

EARTH OUTGASING, CHEMICAL MUTAGENESIS AND MACROEVOLUTION.

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Phenomena of agreements between: 1) geochronological levels of aromorphoses appearances and black shales (with abnormally high contents of uranium, etc.) at the main stratigraphic boundaries; 2) main taxons origin (settling) centres and riftogenic "three-rays joints" (centres of long-term endogenic activity). According to well-known conception by Neruchev (1982, 1988), environmental crises and appearance of new animals and plants are caused by dramatic increasings of mutation process rates during the "black shales epochs" owing to uranium radioactivity. He invokes the same explanation for above-mentioned centres coincidence (and anthropogenesis centres among them). But such macroevolutional doctrine does not stand up owing to destructive role of radioactive mutagenesis. Unquestionable connection between evolutionary leaps and "black shales epochs" calls for an alternative interpretation. The paper is devoted to the whys and wherefores of the directional chemical mutagenesis connected with the epochs of Earth outgasing intensification (the role of cold-with temperatures up 500°C - amagmatic outgasing with reduced character of geofluids is must be emphasised). "Engaging" of intensive directional chemical mutagenesis (with transductions and other attendant factors during certain moments of geological history was the powerful impetus of the evolution processes acceleration. This is a plausible explanation of multiform manifestations of genetic homology (homologous series of Kopp, Vaviloff, etc.), "rocket" character of macroevolution and its other main features that are incompatible with comprehension of development doctrine as the result of random mutations natural selection.