

Evidence of Soil-Forming Processes in the Early Proterozoic by the Example of Livvian Deposits (Karelia)

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Abstract.—The paper deals with the fossil cyanobacterial films from the Lower Proterozoic (Livvian) shungite in Karelia, Russia. The films were previously described as a formal species *Cyathodes nigosericea* Makarikhin. They were formed by bacteria and possibly by fungi, which inhabited the littoral or supralittoral (the tidal zone). These organisms were adapted to the existence in temporally (possibly, long-lasting) dry conditions, which is proved by the development of dense coatings protecting their bodies from dehydration. This basically bacterial community influenced intensely the mineral substrate, changed its structure, and enriched it with biogenic constituents, thus forming an archaic soil microprofile. The research revealed the following signs of ancient soil formation: surface transformation of the mineral substrate texture by the vital activity of terrestrial organisms (bacteria, fungi) with the formation of a specific cellular topographic pattern.; changes in the internal structure of the substrate and the appearance of wedge-shaped fracture casts in the underlying matrix; redistribution of inorganic compounds during the formation of a paleosurface microprofile (the increasing content of silicon oxide in the upper part with a simultaneous reduction in the amount of iron oxides).

Keywords: Paleosols, Precambrian, Proterozoic, Fennoscandia, bacteria, shungite, FPS-profiles

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INTRODUCTION

Intensive study of pre-Cenozoic paleosols in various regions of the world led to the discovery of not only Early Paleozoic (in particular, Ordovician [19, 24, 28, 30] paleosols but also paleosol profiles preserved in Precambrian deposits [26]. In some cases, probable remains of terrestrial plants were found together with Ordovician paleosols [12, 13, 24].

As Retallack rightly noted [25, 27, 29], paleosols contain the richest potential for reconstructing terrestrial paleogeographic and paleoclimatic settings that existed in the distant geological past, up to 3 Ga ago and earlier (the discovery of MesoArchean paleosols of about 3100 Ma old was reported [26]). It is important to remember that some indicators widely used in modern soil description (e.g., the color of genetic horizons, the clay content, the presence and nature of slickensides) can be used in paleosol science with great caution. However, analytical data, in particular, geochemical characteristics of the supposed genetic horizons, as well as the composition of the microbiomorph assemblages characterizing a paleosol profile, are necessary for the study of any paleosol, from Pleistocene to deep Precambrian. These data allow us to approach the reconstruction of soil forming factors that operated during the paleosol profile development [23].

Many researchers noted the presence of paleosols in Precambrian deposits. For example, in the base of the Elliot Lake group, about 2.45 Ga old, exposed to the north of Lake Huron, Canada, granites were discovered that were clearly altered in aerial conditions in the Early Proterozoic [17, 20, 31] as discussed in [25]. The Denison paleosol of more than 2.3 Ga old found in the same region [22] (discussion in [26]), was formed in originally terrigenous deposits transformed by deep metamorphism. There are indications that bacterial communities affected the substrate in terrestrial environments already in the Archean era, i.e., about 3.5 Ga ago [14].

Early Proterozoic paleosols are described in sediments 2.7–2.6 Ga old in the South Africa [33, 34]. Early Proterozoic Vertisol of 2.2 Ga was discovered in the eastern India [16]. A comprehensive analytical review of Precambrian and Early Paleozoic paleosols is given in [11].

The presence of fossil microbiota in the aerial and subaerial complexes of the Early Proterozoic in Karelia has been noted in several publications (e.g., [4]). Microorganisms were detected in paleosols described as “weathering crusts” formed on destruction products (mainly biogenic, in the author’s opinion; see more below) of igneous rocks (mainly plagiogranites and granites) of the Okhta series 2.8 Ga old [4, p. 13].

Pochvennobiologicheskie Protseby V Osushennykh Lesakh Karelii Biological Soil Processes In Drained Forests Of Karelia

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