Future Students Current Students Parents/Families





Office of Research Communication

<u>Ohio University</u> > <u>Research</u> > <u>Research Communications</u> modern African venomous snakes found in Tanzania

Oldest fossil evidence of mode venomous snakes found in Tar



Shared Equipment and Facilities

Next Big Idea: Ohio University's Entrepreneurial Ecosystem



that has been examining the <u>Rukwa Rift Basin of Tanza</u> understand environmental change through time in the E

Elapids belong to a larger group of snakes known as col use a variety of methods, including venom, to capture

Colubroid fossils are documented as early as 50 million expected to constitute such a large part of the African ago, as they became dominant in Europe and North Am

"In the Oligocene epoch, from about 34 to 23 million yerpected to see a fauna dominated by booid snakes, su are generally 'sit and wait' constricting predators that h McCartney said.

In fact, the recent study includes a description of the obooid snakes, he said. The researchers have named thi *holmani*; the genus name combines the Rukwa region r for snake, and the species name is in honor of J. Alan H mentor.

However, the team was surprised to discover that the colubroids than booids. That higher-than-expected con suggests that the local environment became more open turn, more hospitable to these active foraging types of cover to hide and ambush prey—at an earlier time in A of the world, as documented in previous studies.

"This finding gives further strength to the idea that tec African Rift has helped to shape animal habitats in fasc Stevens, an associate professor of biomedical sciences author of the study. "The fossils suggest a fundamenta potentially venomous snakes that could exert very diffe fauna."

More fossils from additional locations should indicate w dominated all of Africa during the Oligocene or just the Rukwa Rift, McCartney said.

The study published in PLOS ONE describes eight differ the Rukwa Rift (five colubroid and three booid), with v from 2.6 mm to just over 5 mm.

The paper is available online at: http://dx.plos.org/10.

The study was funded by the National Science Foundati and the National Geographic Society.

Watch a video by the National Science Foundation abo

Photo caption: Vertebra from a fossil elapid under stuc McCartney.

Contacts: Jacob McCartney, (740) 593-2497

×

(74)

mccartnj@ohio.edu; Nancy Stevens, (740) 597-2785