Impact of human activities on Cross River gorilla *Gorilla gorilla diehli* habitats in the Mawambi Hills, southwest Cameroon

Denis Ndeloh Etiendem^{1,2,*}, Nikki Tagg^{2,3}, Luc Hens⁴, Zjef Pereboom²

 Human Ecology Department, Vrije Universiteit Brussel, Laarbeeklaan 103, Brussels 1090, Belgium
 Centre for Research and Conservation, Royal Zoological Society of Antwerp, Koningin Astridplein 26, Antwerp 2018, Belgium

³Projet Grands Singes (PGS), BP 5619 Nlongkak, Yaoundé, Cameroon ⁴Vlaamse instelling voor Technologish Onderzoek NV (VITO), Roderveldlaan 5, Antwerp 2600, Belgium

*Email: nndeloh@gmail.com

Endangered Species Research 20: 167–179 (2013)

Supplement 1. Hard and termite-resistant wood of *Carpolobia* sp. (*C. lutea* or *C. alba*) shown below are exploited heavily every few years from Mawambi Hills and environs. The wood is floated down the tributaries of the Cross River into neighbouring Nigeria where they are valued for use in cattle control by Fulani and Hausa herdsmen thus the name "hausa sticks".



Fig. S1. Bundles of hausa sticks Carpolobia spp. harvested from Mawambi Hills, southwest Cameroon

Table S1. Primate species recorded at Mawambi Hills, southwest Cameroon, between 2009 and 2011

Scientific name	Common name	Local name	Observed	Heard	Nest
Gorilla gorilla diehli	Cross River gorilla	Mekih	X	X	X
Pan troglodytes ellioti	Nigeria-Cameroon	Attiehe	X	X	X
	chimpanzee				
Cercopithecus mona	Mona monkey	Meseseh	X	X	_
Allochrocebus preussi	Preuss's monkey	Gepe-meseh	X	X	_
preussi					
Cercopithecus nictitans	Red-rumped putty-nosed	Rambeleh	X	X	_
ludio	monkey				
Cercopithecus erythrotis	Cameroon red-eared	Nkwe-meseh	X	X	_
camerunensis	monkey				
Galagoides demidovii	Demidoff's galago	Rabuaya	X		_
Euoticus pallidus talboti	Northern needle-clawed	Rabuaya-kulije		X	_
	galago				
Arctocebus calabarensis	Angwantibo (golden	Gakah		X	_
	potto)				

Table S2. NTFPs harvested from Mawambi Hills, southwest Cameroon; their principal human uses and known gorilla uses

Scientific name	Common name	Local name	Plant part used	Human use	Known gorilla use
Irvingia gabonensis and I. wombolu	Bush mango	Meshih	Seeds	Condiment, soup thickener	Fruits and seeds eaten
Gnetum africanum and G. buccholzianum	Eru	Gelu	Leaves	Leaves eaten	Leaves eaten
Ricinodendron heudelotii	Njangsang	Ngogeh	Seeds	Condiment	Fruits, roots, and bark eaten
Piper guineensis	Bush pepper/hot leaf	Bih	Leaves & seeds	Condiment, leafy vegetable	-
Garcinia mannii	Chewing stick	Geshare	Wood	Dental hygiene	-
Afrostyrax kamerunensis	Bush onion	Gebah-Elu	Seeds	Condiment	-
Garcinia kola	Bitter kola	Mialeh	Seeds	Stimulant, medicinal	Fruits and seeds eaten
Carpolobia lutea and C. alba	Hausa stick	Essah	Stems	Cattle stick	Fruits eaten
Cola accuminata and C. nitida	Cola	Nepeh	Seeds	Stimulant	Seeds and leaves eaten
Aframomum spp.	Alligator pepper	Gentchowh	Seed	Medicinal	Fruits eaten
Baillonella toxisperma	Njabe	-	Seed oil	-	Fruits eaten
Marantaceae spp.	Ngongo leaves	Onoramboh	Leaves	Food wrapping, weaving	Pith eaten
Dacryodes edulis	Bush plum	Mashuh	Fruits	Fruits eaten	Fruits eaten
Poga oleosa	Poga	Menywoh	Seeds	Kernel edible	-
Elaeis guineensis	Palm wine & affofo drink	Megoh	Sap	Locally brewed palmdrinks	Fruits eaten

Supplement 2.

Mawambi Hills Village Household Questionnaire Survey

Survey form number: Interviewer: Village: Date:	
1. 1.1 Who is the head of the household:	
 What are your primary sources of income (rank them from most 2.1 Agriculture: 2.2 Forest Products: 2.3 Livestock 2.4 Home Garden: 2.5 Business: 2.5 Fishing: 2.7 Technician: 2.8 Hunting: 2.9 Government worker: 	t to least important):
3.1 What are the crops grown: cocoa cassava cocoyam egusi plantain banana other 3.2 Number of harvests per year for each crop: cocoa cassava cocoyam egusi plantain banana other Cocoa cassava cocoyam egusi plantain Danana other	
 3.3 How many plots do you own: 3.4 What is the total area of your plots: 3.5 What is the distance to your fields: 3.6 How long have you been farming: 4. Livestock type: Cattle, Sheep, Goat, Chicken, Other 4.2 How many: 	

5. Forest products:

Name of NTFP	Do you collect it? Yes or No	Who collects it? 1. Father 2. Mother 3. Children 4. Other	Use 1. Personal 2. Market	How often 1. Every day 2. Weekly 3. Monthly 4. Other
1. Eru				
2. Bush onion				
3. Honey				
4. Njangsang				
5. Bush pepper				
6. Bush mango				
7. Mushroom				
8. Hausa stick				
9. Bitter cola				
10. Other				

6. Hunting (gun + snaring)

Name of animal	Do you hunt it? 1.Yes 2. No	Who collects it? 1. Father 2. Mother 3. Children 4. Other	Use 1. Personal 2. Market	How many animals did you hunt last year?
1. Gorilla				
2. Chimpanzee				
3. Duikers (all species)				
4. Monkeys (all species)				
5. Giant pouched rat				
6. Bush pig (River hog)				
7. Porcupine				
8. Marsh cane rat				
9. Pangolin				
10. Snake				
11. Other				

^{8.} How many snares did you set in the forest in 2009?9. On average, how many animals do you collect from your snares each month?10. How often do you check your snares?