

Supplementary Data to: Ferreira GS, Werneburg I, Lautenschlager S, Evers SW. *Contrasting brains and bones: neuroanatomical evolution of turtles (Testudinata)*, in: Dozo MT, Paulina-Carabajal A, Macrini TE, Walsh S, Paleoneurology of Amniotes: new directions in the study of fossil endocasts.

Table S1. Data availability for all specimens used in this chapter. Data type abbreviation: BE, braincase endocast model; BR, brain model; BS, basisphenoid model; CC, chondrocranial sphenoid cartilage mode; CN-, cranial nerves II-XII; CT, CT slice data; EL, endosseous labyrinth model; LHV, lateral head vein model; MCA, major cranial arteries model; ML, membranous labyrinth model. Repository abbreviations: DM, Digimorph; M3, MorphoMuseum; MB, MorphoBank; MS, MorphoSource. Institutional abbreviations follow the same collection codes as in Table 1.

* *Podocnemis unifilis* (SMF 55470) is mistakenly identified as *Peltocephalus dumerilianus* in MS#000354131.

¹When using these datasets please cite: Werneburg I, Evers SW, Ferreira GS (2021b) 3D models related to the publication: On the “cartilaginous rider” in the endocasts of turtle brain cavities. MorphoMuseum 7:146 <https://doi.org/10.18563/journal.m3.146>

Taxon	Specimen	Media availability
<i>Annemys</i> sp.	IVPP-V-18106	MS#000376666 (BE); MS#000374487 (EL); DM (CT)
<i>Apalone spinifera</i>	FMNH-22178	MS#000376651 (BE); MS#000372723 (EL); MS#000042603 (CT)
<i>Apalone spinifera</i>	YPM VZ-12970	MS#000376270 (BR); MS#000376276 (BE); MS#000376187 (ML); MS#000376184 (EL); MS#000375596 (CT)
<i>Caretta caretta</i>	NHMUK-19403151	MS#000376288 (BE); MS#000373007 (EL); MS#000077382 (CT)
<i>Caretta caretta</i>	GPIT-PV-122905	MS#000376291 (BR); MS#000376294 (BE); MS#000376193 (ML); MS#000376190 (EL); MS#000375567 (CT)
<i>Carettochelys insculpta</i>	USNM-327690	CT: permission request pending
<i>Chelodina reimanni</i>	ZMB-49659	M3#774 ¹ (BE); CT: permission request pending
<i>Chelonia mydas</i>	ZMB-37416MS	M3#775 ¹ ; CT: permission request pending
<i>Chelydra serpentina</i>	UFRVP-1	MS#000376682 (BE); MB#3143 (CT)
<i>Chelydra serpentina</i>	YPM VZ-14442	MS#000376640 (BR); MS#000376643 (BE); MS#000376199 (ML); MS#000376196 (EL); MS#000375573 (CT)
<i>Cuora amboinensis</i>	NHMUK-69421454	MS#000376654 (BE); MS#000373088 (EL); MS#000077390 (CT)
<i>Cuora amboinensis</i>	SMNS-48672	MS#000376634 (BR); MS#000376637 (BE); MS#000376205 (ML); MS#000376202 (EL); MS#000375591 (CT)
<i>Emydura subglobosa</i>	PIMUZ-2009.37	MS#000376267 (BE); MS#000373416 (EL); MS#000354142 (CT)
<i>Emydura subglobosa</i>	GPIT-PV-122906	MS#000376273 (BR); MS#000376279 (BE); MS#000376217 (ML); MS#000376214 (EL); MS#000376016 (CT)
<i>Emys orbicularis</i>	SMF-1987a	MS#000376710 (BE); MS#000373422 (EL); MS#000354014 (CT)
<i>Emys orbicularis</i>	SMNS-11390	MS#000376282 (BR); MS#000376285 (BE); MS#000376223 (ML); MS#000376220 (EL); MS#000376024 (CT)
<i>Eubaena cephalica</i>	DMNH-96004	MS#000376657 (BE); MS#000373447 (EL); MS#000056542 (CT)
<i>Gopherus berlandieri</i>	AMNH-73816	M3#779 ¹ (BE); CT: permission request pending
<i>Kinixys belliana</i>	AMNH-10028	M3#780 ¹ (BE); CT: permission request pending
<i>Kinosternon subrubrum</i>	FMNH-211711	MS#000376685 (BE); MS#000373575 (EL); MS#000077404 (CT)
<i>Kinosternon subrubrum</i>	YPM VZ-10089	MS#000376691 (BR); MS#000376694 (BE); MS#000376229 (ML); MS#000376226 (EL); MS#000376028 (CT)
<i>Macrochelys temminckii</i>	GPITRE-10801	M3#781 ¹ (BE); CT permission request pending
<i>Malacochersus tornieri</i>	SMF-58702	M3#787 ¹ (BE); MS#000373679 (EL); MS#000354087 (CT)

<i>Naomichelys speciosa</i>	FMNH-PR-273	MS#000376663 (BE); MS#000373728 (EL); MS#000355953 (CT)
<i>Pelodiscus sinensis</i>	GPIT-PV-122907	M3#783 ¹ (BE); MS#000373752 (EL); MS#000355874 (CT)
<i>Pelusios niger</i>	SMNS-4625	MS#000376303 (BR); MS#000376306 (BE); MS#000376235 (ML); MS#000376232 (EL); MS#000376033 (CT)
<i>Platysternon megacephalum</i>	YPM VZ-12559	MS#000376697 (BR); MS#000376704 (BE); MS#000376247 (ML); MS#000376244 (EL); MS#000376037 (CT)
<i>Platysternon megacephalum</i>	SMF-69684	M3#784 ¹ (BE); MS#000373800 (EL); MS#000354125 (CT)
<i>Podocnemis erythrocephala</i>	SMNS-6063	MS#000376297 (BR); MS#000376300 (BE); MS#000376241 (ML); MS#000376238 (EL); MS#000376042 (CT)
<i>Podocnemis unifilis</i>	SMF-55470	M3#785 ¹ (BE); MS#000373764 (EL); MS#000354131* (CT)
<i>Proganochelys quenstedti</i>	MB-1910452	M3#788 ¹ (BE); CT: no permission to upload
<i>Proganochelys quenstedti</i>	SMNS-16980	MS#000376688 (BE); CT: no permission to upload
<i>Rhinocelys pulchriceps</i>	CAMSMB-55775	MS#000376676 (BE); MS#000057625 (EL); MS#000057446 (CT)
<i>Rhinoclemmys funerea</i>	YPM-12174	M3#791 ¹ (BE); CT: permission request pending
<i>Sandownia harrisi</i>	MIWG-3480	MS#000376660 (BE); MS#000373980 (EL); MS#000042933 (CT)
<i>Testudo graeca</i>	YPM-14342	M3#793 ¹ (BE); CT: permission request pending
<i>Testudo hermanni</i>	AMNH-134518	M3#794 ¹ (BE); CT: permission request pending
<i>Trachemys scripta</i>	MS 000376944	MS#000377039 (CC); MS#000377035 (BS); MS#000377031 (BE); MS#000377027 (BR); MS#000377023 (CN-XII); MS#000377019 (CN-X-XI); MS#000377015 (CN-IX); MS#000377007 (CN-VIII); MS#000376999 (CN-VII); MS#000376995 (CN-VI); MS#000376991 (CN-V); MS#000376987 (CV-IV); MS#000376983 (CN-III); MS#000376977 (CN-II); MS#000376971 (LHV); MS#000376967 (MCA); MS#000376963 (ML-right); MS#000376955 (ML-left); MS#000376959 (EL-right); MS#000376951 (EL-left); CT: permission request pending
<i>Xinjiangchelys radiplicatoides</i>	IVPP-V-9539	MS#000376669 (BE); MS#000374528 (EL); MS#000114669 (CT)