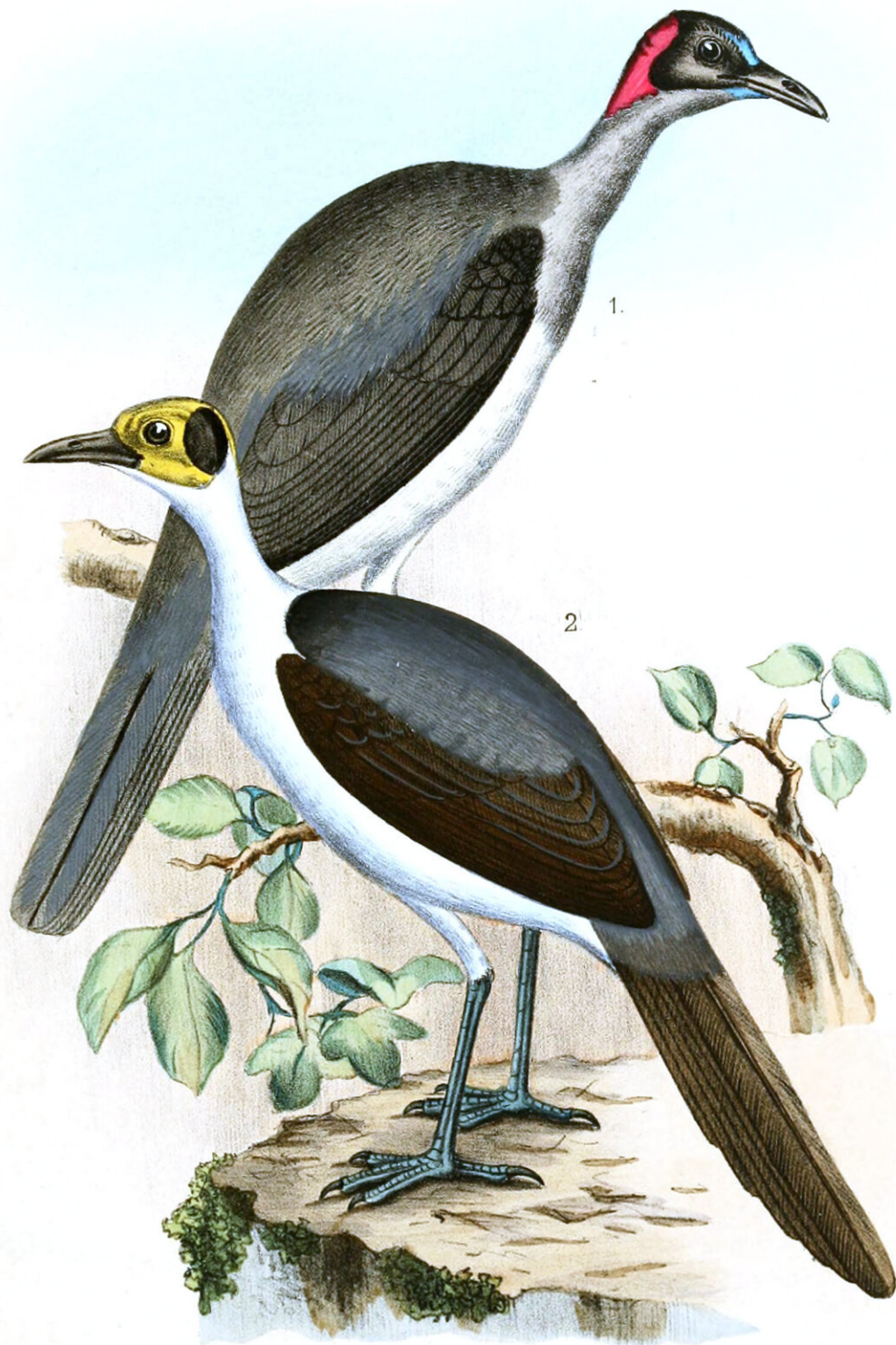


# **Threatened gray-necked rockfowl's habitat even smaller than expected, study finds**

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Druck v. O. Hollmann, Berlin.

1. *Picathartes oreas* Rchw.

2 *Picathartes gymnocephalus* (Tem.)

Credit: Anton Reichenow, artist unknown - Die Vogel Afrikas von Reichenow - Public Domain

A new study on gray-necked rockfowl has found a much smaller range of suitable habitat for this elusive African bird than was previously assumed, and may warrant a downgrade in its conservation status.

Scientists from the Cameroon Biodiversity Association (CAMBIO) in Cameroon, in partnership with San Diego Zoo Wildlife Alliance, set out to better understand how much suitable [habitat](#) remains for the rockfowl, and where the birds can still be found.

Understanding suitable habitat and its extent is crucial for protecting species. However, scientists have limited knowledge about the available habitat for many species, including the gray-necked rockfowl (*Picathartes oreas*). One of only two species in the little-known family Picathartidae, gray-necked rockfowl are found only in the forests of Central Africa. Changes in [land use](#) are resulting in disappearing forests and [habitat fragmentation](#) in this region.

The study, published in *Bird Conservation International*, utilized intensive field work and advanced modeling techniques to generate crucial insights, including evidence to suggest changing the species' status on the International Union for Conservation of Nature (IUCN) Red List of Threatened Species, from Near Threatened to Vulnerable.

Scientists assessed 339 new and historical gray-necked rockfowl occurrence records, along with environmental variables. Then they predicted suitable habitat available for gray-necked rockfowl, and where

[conservation efforts](#) for the species should be focused. The results show that the birds are strongly connected to areas with [steep slopes](#) and abundant forest cover, while variables related to climate, vegetation health and habitat condition didn't play a role in the birds' distribution.

This study did not consider, however, how predictor variables might change in the future, due to factors such as [climate change](#).

"Forest cover loss across Central Africa, home to many endemic, endangered and often understudied species, is accentuating biodiversity loss driven by climate change and other pressures," said Ekwoge Abwe, Ph.D., a Scientific Program Manager for San Diego Zoo Wildlife Alliance, manager of CAMBIO and a co-author of the study.

"Given its specific habitat requirements, including forest cover and steep slopes, the persistence of gray-necked Picathartes could be a good indicator of healthy forest. Conserving these unique habitats will help not only these birds, but a wide range of other related species."

Ultimately, the team identified around 6,690 square miles, or 17,327 square kilometers, that fit the [species'](#) desired criteria.

"Unfortunately, only about 2,490 square kilometers (961 square miles, or 14.4%) of this suitable habitat is in protected areas with strictly enforced conservation efforts," said Guilain Tsetagho, research assistant at CAMBIO, who led the study.

"Considering the bird's limited range, specific nesting habitat needs and the increasing pressures from human activities, changing its [conservation](#) status could help prevent further land use from damaging rockfowl-compatible areas."

**More information:** Guilain Tsetagho et al, Modeling the potential

distribution of the threatened Grey-necked Picathartes *Picathartes oreas* across its entire range, *Bird Conservation International* (2023). DOI: [10.1017/S0959270923000175](https://doi.org/10.1017/S0959270923000175)

Provided by San Diego Zoo Wildlife Alliance

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