

Paleomagnetic study of lower Pleistocene volcanic rocks around the Suwa basin, Nagano Prefecture, central Japan

Tetsuo Miwa[1], Hiroyuki Hoshi[2]

[1] Graduate School of Educ., Aichi Univ. Educ., [2] Dept. Environmental Earth Sci., Aichi Univ. Educ.

We measured remanent magnetizations in lower Pleistocene volcanic rocks (Enrei Formation) around the Suwa basin, Nagano Prefecture. Samples were collected at 26 sites. A formation-mean direction was $D = -7.9$, $I = 50.1$, $\alpha_{95} = 8.1$, $N = 25$. A R-N-R polarity sequence was established for this formation. Based on magnetostratigraphic correlation and an available K-Ar date, the age of this formation ranges between 1.5 and 0.8 Ma. The observed declination is not distinguished from the N-S axis, and the observed inclination is also indistinguishable from the expected value, indicating little vertical-axis rotation as well as poleward translation since the early Quaternary.