

HHyARC Seminar (HyARC Seminar#176)

Date: July 30 (Wednesday) 13:30-

Room: The seminar room (#606) of Research Institutes Building.

Speaker: Dr. Yoshinori Shinohara (Faculty of Agriculture, Kyushu University)

Title: Moso-bamboo forests in Japan: what are the effects of their area expansion on evapotranspiration?

Abstract:

Recently, moso-bamboo (*Phyllostachys pubescens*) forests have been expanding in western Japan. Some researches pointed out their expansion could decrease water resources. However, only a few studies examined evapotranspiration in moso-bamboo forests. Evapotranspiration is strongly related to water resources.

I and my colleagues measured two major components of evapotranspiration such as canopy interception loss and transpiration in moso-bamboo forests. These values were compared with those in other forest types. Canopy interception loss in moso-bamboo forests was smaller than that in other forest types. On the other hand, transpiration in moso-bamboo forests was larger than that in other forest types. Therefore, the sum of canopy interception loss and transpiration (i.e., evapotranspiration) in moso-bamboo forests was comparable to that in other forest types, suggesting expansion of moso-bamboo forests would not decrease water resources.

(given in English)