

**SYMPOSIUM 31: OPPORTUNITIES AND CHALLENGES FACING CONSERVATION IN THE
BRAZILIAN AMAZON: HUMAN AND ECOLOGICAL DIMENSIONS**

Bonito, 22nd June 2012 (Friday)

Luke Parry (Lancaster University, UK)

Joice Ferreira (Embrapa Amazônia Oriental, Brazil)

Jos Barlow (Lancaster University, UK)

Toby A. Gardner (Lancaster University & University of Cambridge, UK)

Alexander C. Lees (Museu Paraense Emílio Goeldi, Brazil)

The Amazon is the world's largest remaining expanse of tropical forest, encompassing some 40% of the world's remaining tropical forests and a rapidly growing population of more than 20 million people. The region provides locally, regionally and globally significant human-welfare benefits both in terms of economic goods (e.g. timber, agricultural products), and non-market ecosystem services, including the regulation of climate and the conservation of biodiversity. However rural development in this region is often unsustainable, resulting in forest loss, land degradation, depletion of vital ecosystem services and local (and potentially global) species extinctions. This symposium will bring together talks from a number of large-scale projects, including the Rede Amazonia Sustentavel (RAS - coordinated by organizers of this symposium), which tackle the challenge of biodiversity conservation in the broader context of sustainable rural development. The symposium aims to integrate across different disciplines and research questions to contribute towards a broader understanding of how different land-uses impact upon the biodiversity and the environment, the provisioning of key ecosystem services and the overall benefits delivered for local communities and the rural economy.

TALKS (Karuha Room, 14h00-18h00)

14h00-14h15 (S31.OC.01) **Quantifying landscape degradation at a deforestation frontier in the Brazilian Amazon.** *Toby Gardner*

14h15-14h30 (S31.OC.02) **The end of slash-and-burn by Amazonian smallholders?** *Luke Parry*

14h30-14h45 (S31.OC.03) **Temporal patterns of road development in the Brazilian Amazon.** *Sadia Ahmed*

14h45-15h00 (S31.OC.04) **The influence of supply chain configurations on soybean profitability in the Brazilian Amazon: a comparative case study of Santarém, Pará and Sorriso, Mato Grosso.** *Rachael Garrett*

15h00-15h15 (S31.OC.05) **Biodiversity mapping to identify priorities for conservation and restoration in human-modified landscapes of the eastern Amazon.** *Jim Thomson*

15h15-15h30 (S31.OC.06) **The importance of degradation on tropical forests.** *Erika Berenguer*

Coffee Break

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16h30-16h45 (S31.OC.07) **Avian responses to Amazonian land-use change.** *Alexander Lees*

16h45-17h00 (S31.OC.08) **Recovery of forest biodiversity and carbon stocks following degradation and natural regeneration in the Amazon.** *Joice Ferreira*

17h00-17h15 (S31.OC.09) **Changing patterns of soil fertility below ground carbon in human-modified Amazonian landscapes.** *Mariana Durigan*

17h15-17h30 (S31.OC.10) **Responses of insect diversity and function to landscape change in the Amazon.** *Júlio Louzada*

17h30-17h45 (S31.OC.11) **Biotic condition of freshwater systems in human-modified Amazonian landscapes.** *Cecília Gontijo Leal*

17h45-18h00 (S31.OC.12) **Fire and the future of Amazonian forests.** *Jos Barlow*

POSTERS (Karuha Space, 15h30-16h30)

S31.P.01. **Environmental correlates of hunting and bushmeat consumption in the Amazonian agricultural frontier.** *Patricia Carignano Torres*

S31.P.02. **Instream and landscape influences on fish species composition in Brazilian Amazon.** *Cecília Gontijo Leal*