

## Soil respiration measurements in managed and unmanaged deciduous forests in central Japan

Guochao Wang<sup>1</sup>, \*Tomotsugu Yazaki<sup>1</sup>

1. School of Agriculture, Meiji University

Vegetation management of deciduous broad-leaved forests near the human settlement supports conservation of good living environment and biodiversity. However, effects of such managements on the carbon balance of forests (especially the forest floor) and functions of greenhouse-gases absorption are unclear. We aim to obtain the knowledge about the relation of vegetation management and CO<sub>2</sub> (greenhouse gas) absorption function of deciduous broad-leaved forests. Vegetation managements contain undergrowth trimming, thinning, and removal accumulated leaf litter. Here, we examined the influence undergrowth trimming on soil respiration in a managed deciduous broad-leaved forest in central Japan.

Keywords: satoyama management, deciduous forest, carbon balance