

## A small camelid *Hemiauchenia* from the Late Pleistocene of Hidalgo, central Mexico

Victor M. Bravo-Cuevas, Eduardo Jiménez-Hidalgo, Gloria E. Cuevas-Ruiz, and Miguel A. Cabral-Perdomo

*Acta Palaeontologica Polonica* 57 (3), 2012: 497-508 doi: <http://dx.doi.org/10.4202/app.2011.0005>

Pleistocene camels from Mexico include representatives of llamas and camels. Their record spans from the Early Blancan to the Late Pleistocene, based on several localities in the northern, northwestern and central parts of the country, with members of the genus *Hemiauchenia* being particularly well represented. New specimens of a small llama, collected in the state of Hidalgo, central Mexico, are assigned to *Hemiauchenia gracilis* owing to a combination of cranial and postcranial characters, including a short upper premolar–molar series, the presence of a two–rooted P3, molars covered by a thin layer of cementum, U–shaped molar crescents, well–developed styles and ribs, a small degree of crenulation, a relatively short lower tooth row, the lack of p1 and p3, weakly developed anteroexternal stylids, a shallow and slender mandible, and long and slender metatarsals and phalanges. The material described here extends the Pleistocene geographic distribution of *H. gracilis* from northern to central Mexico, and its biochronological range from the Early Blancan to the Late Pleistocene (Rancholabrean), thus making it the southernmost record and the geochronologically youngest occurrence of this species in North America. The mesowear pattern of the material from Hidalgo suggests that these animals were mainly browsers. Their estimated body mass resembles that of Blancan specimens from Guanajuato, implying that this species maintained approximately the same body mass throughout its biochronological range in central Mexico.

**Key words:** Camelidae, *Hemiauchenia*, llamas, late Pleistocene, Hidalgo, central Mexico.

Victor M. Bravo-Cuevas [[ybravo@uaeh.edu.mx](mailto:ybravo@uaeh.edu.mx)] and Miguel A. Cabral-Perdomo [[mcabralperdomo@gmail.com](mailto:mcabralperdomo@gmail.com)], Museo de Paleontología, Área Académica de Biología, Universidad Autónoma del Estado de Hidalgo. Ciudad Universitaria s/n, Carretera Pachuca-Tulancingo km 4.5, CP 42184, Pachuca, Hidalgo, México; Eduardo Jiménez-Hidalgo [[eduardojh@zicatelamar.mx](mailto:eduardojh@zicatelamar.mx)], Laboratorio de Paleobiología, Instituto de Recursos, campus Puerto Escondido, Universidad del Mar, Km 2.5 Carretera Puerto Escondido–Oaxaca, CP 71980; Gloria E. Cuevas-Ruiz [[gloriaerick@hotmail.com](mailto:gloriaerick@hotmail.com)], Maestría en Ciencias en Biodiversidad y Conservación, Área Académica de Biología, Universidad Autónoma del Estado de Hidalgo. Ciudad

Universitaria s/n, Carretera Pachuca-Tulancingo km 4.5, CP 42184, Pachuca, Hidalgo, México.

This is an open-access article distributed under the terms of the Creative Commons Attribution License (for details please see [creativecommons.org](https://creativecommons.org)), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

 [Full text \(603.1 kB\)](#)