

# 3D surface model related to the publication: An Unusual new species of *Burmesescorpiops* Lourenço 2016 from Cretaceous Burmese amber (Scorpiones: Palaeoescorpiidae: Archaeoscorpioninae)

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## Abstract

In this contribution a third new species of the rare genus *Burmesescorpiops* Lourenço, 2016 is described. The discovery of this new element belonging to the family Palaeoescorpiidae Lourenço, 2003 and to the subfamily Archaeoscorpioninae Lourenço, 2015 brings further elements to support the validity of the genus *Burmesescorpiops*. This generic group remains however, poorly speciose. This is the latest discovery of *Burmesescorpiops wunpawng*, the name is derived from the Kachin Hilltribe peoples who are indigenous to the area. The data provided here is a 3D surface.

**Keywords:** Amber, Burmite, Cretaceous, Paleoarachnology, Scorpion

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## Inv nr.

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## Taxon

*Burmesescorpiops wunpawng*

**Table 1.** Provided 3D model. Collection: Kachin Amber Research Institute, Sumprabum, Myanmar.

## INTRODUCTION

In the Cretaceous period, the sticky tree resin of the Hukawng Valley, in Kachin State has created a marvelous window into this prehistoric period. Within one particular piece of amber, the discovery of *Burmesescorpiops wunpawng* was made in 2025 with the assistance of a Micro CT scan of the amber fossil, we have captured remarkable detail of the pectines and pedipalps of this ancient and extinct scorpion of a bygone era. The 3D surface mesh is derived from a Micro CT volume containing slice data acquired through a Bruker Skyscanner device (see Table 1 and Fig. 1).

## METHODS

The 3D surfaces were extracted semi-automatically within ORS Dragonfly using the segmentation threshold selection tool. The 3D surface models are provided in .ply format, and can therefore be opened with a wide range of freeware. Drishti v3.2.27.10.21

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## BIBLIOGRAPHY

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**Figure 1.** 3D rendering of *Burmesescorpiops wunpawng*