

D23 DEVELOPMENT OF BLACK EARTH AND PSEUDO-FLUVIAL PEBBLES
IN WET HIGHLAND PLATEAUX OF SRI LANKA

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The development of a thick horizon of Black Earth and a unique occurrence of pseudo-fluvial pebbles are reported from weathering profiles of Horton Plains which form a highland plateau in central Sri Lanka.

Organic matter necessary for the formation of the Black Earth horizon has originated invariably from the relicts of grasslands and not from mossy forests. The formation of Black Earth seems to be promoted by a combination of geological, climatic and botanical factors.

Garnet pebble bed is present when the garnetiferous gneisses are jointed or gently dipping under conditions favourable for lateral and vertical percolation of ground water. Geological structural and hydrological conditions play a principal role in the formation of the garnet pebble horizon.

References

1. De Rosayro, R.A. (1945) The montane grasslands of Ceylon. Tropical Agriculturist 101
206 - 216
2. Møller - Dorbois, D. and Perera, M. (1971) Ecological differentiation and soil fungal distribution in the montane grasslands of Ceylon. Cey. J. Sc. 9 1 - 41