

Delivery lecture for elementary school students with hand auger boring

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In order to awareness building of earth and environment science for elementary school students, we conducted outdoor practices as a delivery lecture at a Buddhist temple on the Toshima upland (the Musashino I surface), Tokyo. The first lecture in the summer of 2012 was unsuccessful due to miss allocation of time and excessive schedule of study topic with indoor lecture. Even an auger boring using handy soil corer(hand auger LS-3 series, Sanyo testing machines Co. ltd.) took 3 hours, despite that the work was carried out by four adults. In the aftermath, the students could not advance sample treatment and description works, and finding ground water.

In the summer of 2013, the schedule focused on the boring, sample treatment and measurement. As a result, students experienced the following subject; boring work in 4 meters in depth, sample description, measurement of soil color and temperature, verification of ground water. The answers of the questionnaire after the lecture shows the students amazed a variety of characteristics of geology and environmental study and long history of the earth which were recorded at under their foot. We are planning further lecture and boring at the temple in next year.

Keywords: earth science education, summer homework, core description, the Kanto loam, soil temperature, ground water