

## The process of formation of the pressure ridge in Wakamiya, Hujimi town, Nagano Prefecture

# Yoshimasa Arai [1], Toshifumi Imaizumi [2], Kazuomi Hirakawa [3], Hiroshi Sato [1]

[1] ERI, Univ. Tokyo, [2] Education and Human Sci., Yamanashi Univ., [3] Environmental Earth Sci., Hokkaido Univ.

<http://mc-net.jtbcom.co.jp/earth99/>

At the middle portion of the Itoigawa-Shizuoka Tectonic Line, two lines of bulges (pressure ridges) are formed, trending parallel to the faults. The internal structure and sedimentary facies of the western tectonic bulge were examined to reveal the geologic processes of forming bulge in Wakamiya, Hujimi town, Nagano Prefecture. The tectonic bulge forms anticline and its western flank is displaced by some faults with low angle striations. Together with these features, this bulge shows a positive flower structure, formed by left-lateral faulting. The clast composition and sedimentary facies demonstrates that the formation of western tectonic bulge is later than eastern. Judging from the deformation of volcanic ash (Pm-I), the Wakamiya tectonic bulge was formed since 100,000yr.BP.