

Do. / Thu. 12 st
Gebäude/Building
GEO
Hörsaal/Lecture hall
H6

Wintersemester / Winter Term 2014/15

BayCEER Kolloquium

Vortragsreihe Ökologie und Umweltforschung

Lecture series in Ecology and Environmental Research

Donnerstag 9. 10. 2014, 12:00 Uhr, H6

Anschließend Postkolloquium mit Mittagsimbiss im Foyer H6

Prof. Hiroyuki Muraoka

Institute for Basin Ecosystem Studies,
Gifu University, Japan

Open-field warming experiments in a mature deciduous broadleaf forest at Takayama, Japan

Die Vortragsreihe
ist eine
interdisziplinäre
Plattform zur
Information und
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The lecture series
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and senior
scientists.

Guests
are cordially
invited!

Prediction of the changes in carbon balance in forest ecosystems under climate change is one of the urgent and challenging researches in environmental sciences. To achieve better prediction of the possible impacts of the global warming on forest carbon balance, ecophysiological understandings on photosynthetic carbon gain and respiratory carbon release should be gained. In a cool-temperate deciduous broadleaf forest in 'Takayama' site (AsiaFlux, JaLTER), located on a mountainous landscape in central Japan, multidisciplinary research on forest carbon balance is taking place, including micrometeorological measurements of CO₂ flux, ecological processes of tree growth and soil carbon sequestration, leaf ecophysiological research on canopy photosynthesis and phenology, their integration by model analysis, and in situ and satellite remote sensing of canopy photosynthetic productivity by combining canopy ecophysiological and optical measurements. In this talk results of an open-field warming experiment for foliage on a canopy tree species and for soil are presented.