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The paper deals with important mineral-micromorphological features of selected weathering and soil materials developed mainly directly from outcropping granitic and metamorphic rocks within the higher located areas of the cordillera between 500 and 1600 m a. s. l. The materials indicating marked influences of tropical paleoclimates are presented in the following order: kaolinitic yellowish coloured saprolites of high depth, homogenized products of saprolites (non-rubefied and rubefied), plinthitized saprolites and their derivatives, plinthitic cuirasses.