

Origin of the granitic clasts from the Mandano Formation in the Kazusa Group, middle Boso Peninsula

Eri Tobe[1], Hideo Takagi[2], Tetsumaru Itaya[3], Toshinori Okada[4]

[1] Science and Engineering, Waseda Univ., [2] Earth Sci., Waseda Univ., [3] Res. Inst. Nat. Sci., Okayama Univ. of Sci., [4] Hiruzen Institute

Significance of mylonitic granitic clasts from the Mandano Formation intercalated in the lower Kasamori Formation, middle Boso Peninsula are described. Granitic clasts are leucocratic garnet-bearing two mica granite (adamellite). Whole rock chemical composition of the granitic clasts indicates that they are island arc I-type granite. K-Ar muscovite age is 93.8 ± 2.1 Ma, and biotite age is 88.8 ± 2.0 Ma.

These ages and chemical composition suggests correlation of granitic clasts from the Mandano Formation with granitic rocks around the Tanakura Tectonic Line. That contradicts paleocurrent data (NE) of the Mandano Formation, however, it is possible that these granitic clasts from the Mandano Formation were reworked from the Miura Group.