## The Last Marine Pelomedusoids: a new species of *Bairdemys* and the Paleoecology of *Stereogenyina*

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**Supplemental file 3 - List of employed specimens and description of the landmarks used in the geometric morphometric analyses**

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| **Palate Analysis** |  |  |  |
| Species | Higher clade | Specimen | Diet |
| *Chelonia mydas* | Chelonidae | AMNH 5912 | Non-durophagous |
| *Chelonoids denticulata* | Testudinidae | USNM 73932 C | Non-durophagous |
| *Dermochelys coriaceae* | Dermochelyidae | AMNH 7160 | Non-durophagous |
| *Eretmochelys imbricata* | Chelonidae | ZMB 46556 | Non-durophagous |
| *Erymnochelys madagascariensis* | Podocnemididae | SMF 7979 | Non-durophagous |
| *Peltocephalus dumerilianus* | Podocnemididae | INPA-H 22885 | Non-durophagous |
| *Podocnemis expansa* | Podocnemididae | MPEG 0292 | Non-durophagous |
| *Podocnemis unifilis* | Podocnemididae | INPA-H 8942 | Non-durophagous |
| *Trachemys scripta* | Emydidae | UCMP 138016 | Non-durophagous |
| *Geoclemys hamiltonii* | Geomydidae | CRI 487 | Durophagous |
| *Graptemys barbouri* | Emydidae | UCMP 130640 | Durophagous |
| *Graptemys pseudogeographica* | Emydidae | USNM 24695 1 | Durophagous |
| *Lepidochelys olivacea* | Chelonidae | ZMB 51999 | Durophagous |
| *Malayemys subtrijuga* | Geomydidae | PCHP 3446 | Durophagous |
| *Bairdemys venezuelensis* | Podocnemididae | MCNC-Pal-21-10708 | Unknown |
| *Bairdemys winklerae* | Podocnemididae | AMU-CURS-98 | Unknown |
| *Lemurchelys diasphax* | Podocnemididae | DPC 6425 | Unknown |
|  |  |  |  |
| **Lower Jaw Analysis** |  |  |  |
| Species | Higher clade | Specimen | Diet |
| *Chelonia mydas* | Chelonidae | AMNH 5912 | Non-durophagous |
| *Chelonoids denticulata* | Testudinidae | USNM 73932 M | Non-durophagous |
| *Dermochelys coriaceae* | Dermochelyidae | MNHN Pal 1870-101 | Non-durophagous |
| *Eretmochelys imbricata* | Chelonidae | ZMB 46556 | Non-durophagous |
| *Erymnochelys madagascariensis* | Podocnemididae | SMF 7979 | Non-durophagous |
| *Peltocephalus dumerilianus* | Podocnemididae | INPA-H 22885 | Non-durophagous |
| *Podocnemis expansa* | Podocnemididae | MPEG 0292 | Non-durophagous |
| *Podocnemis unifilis* | Podocnemididae | INPA-H 8942 | Non-durophagous |
| *Trachemys scripta* | Emydidae | UCMP 138016 2 | Non-durophagous |
| *Caretta caretta* | Chelonidae | ZMB 46511 | Durophagous |
| *Geoclemys hamiltonii* | Geomydidae | CRI 487 | Durophagous |
| *Graptemys geographica* | Emydidae | UCMVZ 222414 2 | Durophagous |
| *Graptemys pseudogeographica* | Emydidae | USNM 24695 2 | Durophagous |
| *Lepidochelys olivacea* | Chelonidae | ZMB 51999 | Durophagous |
| *Malayemys subtrijuga* | Geomydidae | PCHP 3446 | Durophagous |
| *Bairdemys healeyorum* | Podocnemididae | SC 90-16 | Unknown |
| *Bairdemys venezuelensis* | Podocnemididae | MCNC Pal-26A-72V | Unknown |
| *Stereogenys cromeri* | Podocnemididae | UM 161 | Unknown |

**Abbreviations: AMNH:** American Museum of Natural History, New York, USA; **AMU-CURS:** Alcadía del Municipio de Urumaco, Colección Rodolfo Sánchez, Urumaco, Venezuela; **CRI:** collection of the Chelonian Research Institute, Oviedo, USA ; **DPC:** Duke Primate Center, Durham, USA; **INPA-H**: Coleção de Herpetologia do Instituto Nacional de Pesquisas da Amazonia, Manaus, Brazil; **MCNC-PAL:** Colección de Paleontología del Museu de Ciencias Naturales de Caracas, Caracas, Venezuela; **MNHN:** Muséum National d'Histoire Naturelle, Paris, France; **MPEG:** Museu Paraense Emilio Goeldi, Belém, Brazil; **PCHP:** collection of the Chelonian Research Institute, Oviedo, USA; **SC:** South Carolina State Museum, Columbia, USA; **UCMP:** University of California Museum of Paleontology, Berkeley, USA; **UCMVZ:** ; **UM:** Montpellier University, Montpellier, France; **USNM:** United States National Museum, Washington, DC, USA; **ZMB:** Museum für Naturkunde, Berlin, Germany;

**Description of the landmarks in the upper jaw**

|  |  |
| --- | --- |
| Landmark | Description |
| 1 | Rostral edge of the triturating surface on the contact between the premaxillae |
| 2 | Contact between the left premaxilla and maxilla on the labial ridge of the triturating surface |
| 3 | Median distance between landmarks 1 and 4 |
| 4 | Left caudolateral edge of the triturating surface |
| 5 | Left caudomedial edge of the triturating surface |
| 6 | Median distance between landmarks 5 and 7 |
| 7 | Caudal edge of the midline extension of the triturating surface |
| 8 | Median distance between landmarks 7 and 9 |
| 9 | Right caudomedial edge of the triturating surface |
| 10 | Right caudolateral edge of the triturating surface |
| 11 | Median distance between landmarks 10 and 1 |
| 12 | Contact between the right premaxilla and maxilla on the labial ridge of the triturating surface |

Description of the landmarks in the lower jaw

|  |  |
| --- | --- |
| Landmark | Description |
| 1 | Rostral edge of the triturating surface |
| 2 | Median distance between landmarks 1 and 3 |
| 3 | Left caudolateral edge of the triturating surface |
| 4 | Left caudomedial edge of the triturating surface |
| 5 | Median distance between landmarks 4 and 6 |
| 6 | Caudal edge of the midline extension of the triturating surface |
| 7 | Median distance between landmarks 6 and 8 |
| 8 | Right caudomedial edge of the triturating surface |
| 9 | Right caudolateral edge of the triturating surface |
| 10 | Median distance between landmarks 9 and 1 |