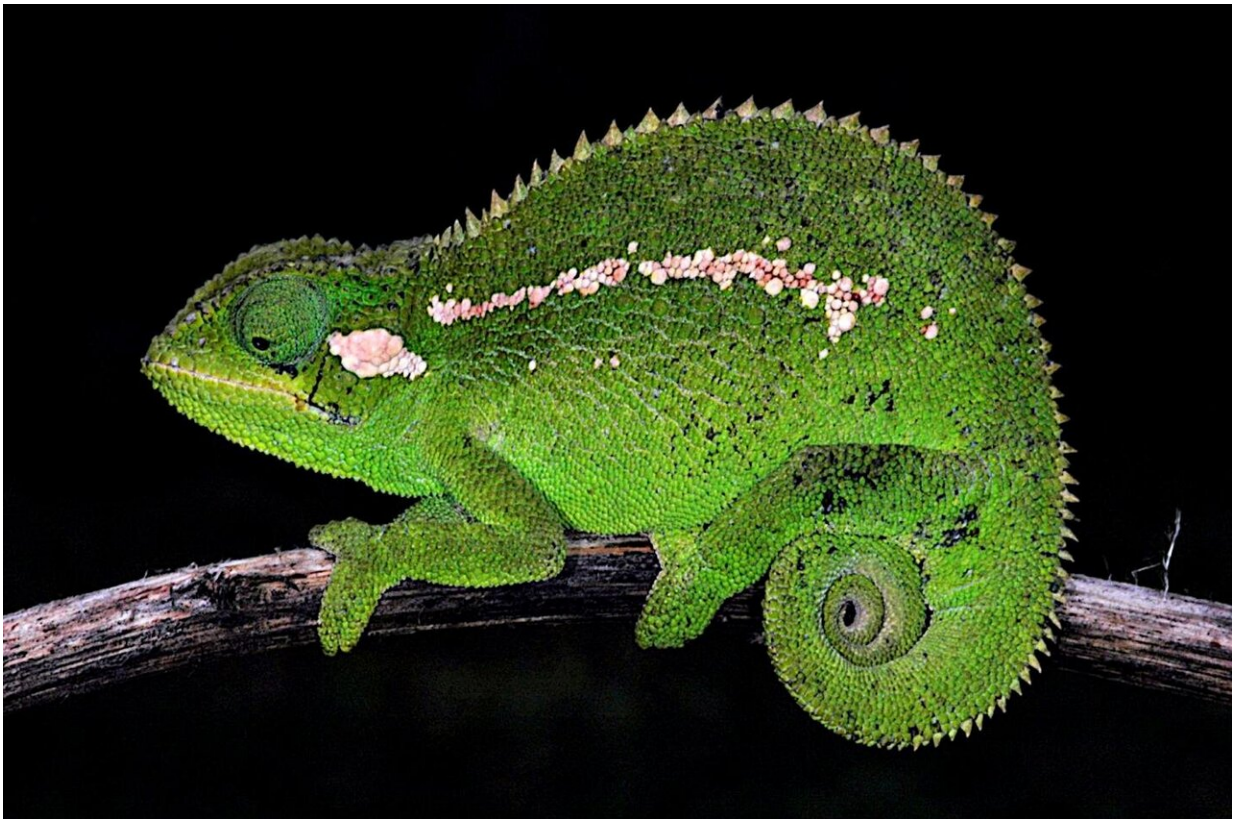


Another new chameleon from the Bale region of Ethiopia

March 23 2021



The new chameleon species, *Trioceros wolfgangboehmei*. Credit: Koppetsch et al.

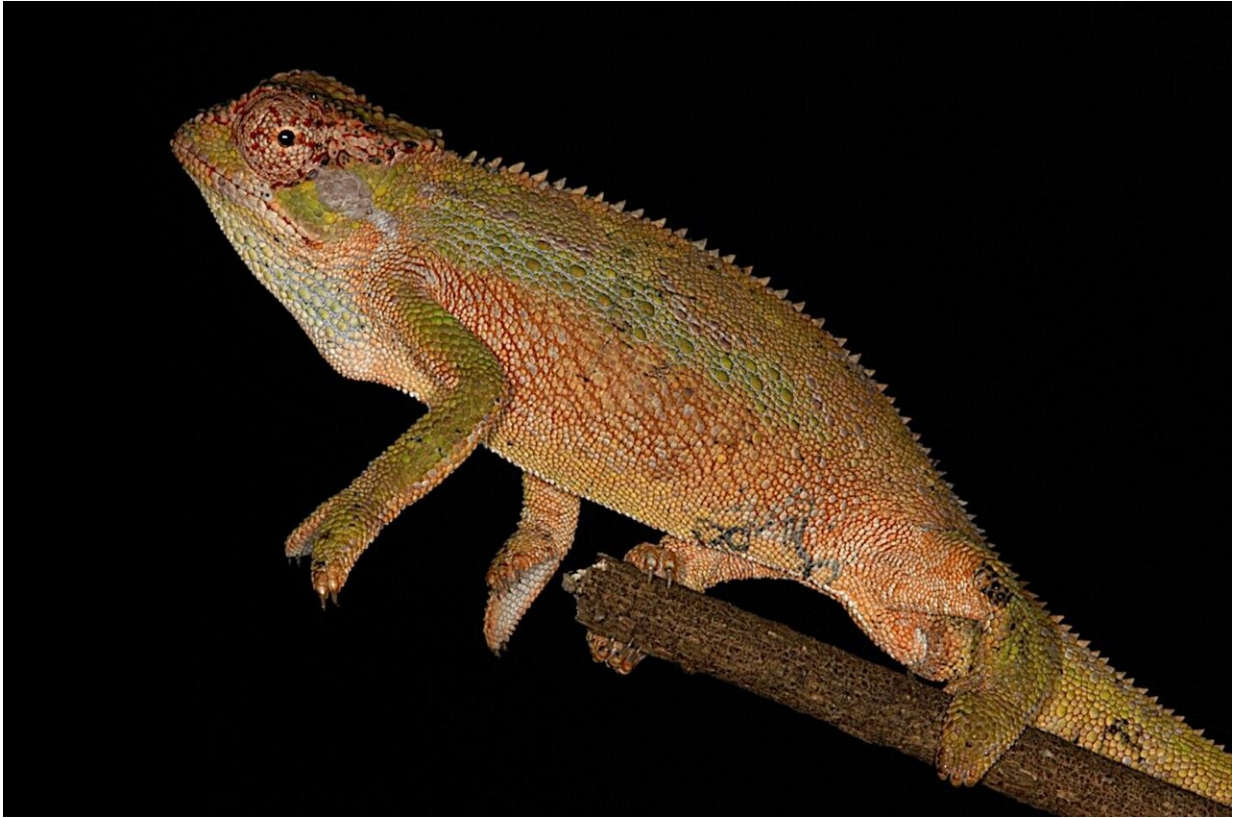
The Bale Mountains in south-central Ethiopia are considered to be one of the most unique centers of endemism, with an extraordinary number

of plants and animals that can only be found there. Numerous species are already known from this Afromontane high-elevation plateau, making it a biodiversity hotspot, but ongoing research continues to reveal the presence of so far unknown and undescribed organisms.

Zoologists Thore Koppetsch and Benjamin Wipfler of the Research Museum Alexander Koenig in Bonn, Germany, and Petr Nečas from the Czech Republic, describe one such species: a new small-sized chameleon living on the edge of the forest. Their findings were published in the open-access, peer-reviewed life science journal *Zoosystematics and Evolution*.

There were already two species of the chameleon genus *Trioceros* known to be restricted to the Bale region when Thore Koppetsch and his colleagues discovered another unique representative of this group from the northern slopes of the Bale Mountains. Interestingly, this new chameleon is considered to be part of a species complex of the widespread Ethiopian Chameleon *Trioceros affinis*. Previous studies have indicated divergence between its different populations across the Ethiopian Highlands—with some of them separated by the northern extension of the Great Rift Valley, which also shaped the evolution of early humans.

The new [chameleon](#), *Trioceros wolfgangboehmei*, has a special name. It honors the scientific work of Wolfgang Böhme, senior herpetologist at the Zoological Research Museum Alexander Koenig in Bonn, and his passion for chameleons and other reptiles.



Living individual of *Trioceros wolgangboehmei*. Credit: Koppetsch et al.



Head detail of the new chameleon, *Trioceros wolfgangboehmei*. Credit: Koppetsch et al.

Apart from its biogeographical patterns, the new [species](#) also has a characteristic appearance, displaying enlarged spiny scales on its back and tail that form a prominent crest. It usually lives on [small trees](#) and bushes at an altitude of above 2,500 m above sea level.

"Given the variation in color patterns and morphology between different populations of these chameleons in Ethiopia, it is likely that these groups still bear a higher hidden diversity than expected, which might be revealed by further ongoing investigations" Thore Koppetsch notes. Furthermore, the research team urges for sustainable preservation and conservation of its habitat to mitigate the impact of human activity.

More information: Thore Koppetsch et al, A new chameleon of the *Trioceros affinis* species complex (Squamata, Chamaeleonidae) from Ethiopia, *Zoosystematics and Evolution* (2021). [DOI: 10.3897/zse.97.57297](https://doi.org/10.3897/zse.97.57297)

Provided by Pensoft Publishers

Citation: Another new chameleon from the Bale region of Ethiopia (2021, March 23) retrieved 25 April 2024 from <https://phys.org/news/2021-03-chameleon-bale-region-ethiopia.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.