Dataset

3D model related to the publication: The largest freshwater odontocete: a South Asian river dolphin relative from the Proto-Amazonia

Aldo Benites-Palomino[1,2], Gabriel Aguirre-Fernández[1*], Patrice Baby[3], Diana Ochoa[4,5], Ali Altamirano-Sierra[2], John J. Flynn[6], Marcelo R. Sánchez-Villagra[1], Julia Tejeda[2,7], Christian de Muizon[8], Rodolfo Salas-Gismondi[2,4,6]

[1] *Department of Paleontology, University of Zurich, Karl-Schmid-Strasse 4, 8006 Zürich, Switzerland.*
[2] *Departamento de Paleontología de Vertebrados, Museo de Historia Natural-Universidad Nacional Mayor de San Marcos, Avenida Arenales 1256, Lima 11, Peru.*
[3] *Geosciences-Environnements Toulouse, Université de Toulouse, UPS (SVT-OMP), CNRS, IRD, 14 Avenue Édouard Belin, Toulouse 31400, France.*
[4] *Facultad de Ciencias e Ingienerías/Centro de Investigación para el Desarrollo Integral y Sostenible, Laboratorios de Investigación y Desarrollo, Universidad Peruana Cayetano Heredia, Lima, Peru.*
[5] *Departmento de Geología, Universidad de Salamanca, 37008, Spain.*
[6] *Division of Paleontology, American Museum of Natural History, New York, NY, USA.*
[7] *Division of Geological and Planetary Sciences, California Institute of Technology, Pasadena, CA, USA.*
[8] *Departement Origines et Evolution, CR2P UMR 7207, (MNHN, CNRS, UPMC, Sorbonne-Université), Muséum national d'Histoire naturelle, rue Cuvier 57, 75005, Paris, France.*
***Corresponding author**: gabriel.aguirre@pim.uzh.ch

Abstract
The present 3D Dataset contains the 3D model analyzed in "The largest freshwater odontocete: a South Asian river dolphin relative from the Proto-Amazonia".

Keywords: Miocene, Odontoceti, Platanistidae, River dolphin

Submitted:10/12/2023, published online:21/03/2024. https://doi.org/10.18563/journal.m3.221

Inv nr.	Taxon	Description
MUSM 4017	*Pebanista yacuruna*	Holotype skull of Pebanista yacuruna MUSM 4017

Table 1. Related model. Collection : Departamento de Paleontologia de Vertebrados, Museo de Historia Natural UNMSM, Lima, Peru.

INTRODUCTION

This dataset features the skull of a sub-adult specimen of the Miocene river dolphin *Pebanista yacurtuna* featured in Benites-Palomino et al. (in rev.). This 3D model (see fig. 1 and table 1) was used as a complement to direct specimen observation to assess the cranial morphology of the new spp.

METHODS

The textureless surface scans were obtained using an Artec Eva structured- light scanner in combination with the software Artec Studio 12. The resulting 3D surface model is provided in .ply format, and can therefore be opened with a wide range of freeware.

BIBLIOGRAPHY

Benites-Palomino, A, G. Aguirre-Fernández, P. Baby, D. Ochoa, A. Altamirano, J. J. Flynn, M. Sanchez-Villagra, J. Tejada, C. de Muizon, R. Salas-Gismondi, 2024. The largest freshwater odontocete: a South Asian river dolphin relative from the Proto-Amazonia. Sciences Advances. https://doi.org/10.1126/sciadv.adk6320

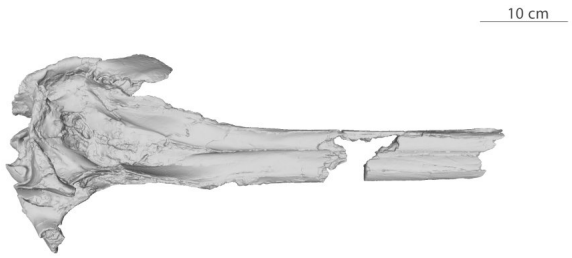

Figure 1. *Pebanista yacurunai* MUSM 4017 holotype skull in dorsal view