

Detrital chromian spinels from the Tertiary around the Akaishi Mountains, central Japan

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The ophiolitic rocks, composed of serpentinite, gabbro, basalt and so on, are distributed from the Setogawa Belt in the southern part of the Akaishi Mountains to the Mineoka Belt in the southern part of the Boso Peninsula. These are considered to be very important in order to interpret the tectonics around the Boso triple junction. Although there are several tectonic models based on the chemistry and age of these ophiolitic rocks, there are few studies about detritus supplied from these rocks and about the timing of emplacement of these rocks. We discuss the tectonics around this area mainly based on the chemistry of detrital chromian spinels derived from Eocene to Middle Miocene in and around the Akaishi Mountains. The Eocene to Oligocene Mikura Group, early to middle Early Miocene Setogawa Group, late Early Miocene Kurami Group and latest Early Miocene to early Middle Miocene Koma Group are dealt for this study. Detrital chromian spinels are collected from all of these groups, and the characteristics of chemistries of detrital chromian spinels are different among these groups.