



# 3rd Palaeontological Virtual Congress

**Book of Abstracts**

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## 3<sup>rd</sup> Palaeontological Virtual Congress

Book of Abstracts

Palaeontology in the virtual era

From an original idea of Vicente D. Crespo

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## A NEW PHYTOSAUR FROM THE LATE TRIASSIC OF JAMESON LAND, GREENLAND

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### Keywords

*Mystriosuchus*, phylogeny, Malmros Klint, Norian, paleogeography

Phytosaur material from the Late Triassic Malmros Klint Formation of the Fleming Fjord Group (central East Greenland) comprises more than 150 disarticulated fossil bones of young, sub-adult and adult specimens belonging to at least four individuals, hosted in the Natural History Museum of Denmark (NHMD). The material was found in thin fluvial overbank sandstones interbedded with lacustrine mudstones. The absence of most skull bones, with only partial rostrum, posterior lower skull and a postorbital, allows only a preliminary phylogenetic analysis in TnT using OTUs (Operational Taxonomic Units) to facilitate comparisons between known and undetermined species, which nevertheless shows that the material probably belongs to a new species of the genus *Mystriosuchus* (supported by the presence of a narrow slit interpremaxillary fossa). This is the first *Mystriosuchus* confirmed outside of Europe, supporting the strong European faunal influence in East Greenland in the Late Triassic found before with other species of aetosaurs, temnospondyls and early dinosaurs. The mid-late Norian age range of the *Mystriosuchus* taxon provides an additional important age constraint on the vertebrate-bearing middle part of the Malmros Klint Formation.

