3D models related to the publication: An assemblage of giant aquatic snakes (Serpentes, Palaeophiidae) from the Eocene of Togo

Georgios L Georgalis, Guillaume Guinot, Koffi Evenyon Kassegne, Yawovi Zikpi Amoudji, Ampah Kodjo C Johnson, Henri Cappetta, Lionel Hautier

To cite this version:
Georgios L Georgalis, Guillaume Guinot, Koffi Evenyon Kassegne, Yawovi Zikpi Amoudji, Ampah Kodjo C Johnson, et al.. 3D models related to the publication: An assemblage of giant aquatic snakes (Serpentes, Palaeophiidae) from the Eocene of Togo. MorphoMuseum, 2021, 7 (3), 10.18563/journal.m3.154. hal-03413124

HAL Id: hal-03413124
https://hal.science/hal-03413124
Submitted on 3 Nov 2021

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L’archive ouverte pluridisciplinaire HAL, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d’enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.
3D models related to the publication: An assemblage of giant aquatic snakes (Serpentes, Palaeophiidae) from the Eocene of Togo

Georgios L. Georgalis1*, Guillaume Guinot2, Koffi Evenyon Kassegne3,Yawovi Zikpi Amoudji3,Ampah Kodjo Johnson3, Henri Cappetta2, Lionel Hautier2

1 Palaeontological Institute and Museum, University of Zurich, Karl Schmid-Strasse 4, 8006 Zurich, Switzerland
2 Institut des Sciences de l’Evolution de Montpellier, Université Montpellier, CNRS,IRD,Cc 064;place Eugène Bataillon, 34095 Montpellier Cedex 5, France
3 Département de Géologie, Faculté des Sciences, Université de Lomé, B.P. 1515 Lomé, Togo

* Corresponding author: georgios.georgalis@pim.uzh.ch

Abstract
This contribution contains the 3D models described and figured in the following publication: Georgalis, G.L., G. Guinot, K.E. Kassegne, Y.Z. Amoudji, A.K.C. Johnson, H. Cappetta and L. Hautier. 2021. An assemblage of giant aquatic snakes (Serpentes, Palaeophiidae) from the Eocene of Togo. Swiss Journal of Palaeontology 140, 20, https://doi.org/10.1186/s13358-021-00236-w

Keywords: Africa, Eocene, Palaeophis, Serpentes, vertebral anatomy

Submitted: 2021-08-17, published online: 2021-09-24. https://doi.org/10.18563/journal.m3.154

Table 1. List of models belonging to Palaeophis africanus. Collection: Institut des Sciences de l’Evolution, Université de Montpellier, France.

| Inv nr.    | Description |
|------------|-------------|
| UMKP021    | Trunk vertebra |
| UMKP022    | Trunk vertebra |
| UMKP023    | Trunk vertebra |
| UMKP024    | Trunk vertebra |
| UMKP025    | Trunk vertebra |
| UMKP026    | Trunk vertebra |
| UMKP027    | Trunk vertebra |
| UMKP028    | Trunk vertebra |
| UMKP029    | Trunk vertebra |
| UMKP030    | Trunk vertebra |
| UMKP031    | Trunk vertebra |
| UMKP032    | Trunk vertebra |
| UMKP033    | Trunk vertebra |
| UMKP034    | Trunk vertebra |
| UMKP035    | Trunk vertebra |
| UMKP036    | Trunk vertebra |
| UMKP037    | Trunk vertebra |

3D virtual restoration was performed with MorphoDig software (v. 1.5.3; Lebrun 2018) and the virtually restored 3D models are provided in .stl and .vtp formats.

ACKNOWLEDGEMENTS
Grant sponsor: Forschungskredit of the University of Zurich grant no. [FK-20-110], SYNTHESYS GB-TAF-6591, SYNTHESYS ES-TAF-5910 (MNCN), SYNTHESYS AT-TAF-5911 (NHMW), and SYNTHESYS HU-TAF-6145 (HNHM), all to GLG. Grant sponsor: French National Research Agency (ANR-10-INBS-04, ‘Investments for the future’), Labex CEMEB (ANR-10-LABX-0004), NUMEV (ANR-10-LABX-0020), CNRS PICS grant (n8229424), the National Geographic Society (grant NGS-72222R-20).

BIBLIOGRAPHY
Georgalis, G. L., G. Guinot, K. E. Kassegne, Y. Z. Amoudji, A. K. C. Johnson, H. Cappetta and L. Hautier. 2021. An assemblage of giant aquatic snakes (Serpentes, Palaeophiidae) from the Eocene of Togo. Swiss Journal of Palaeontology 140, 20, https://doi.org/10.1186/s13358-021-00236-w

Lebrun, R. 2018. MorphoDig, an open-source 3D freeware dedicated to biology. IPC5, Paris.
Figure 1. 3D models of four snake vertebrae of *Palaeophys africanus* from the Eocene of Togo (from left to right: UM KPO 22, UM KPO 32, UM KPO 21, and UM KPO 24; Université de Montpellier). From left to right, the first vertebra (UM KPO 22) is shown in right anterolateral view, the second one (UM KPO 32) in anterodorsal view, and the third (UM KPO 21) and fourth (UM KPO 24) vertebrae are shown in anterior view. Images are not to the same scale.