

Early Precambrian stratigraphy of the East European platform

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The Early Precambrian stratigraphy of the East European platform is based predominantly on the regional scales of the Baltic and Ukrainian Shields and only in small part on the sections of the Precambrian basement Belarus and Voronez massifs and Volga-Ural region. We do not have the unanimous correlation stratigraphic scheme for the Early Precambrian of all platform because the geologist from every of these terranes are using different stratigraphic scales.

On the Baltic Shield Archean is subdivided into Early and Late Eons with boundary between them 3150 Ma; the greenstone belts of this region were formed in Late Archean. The Archean-Proterozoic boundary have the age 2500 Ma; Proterozoic of the Baltic Shield also subdivided into two Eons with boundary 1650 Ma; this is the age of the early group rapakivi granites, which are concluded svecofennian cycle.

On the Ukrainian Shield Archean and Proterozoic are subdivided into three Eons everyone with boundaries between them 3400, 3200, 2600, 2000 and 1700 Ma. The greenstone belts were formed here in Meedle and Late Archean and anorthosite-rapakivi granite magmatism was related to 1800-1700 Ma.

The identical formations demonstrated a northward younging within the whole platform and westward within the Baltic Shield. This indicate on the gradual lateral accretion and consolidation of the Precambrian crust.