

Late pleistocene variations of Earth's magnetic field recorded in cover sandy loams from Central Kamchatkan depression

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Cover sandy loams or loess-like deposits were paleomagnetically studied in Central Kamchatkan depression. Sampling took place in Kamchatka-river erosion of Polovinka dene (158°55'40"E, 54°54'40"N). Due to radiocarbon dating age of deposits was determined in 30–50 kyr and an average sedimentation rate was calculated in 2 mm/yr. 457 orientated samples were collected across the section after 10 cm. Resultant paleomagnetic angular records were compared with ones from well-known Kargapolovo section, located on the same latitude and trough 77° wester. Shapes of D and I curves were like to each other on the considerable part of records. The same were for shapes of loops on the stereograms. Such result is in good agreement with the hypothesis of drifting nondipole sources as a cause of PSV. No geomagnetic excursions was indicated on Polovinka records.