

Diatom 27: 17-32 (和文)

河邑圭太・須藤 齋・柳沢幸夫：岐阜県瑞浪地域中部中新統生俵層の珪藻化石年代層序

Keita Kawamura, Itsuki Suto and Yukio Yanagisawa: Diatom biostratigraphy of the middle Miocene Oidawara Formation in the Mizunami area, Gifu Prefecture, central Japan

#### **Abstract**

We examined fossil diatoms in the middle Miocene Oidawara Formation distributed in Mizunami City, Gifu Prefecture, central Japan, to determine the precise sedimentation age. Well preserved fossil marine diatoms with high diversity have been found in the diatomaceous mudstone of the Oidawara Formation. The diatom assemblage of the formation can be assigned to the short interval between diatom biohorizons D41 (the last occurrence of *Denticulopsis praelauta*, 15.8 Ma) and the first occurrence of *Actinocyclus ingens* f. *nodus* (15.7 Ma) in the diatom zone NPD 4A (*Denticulopsis lauta* Zone) of the Neogene North Pacific diatom zonation. As a result, the sedimentation age of the Oidawara Formation was determined to be between 15.8 and 15.7 Ma. Reversed magnetic polarity reported from the Oidawara Formation corresponds to chron C5Br.

**Key index words:** biostratigraphy, fossil, middle Miocene, Mizunami, Oidawara Formation