

Wildlife in Ethiopia: Endemic Large Mammals

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Abstract: This study documented species richness of endemic large mammals and their biogeography, conservation status and threats in Ethiopia. Overall there are 280 mammalian species and subspecies 31 are endemic. Out of this, 12 of them are endemic large mammals, namely *Canis simensis*, *Theropithecus gelada gelada*, *Theropithecus gelada schreveri*, *Capra walie*, *Capra ibex*, *Capra mediana*, *Eurus arsius africanus*, *Equus asinus somaliensis*, *Alcelaphus buselaphus swynnii*, *Tragelaphus buxtoni*, *Tragelaphus scriptus mameriki*, *Loxodonta africana imoehrenhausi* and *Panthera leo abyssinicus*. Regarding the conservation status of these animals *Equus asinus africanus* and *Panthera leo abyssinicus* were extinct in wild another 2 *Theropithecus gelada gelada* and *Tragelaphus buxtoni* fall in presently least concern the rest 8 were in endangered category. Wildlife populations in Ethiopia are under continuous threat, despite the presence of parks and protected areas, over the past several decades, deforestation, farm expansion, draught and illegal hunting were widespread and they were ranked in order of severity from most severe to lesser threats. It is recommended that community based wildlife conservation is an important solution. However, for self sustaining ecosystem benefiting the people around the park although important, the ultimate goal should be to educate them.

Key words: Biogeography • Biodiversity • Community based conservation • Extinct • Habitat loss • National parks.

INTRODUCTION

Manifold as the landscape is the Ethiopian wildlife. Ethiopia is one of the world's rich biodiversity countries and it deserves attention regionally and globally [1, 2]. It has a very diverse set of ecosystems ranging from humid forest and extensive wetlands to the desert. Ethiopia has a total land area of 1.22 million hectares, with a varied topography from 116 m below sea level at the Afar triangle to 4533 m above sea level at mount Ras-Dushen. Alpine and mountainous vegetation vary with coniferous and broadleaved forests, vast savannah, steppes and deserts are interrupted by lakes and intersected by permanent and seasonal rivers accompanied by gallery forests [3]. The variations in climate, topography and vegetation have contributed to the presence of a large number of endemic species. Ethiopia's high faunal biodiversity reflects the existence of a large number of species of mammals and other higher vertebrates. This in turn reflects a diversity of habitats, created by differing combination of elevation, rainfall, geology, soil surface and ground water. Ethiopia is among the world leaders in terms of richness and endemism of mammalian species [4]. Ethiopia and

Tanzania are among the top 25 endemic-rich countries of the world in terms of higher vertebrate species where as Ethiopia, Kenya, Uganda and Tanzania are individually, among the world leaders in terms of species richness and endemism of mammal species [5]. However, wildlife population in Ethiopia has diminished over the past century both in amount and distribution through loss of habitat, hunting and land clearance for farming; land degradation due to overgrazing is also intense. The forest cover of Ethiopia declined from 47% to only 3% [6]. Even more important to conservationists, many endemic wild species occur within the country some of which inhabit only very small areas. In Ethiopia, 40 protected areas (National Parks, Animal Sanctuaries and Area Enclosure) cover roughly 16.4% of the country's land area (186,000 km²). These areas face many challenges due to growing populations, border conflicts and recurring drought. A chronic and growing issue for Ethiopia's largely pastoral people is local access to grazing lands [7, 8]. Given the recurring nature of conflict between conservation and local communities, it is critical that conservationists better understand local views with respect to wildlife and protected areas.

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