

Fossil turtle from Colombia round like car tire

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The round shape of a new species of fossil turtle found in Cerrejon coal mine in Colombia may have warmed readily in the sun. Credit: Liz Bradford

Paleontologist Carlos Jaramillo's group at the Smithsonian Tropical Research Institute in Panama and colleagues at North Carolina State University and the Florida Museum of Natural History discovered a new species of fossil turtle that lived 60 million years ago in what is now northwestern South America. The team's findings were published in the *Journal of Paleontology*.

The new [turtle species](#) is named *Puentemys mushaisaensis* because it was found in La Puente pit in Cerrejón Coal Mine, a place made famous for

the discoveries, not only of the extinct Titanoboa, the world's biggest snake, but also of Carbonemys, a freshwater turtle as big as a smart car.



Paleontologists unearth the carapace of the giant turtle, Puentemys, which lived 60 million years ago in a hot tropical forest environment. Credit: Edwin Cadena

Cerrejon's fossil reptiles all seem to be extremely large. With its total length of 5 feet, Puentemys adds to growing evidence that following the extinction of the dinosaurs, tropical reptiles were much bigger than they are now. Fossils from Cerrejon offer an excellent opportunity to understand the origins of tropical biodiversity in the last 60 million years of Earth's history.

The most peculiar feature of this new turtle is its extremely circular shell, about the size and shape of a big car tire. Edwin Cadena, post-doctoral fellow at North Carolina State University and lead author of the paper, said that the turtle's round shape could have discouraged predators, including Titanoboa, and aided in regulating its body temperature.

The width of the turtle's shell probably exceeded the maximum

expansion of the Titanoboa's mouth. Its circular, low-domed shape would have increased the area of the body exposed to the sun, helping the cold-blooded turtle warm to a temperature at which it was more active.

More information: Cadena, E.A., Bloch, J.I., and Jaramillo, C.A. 2012. New Bothremydid turtle (Testudines, Pleurodira) from the Paleocene of Northeastern Colombia. *Journal of Paleontology*, 86(4):689-699.

Provided by Smithsonian Tropical Research Institute

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