On the subdivision of Tachikawa terrace along the Tama River, west of Tokyo

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The Tama River has well-developed fluvial terraces formed during the Late Pleistocene. They are classified into several surfaces by the differences in relative height above the river floor and their tephra-cover. In particular, the Tachikawa terrace is divided into Tc1, Tc2 and Tc3 surfaces. The Tc1 surface corresponds to MIS 3, and Tc2 and Tc3 surfaces correspond to MIS 2 respectively. However the border of Tc1 and Tc2 is not clear on the surface, and they look like geographically continued. To subdivide Tc1 and Tc2 surfaces, we used following features. The tephra layer covers Tc1 surface is generally thick (about 2.5-3 m) and contains AT tephra, while it is generally thin (about 2m) and does not contain AT tephra on the Tc2 surface. This study reexamined Tc1 and Tc2 surfaces with thickness of tephra layer and existence of AT tephra, in the area from Tachikawa to Choufu using a hand-auger and boring logs. As a result, the Tc1 surface was recognized in wider area in Tachikawa city.