

## High-precision age estimation of Holocene tephrochronology in Japan

# Koji Okumura [1], Shigeru Shimada [2], Takehiko Suzuki [3], Takaaki Fukuoka [4], Hiroshi Machida [5], Takumi Mitsutani [6]

[1] Dept. of Geography, Hiroshima Univ., [2] Dept. of Geography, Meiji Univ., [3] Dept. of Geography, Tokyo Metropolitan Univ., [4] Rissho Univ., [5] none, [6] Nara National Cultural Properties Research Institute

<http://www.ipc.hiroshima-u.ac.jp/~kojiok>

High-precision dating for Holocene tephra in Japan, using radiocarbon dating and tree-ring counting is introduced to refine the chronology. Kawago-tephra in central Japan and Baegdusan-Tomakomai tephra were dated. For Kawago-tephra, 5 high-precision gas-counter dating and thier wiggle matching gave its date of 3126 to 3145 cal. yr. BP in 2 sigma range. For Baegdusan-Tomakomai tephra, 3 AMS dates and 1 gas-counter date gave 820 to 895 AD in 2 sigma range.