The tropical mountain forest, patterns and processes in a biodiversity hotspot

Gradstein, Stephan Robbert; Homeier, Jürgen; Gansert, Dirk (Eds.)

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In: The tropical mountain forest. Patterns and processes in a biodiversity hotspot. Biodiversity and Ecology Series, Vol. 2. Editors: Gradstein SR, Homeier J, Gansert D. Göttingen: Universitätsverlag. 2008; 177-193. Weber-Blaschke G, Mosandl R, Faulstich M: “History and mandate of sustainability: from local forestry to global policy”. In: Global sustainability. The impact of local cultures. Editors: Wilderer PA, Schroeder ED, Kopp H. Weinheim: WILEY-VCH Verlag, 2005; 5-19. Tropical deforestation and forest fragmentation are among the most important biodiversity conservation issues worldwide, yet local extinctions of millions of animal and plant populations stranded in unprotected forest remnants remain poorly explained. Here, we report unprecedented rates of local extinctions of medium to large-bodied mammals in one of the world’s most important tropical biodiversity hotspots. We scrutinized 8,846 person-years of local knowledge to derive patch occupancy data for 18 mammal species within 196 forest patches across a 252,669-km2 study region of the Brazilian...