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SUPPLEMENTAL CONTENT

The oldest occurrence of *Crocodylus* in Madagascar and the Holocene crocodylian turnover

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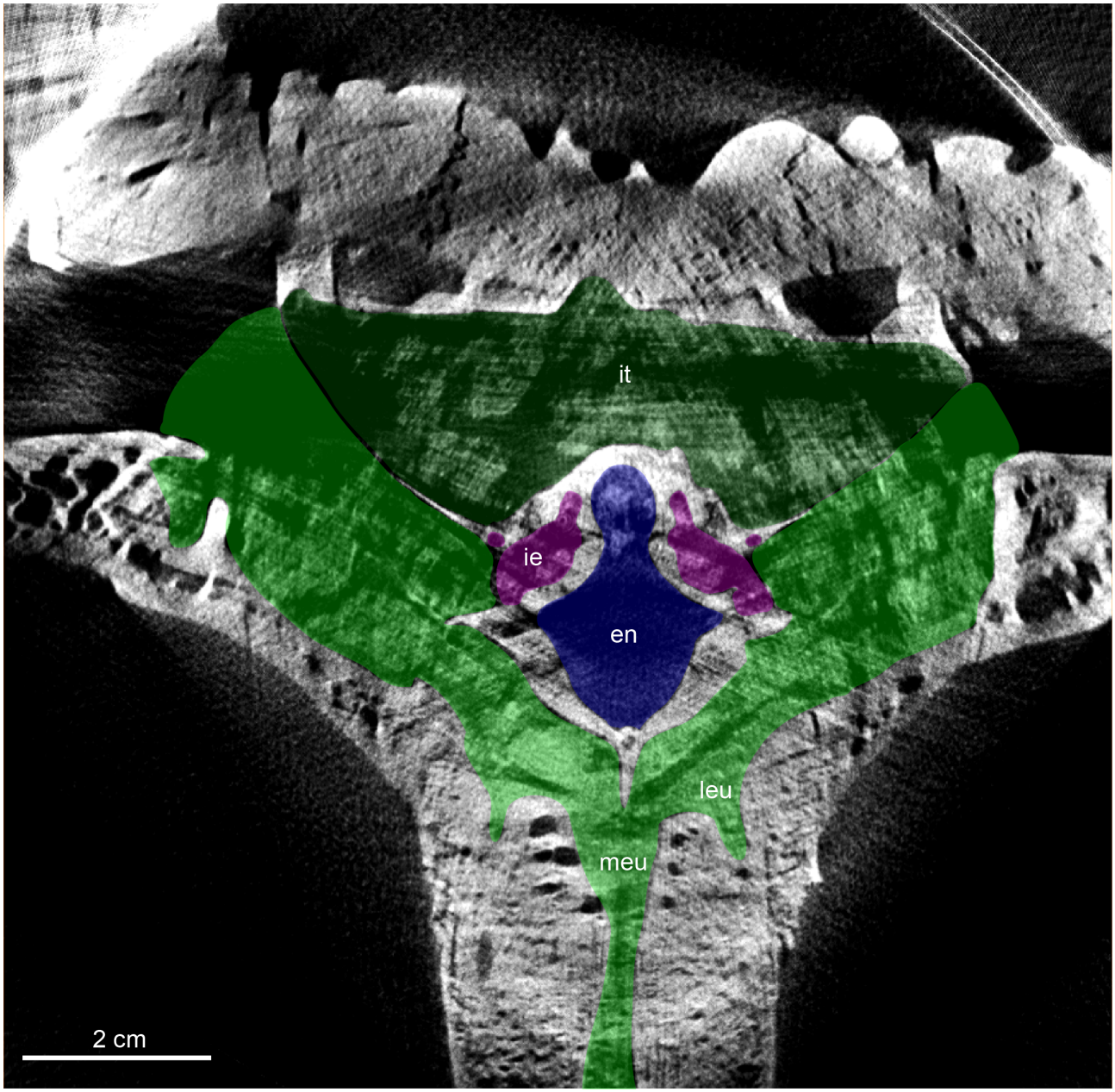

FIGURE S1. Transverse slice obtained from CT data at the level of the labyrinths in *Voay robustus* (MNHN-F-1908-5) with superimposed colored areas of endocranial structures including the intertympanic sinus (dark green), the pharyngotympanic sinus (light green), labyrinths (purple) and endocast (blue). **Abbreviations**: **en**, endocast; **ie**, Inner ear; **it**, intertympanic; **leu**, lateral Eustachian canal; **meu**, median Eustachian canal (see Figure 3 for complementary information).

TABLE S1. Direct radiocarbon dating of crocodyline specimens from this study and from the literature from the Holocene of Madagascar. For homogenous comparison, all radiocarbon dates were calibrated using the OxCal software v4.4 (Bronk Ramsey and Lee, 2013; Bronk Ramsey, 2017) and the most recent calibration curve data for the Southern Hemisphere SHCal20 (Hogg et al., 2020).

Taxonomy	Provenance	Curation number	Lab number	Radiocarbon age (BP)	Calibrated date (2σ - cal BP)*	References
Crocodylus sp.	Antsirabé area	MHNL QV14	SacA 57934	6735 ± 35	7670 - 7480	this study
Crocodylus sp.	Antsirabé area	MHNL QV14	SacA 57935	6760 ± 35	7670 - 7500	this study
Crocodylus sp.	Antsirabé area	MHNL QV14	SacA 57936	6780 ± 35	7680 - 7510	this study
Voay robustus	Soarano Cave	UABEC 1358	CAMS 183952	2340 ± 30	2360 - 2140	Godfrey et al., 2021
Voay robustus	Ampoza	AMNH FR-3101	?	1450 ± 30	1370 - 1270	Hekkala et al., 2021
Voay robustus	Ampoza	AMNH FR-3103	?	1380 ± 30	1310 - 1170	Hekkala et al., 2021
Voay robustus	Ankilibehandry	?	CAMS 167399	1920 ± 30	1890 - 1730	Samonds et al., 2019
Crocodylus niloticus	Anjohibe Cave	UAP-03.791	CAMS 150524	360 ± 25	470 - 300	Crowley and Samonds, 2013

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