

SYMPOSIUM 38: ANIMAL MOVEMENT IN HETEROGENEOUS LANDSCAPES

Bonito, 19th June 2012 (Tuesday)

Cintia Cornelius (Universidade Federal do Amazonas, Brazil)

Jean Paul W. Metzger (Universidade de São Paulo, Brazil)

Movement is a key ecological process that is essential for the successful completion of many activities performed by animals during their life cycle, such as acquiring food, finding mates or suitable habitats. Movement patterns have also important evolutionary implications connecting populations in heterogeneous landscapes. Empirical knowledge about the movement process is essential to answer some important questions such as why, when, where and how animals move. Moreover, several behavioral processes such as dispersal or habitat selection are much better understood if movement behavior is studied in a spatially explicit framework. The goal of our symposium is to assemble a group of scientists working in tropical landscapes with a common interest in movement ecology that have used different approaches and tools to address questions related to how animals move in heterogeneous landscapes. During our symposium we intend to cover four main approaches for the study of movement: 1) movement behavior using telemetry and/or mark-recapture data (behavioral landscape ecology); 2) genetic and/or demographic approaches (landscape genetic approaches); and 3) statistical analysis and Bayesian modeling for the study of animal movement. Our final objective will be to identify research gaps in the movement ecology discipline and to identify elements that may significantly improve our understanding of animal population dynamics in heterogeneous landscapes in the Neotropical region.

TALKS (Room Kadiwéu, 14h00-15h30)

14h00-14h15 (S38.OC.01) **Functional connectivity quantified by demographic and genetic data explains species diversity in fragmented landscapes.** *Renata Pardini*

14h15-14h30 (S38.OC.02) **The role of sex, corridors and experience with fragmented landscapes on inter-patch dispersal movements.** *Marcelo Awade*

14h30-14h45 (S38.OC.03) **What does 'being there' mean? Using individual-bird movements to help interpret site-occupancy results.** *Gonçalo Ferraz*

14h45-15h00 (S38.OC.04) **A population-level approach to dynamic modeling of movement between habitats.** *Marco A. Rodriguez*

15h00-15h15 (S38.OC.05) **How do Central Amazonian understory birds use a heterogeneous landscape? One picture from different angles.** *Karl Mokross*

15h15-15h30 (S38.OC.06) **Population connectivity in a naturally fragmented landscape: genetic structure and diversity in a white-sand vegetation specialist bird species of the Amazon region.** *Cintia Cornelius*