

SYMPOSIUM 10: ECOSYSTEM DYNAMICS OF WESTERN AMAZONIA **Bonito, 20th June 2012 (Wednesday)**

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Western Amazonia has been shown to be different from Central and Eastern Amazonia in many aspects. For example, there are differences in edaphic and geological patterns between Western and Eastern Amazonia (Higgins et al. 2011; Quesada et al. 2011), which result in differences in forest composition, dynamics and productivity. However, most Amazonian research on ecosystem processes has been focused on Central and Eastern Amazonia (Peres et al. 2010), and, although research in Western Amazonian forests has increased over the last decade, published results are still scarce. The goal of this Symposium is to bring together different expertise working on the Western Amazon with the aim of highlighting recent advances in the understanding of Western Amazonian ecosystem processes, understanding the state of current scientific knowledge, identifying research challenges and enhancing multidisciplinary scientific collaboration. We hope to synthesise the talks in a Special Issue in an international journal.

TALKS (Room Guaicurus, 09h00-12h30)

09h00-09h15 (S10.CO.01) **Long-term Andean uplift controls productivity in Amazonian forests.** *Mark Higgins*

09h15-09h30 (S10.CO.02) **Is the Amazon rainforest adequately represented in terrestrial biosphere models?** *David Galbraith*

09h30-09h45 (S10.CO.03) **The impact of drought on carbon dynamics in Western Amazonian forests.** *Chris Doughty*

09h45-10h00 (S10.CO.04) **Carbon productivity, allocation and cycling in lowland and montane forests in Amazonia and the Andes.** *Yadvinder Malhi*

10h00-10h15 (S10.CO.05) **Spatial and seasonal variation of above ground net primary productivity along an elevation transect, Peruvian Andes.** *Cécile Girardin*

10h15-10h30 (S10.CO.06) **Ecosystem exchange of CO₂ and CH₄ between west Amazonian fertile forest and the atmosphere.** *Tomas Domingues*

Coffee Break

11h00-11h15 (S10.CO.07) **High-yield oil palm expansion spares land at the expense of forests in the Peruvian Amazon.** *Victor Gutierrez*

11h15-11h30 (S10.CO.08) **Changing fire regimes in the Peruvian Andes: implications for tropical montane cloud forests dynamics.** *Immaculada Oliveras*

11h30-11h45 (S10.CO.09) **Effects of different land-uses on soil organic C pools in the Peruvian tropical forests.** *Viktoria Oliver*

11h45-12h00 (S10.CO.010) **Dung beetles as indicators of land use change and implications for conservation in the Brazilian Amazon.** *Ricardo Ribeiro de Castro Solar*

12h00-12h15 (S10.CO.011) **Allometric models for estimating above-and below-ground biomass in Amazonian forests at São Gabriel da Cachoeira in the upper Rio Negro, Brazil.** *Gabriel Henrique Pires de Mello Ribeiro*

12h15-12h30 (S10.CO.12) **Composition and structure of the herbaceous community in three areas of the Southern Amazon.** *Eliana Celestino da Paixão Rodrigues dos Santos*

POSTERS (Karuha Space, 15h30-16h30)

S10.P.01. **The sensitivity of tropical leaf litter decomposition in Peruvian forest.** *Norma Salinas Revilla*

S10.P.02. **Floristic composition and diversity of a primary forest in the Eastern Amazon, Pará, Brazil.** *Vilany Matilla Carneiro*

S10.P.03. **How does nutrient availability influence rates of photosynthesis and leaf respiration in Amazonian tropical forest?** *Tomas Domingues*

S10.P.04. **Litter as a filter of herbaceous seedlings and sporophytes emergence in central Amazonia.** *Flávio Rodrigues*