

Rapid uplifting of the northern part of Hida Mountain Range at 1 Ma, based on lithofacies and petrography in the Iyari Formation.

Teruki Oikawa[1], Takeyuki Ueki[2], Hajime Wada[3]

[1] Environmental System Science, Shinshu Univ, [2] Geogr. Sci., Tokyo Metropolitan Univ., [3] Environmental System Sci., Shinshu Univ.

The Iyari Formation, unconformably overlaying the Omine Formation (- 1.65Ma), is distributed in surrounding zone of the east-side of the Hida Mountain Range. Geomagnetic polarity of the Iyari Formation is comparable with the Matsuyama Chron(- 0.78Ma). Therefore, depositional age of the Iyari Formation is between 1.65Ma and 0.78Ma. Based on the petrographic method, a fine-grained biotite-granite in the Iyari Formation are comparable with the Kurobegawa Granitic Pluton (Harayama et al., 2000; Wada et al., 1998) at the northern Hida Mountain Range. Obtained ages of the Kurobegawa Granitic Pluton are 1.9 ± 0.9 Ma (zircon FT age: Yamada and Harayama, 1999) and $1.0 \pm 0.3 - 1.20 \pm 0.29$ Ma (biotite K-Ar age: Ogata et al., 1983; Uchiumi et al., 1995). The age of the Iyari Formation and the ages of the Kurobegawa Granitic Pluton are almost simultaneously. It is considered that the northern Hida Mountain Range was rapidly uplifting in 1.3-0.78Ma.