, relics of which remained among rocks of gabbro-anorthosite rapakivi Korosten pluton (Northwest part of the Ukrainian shield). It is interesting that in Neoproterozoic (0.6-0.65 Ga) on the west of this area appear new young trappean association.