High-resolution magneto-climatostratigraphy for MIS 19 loess-paleosol layer in Paks, Hungary

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Detailed paleomagnetic and rockmagnetic investigations of the Paks loess/paleosol succession in Hungary revised the stratigraphic position of the Matuyama Brunhes Transition (MBT). The first deflections of the virtual geomagnetic pole (VGP) during the precursor phase of the MBT occurs in a well-developed soil horizon. The transit phase of MBT is situated in the upper and transient horizon of the soil mentioned above, and the overlaying loess layer. The transit period is followed by the rebound phase, characterized by instable magnetic field.

The new paleomagnetic results provided evidences for a new detailed terrestrial MIS19 chronostratigraphy in loess, including MIS19.3, 19.2 and 19.1 and revealed a possible link between various terrestrial and marine records from the Atlantic and Pacific area also.

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