

Correlation of widespread tephra Ng-1 and Takayama Pumice by EPMA analysis of major element for titanomagnetite

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The Ng-1 and the APms are middle Pleistocene time-markers and widespread tephra layers derived from volcanoes in the Hida Mountains. But there is a scarcity of information of the eruption style of these. On the other hand, the Takayama pumice (Tky) is distributed near the Hida Mountains.

The purpose of this study is to investigate in detail about Tky, and to prove the stratigraphical relationship with Tky and Ng-1 and APms.

This study presents the followings. Tky is correlated with Ng-1 from two evidences: 1. Tky and Ng-1 erupted from the southwest of the Hida Mountains and have the same dispersal axis toward the southwest. 2. Tky is almost same as Ng-1, in mineral composition, the refractive indices of the glass, opx and ho, and chemical composition of titanomagnetite.