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# Plant fossil assemblages of the Last Glacial Maximum at Nakazato, northern Kanto region

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Valley-fill deposits were cropped out at Nakazato site, NW of Utsunomiya city, northern Kanto region. Peat and tephra deposits filled the valley, and the peat deposits are overlane by Shichihonzakura and Imaichi tephras of 13˜14 ka. Around the middle horizon of the thick peat, Ogawa Scoria is intercalated, which was derived from Nikko volcanoes a little after AT(29 ka). Therfore this peat is inferred to have piled up in LGM. There are very few studies of plant fossil assemblages in LGM not only in the northern Kanto but also whole Kanto region. Therefore, reconstruction of vegetation based on pollen analysis and plant macrofossil research at Nakazato site is very significant.

The plant macrofossil assemblages showed a typical assemblage in the last glacial as *Picea*, *Tsuga*, *Abies* includes *Abies veitchii* and *Betula*. *Picea* and *Betula* fossil pollen were detected abundantly from the peat horizon overlying Ogawa Scoria.

The reconstructed vegetation in LGM at Nakazato site is discussed in comparison with the plant fossil assemblages and paleoenvironments in LGM from other sites in Kanto and the middle part of Honshu.

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Keywords: pollen analysis, plant macrofossil, The Last Glacial Maximum, northern Kanto region