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## Poster Session 2 – Conservation and Ecosystem Services

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### 95 Coarse woody debris in home ranges of bank vole *Myodes glareolus*

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The role of coarse woody debris in the functioning of small mammal populations of the order *Rodentia* has already been rather well examined in north America, but still requires research in Europe. As coarse woody debris in different stages of decomposition perform an important role in the functioning of ecosystems and constitute a significant and often indispensable component of habitats for many species of small mammals, an attempt was made to analyse the way of area usage within the context of the habitat's local heterogeneity, with particular consideration of coarse woody debris. In August 2017, pilot telemetry studies were performed on 6 individuals of bank vole *Myodes glareolus* (1 male, 5 females) in the commercial forest stands of the Białowieża Forest. Within the 1-hectare research area and within the borders of home ranges extending beyond the designated area, a detailed inventory of both standing and lying coarse wood debris was made. The collected data about coarse wood debris were mapped together with the home ranges of the examined bank vole individuals. The size of the areas determined for each individuals was between 214 and 589 m<sup>2</sup> for females and 2,276 m<sup>2</sup> for the males (areas determined with the Core Convex Polygon method, TRACKER 1.0). It was noticeable that among the total number of bearings for each of the individuals, the situations in which the animal was directly on, beneath or inside coarse woody debris – stump, log or branch pile – constitute a relatively high proportion (between 38% and 64.8% of all collected bearings). This research is an introduction to a project concerning the role of coarse woody debris in shaping the species diversity, population factors and in the usage of forest complexes by small mammals *Micromammalia*.

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# Julius-Kühn-Archiv

Jens Jacob, Jana Eccard (Editors)

6<sup>th</sup> International Conference of Rodent  
Biology and Management  
and  
16<sup>th</sup> Rodens et Spatium

Potsdam, Germany, 3-7 September 2018

Book of Abstracts



Julius Kühn-Institut  
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