



## **Clay mineral composition of different horizons of soils derived from tonalites at Sudety Mts., Poland**

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Tonalite, due to very little area of its occurrence on the Earth surface, is one of the igneous rocks that have been studied only occasionally. Especially, there are very few papers dealing with weathering processes and formation of clay minerals in soils derived from that parent rock. The aim of this work was to determine composition of clay minerals formed in soil profiles developed from tonalites located in Sudety Mts., and to find to what extent soil-forming processes effect composition of mineral colloids derived during weathering processes. The objects of the investigation were shallow cambic soils located at upper parts of the hills formed from tonalite batholith in Sudety Mts., SW Poland. Soil samples taken from different genetic horizons were dispersed in distilled water, then clay fraction was obtained by separation with centrifuge. No additional treatment were conducted, with an exception of saturation with glycol and heating at the temperature of 550 °C. X-ray diffractograms of soil horizons from humus horizon through parent material will be presented at the poster.