



THE UNIVERSITY *of* EDINBURGH

Edinburgh Research Explorer

The history, systematics, and nomenclature of *Thalattosuchia* (Archosauria: Crocodylomorpha)

Citation for published version:

Young, M, Wilberg, EW, Johnson, MM, Herrera, Y, De Andrade, MB, Brignon, A, Sachs, S, Abel, P, Foffa, D, Fernandez, M, Vignaud, P, Cowgill, T & Brusatte, S 2024, 'The history, systematics, and nomenclature of *Thalattosuchia* (Archosauria: Crocodylomorpha)', *Zoological Journal of the Linnean Society*, vol. 200, no. 2, pp. 547–617. <https://doi.org/10.1093/zoolinnea/zlad165>

Digital Object Identifier (DOI):

[10.1093/zoolinnea/zlad165](https://doi.org/10.1093/zoolinnea/zlad165)

Link:

[Link to publication record in Edinburgh Research Explorer](#)

Document Version:

Peer reviewed version

Published In:

Zoological Journal of the Linnean Society

General rights

Copyright for the publications made accessible via the Edinburgh Research Explorer is retained by the author(s) and / or other copyright owners and it is a condition of accessing these publications that users recognise and abide by the legal requirements associated with these rights.

Take down policy

The University of Edinburgh has made every reasonable effort to ensure that Edinburgh Research Explorer content complies with UK legislation. If you believe that the public display of this file breaches copyright please contact openaccess@ed.ac.uk providing details, and we will remove access to the work immediately and investigate your claim.



The history, systematics, and nomenclature of *Thalattosuchia*

(Archosauria: Crocodylomorpha)

MARK T. YOUNG^{FLS}^{1,2*}, ERIC W. WILBERG³, MICHELA M. JOHNSON⁴, YANINA HERRERA⁵, MARCO BRANDALISE DE ANDRADE^{6,7}, ARNAUD BRIGNON⁸, SVEN SACHS⁹, PASCAL ABEL¹⁰, DAVIDE FOFFA^{11,12}, MARTA FERNÁNDEZ⁵, PATRICK VIGNAUD¹³, THOMAS COWGILL¹ and STEPHEN L. BRUSATTE¹

¹ *School of GeoSciences, Grant Institute, The King's Buildings, University of Edinburgh, James Hutton Road, Edinburgh, EH9 3FE, United Kingdom*

² *LWL-Museum für Naturkunde, Sentruper Straße 285, 48161 Münster, Germany*

³ *Department of Anatomical Sciences, Stony Brook University, Stony Brook, NY 11794, USA*

⁴ *Staatliches Museum für Naturkunde, Rosenstein 1, 70191 Stuttgart, Germany*

⁵ *División Paleontología Vertebrados, Museo de La Plata, Facultad de Ciencias Naturales y Museo, Universidad Nacional de La Plata, B1900 La Plata, Buenos Aires, Argentina. Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)*

⁶ *Departamento de Diversidade e Ecologia, Faculdade de Biociências, Pontifícia Universidade Católica do Rio Grande do Sul, Av. Ipiranga 6681, Prédio 12, Porto Alegre, 90619-900, Brazil*

⁷ *Setor de Paleontologia, Museu de Ciências e Tecnologia, Pontifícia Universidade Católica do Rio Grande do Sul, Av. Ipiranga 6681, Prédio 40, Porto Alegre, 90619-900, Brazil*

⁸ *5, Villa Jeanne-d'Arc, 92340 Bourg-la-Reine, France*

⁹ *Naturkunde-Museum Bielefeld, Abteilung Geowissenschaften, Adenauerplatz 2, 33602 Bielefeld, Germany*

¹⁰ *Eberhard-Karls-University Tübingen, Fachbereich Geowissenschaften, Sigwartstraße 10, 72074 Tübingen, Germany*

¹¹ *Department of Geosciences, Virginia Tech, 4044 Derring Hall 926 West Campus Drive, Blacksburg 24061, Virginia, USA*

¹² *School of Geography, Earth and Environmental Sciences, University of Birmingham, Edgbaston, Birmingham B15 2TT, United Kingdom*

¹³ *Laboratoire de Paléontologie, Evolution, Paléoécosystèmes et Paléoprimateologie, CNRS UMR 7262, Department of Geosciences, University of Poitiers, 86073 Poitiers Cedex 9, France*

* Corresponding author: marktyoung1984@gmail.com

RUNNING HEAD: Thalattosuchian systematics and nomenclature

LSID

[To be added upon acceptance]

ACKNOWLEDGEMENTS

We are enormously grateful to S. Maidment, M. Day and L. Steel, (NHMUK) for providing generous specimen access, checking hard to find historical books, and arranging specimen photography. Collections visits by MTY were supported by the SYNTHESYS project (Paris: FR-TAF-4021, Stuttgart: DE-TAF-5132, Budapest: HU-TAF-6505). He thanks R. Allain (MNHN), R. Schoch and E. Maxwell (SMNS), D. Vasylian and M. Rabi (GPIT), and M. Gasparik and Z. Szentesi (MTM) for hosting his visits and specimen access. Pablo Goloboff is thanked for his help with TNT scripting and bug-squashing. We thank the reviewer and editor for their constructive feedback. The SYNTHESYS project is financed by the European Community Research Infrastructure Action, under the FP7 ‘Capacities’ programme. The University of Edinburgh crocodylomorph lab group has been supported by a Royal Society Research Grant (RG130018) and a Leverhulme Trust Research Project grant (RPG-2017-167). YH has been supported by Agencia Nacional de Promoción Científica y Tecnológica (PICT 2020-2067), CONICET (PIP 2284), and by a Humboldt Research Fellowship from the Alexander von Humboldt Foundation. The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript.