

Supplemental material

Institutional Abbreviations

NHMUK: The Natural History Museum, London, UK; **MGUH:** Museum Geologicum Universitatis Hafniensis, Kobenhavn, Denmark; **MNB:** Museum für Naturkunde, Berlin, Germany; **MNHN:** Muséum national d'Histoire naturelle, Paris, France; **MSNM:** Museo di Storia Naturale di Milano, Italy; **PIN:** Paleontological Institute, Moscow, Russian Federation; **SMNS:** Staatliches Museum für Naturkunde in Stuttgart, Germany; **UA:** Université d'Antananarivo, Madagascar.

Terminal taxa	Specimens	Literature
<i>Angusaurus</i> spp.	PIN 4196/1 4333/6, SMNS 81782	Getmanov 1989; Damiani and Yates, 2003
<i>Aphaneramma rostratum</i>	MNHN 20-IBSEN 1969, MNHN Rotunda 1964, MNHN St 62, MNHN Tr A 64	Säve-Söderbergh 1936, 1937; Welles 1993; Smith-Woodward 1904; Wiman 1916
<i>Aphaneramma kokeni</i>		Huene 1920; Welles, 1993
<i>Archegosaurus decheni</i>	MNB Am 114-119, 121-131, 137 MNHN 1868-1-4 1870-479-480, MNHN 1884-10, 21-25;	Gubin 1997; Jaekel 1896; Witzmann 2006
<i>Benthosuchus sushkini</i>	PIN 2424/4, PIN 2424/10, PIN 2-19-2252, PIN 2252/41	Bystrow and Efremov, 1940
<i>Cosgriffius campi</i>		Welles 1993
<i>Edingerella madagascariensis</i>	MNHN MAE3000-3009; MSNM V2992	Damiani 1998; Lehman 1961; Warren 1980; Maganuco et al. 2009; Steyer 2003
<i>Inflectosaurus amplus</i>		Jaekel 1922; Shishkin 1960; Novikov 2007
<i>Lyrocephaliscus euri</i>		Säve-Söderbergh 1935, 1936, 1937; Mazin and Janvier 1983
<i>Microposaurus casei</i>		Damiani 2004
<i>Onchiodon frossardi</i>	MNHN 1908-20-26	Werneburg and Steyer 1999
<i>Platystega depressa</i>		Säve-Söderbergh 1936; Wiman 1916

<i>Stoschiosaurus nielseni</i>	MGUH At. 6, 7, 9, 12, 23, 43, 45, 46	Säve-Söderbergh 1935
<i>Thoosuchus yakovlevi</i>	SMNS 58880	Damiani and Yates, 2003; Novikov, 2007
<i>Tertrema acuta</i>		Säve-Söderbergh 1936; Wiman 1916
<i>Trematolestes hagdorni</i>	SMNS 81790-91, SMNS 90022,	Schoch 2006
<i>Trematosaurus brauni</i>	BMNH 30270, 36354-75, 40042 MNB Am943 1/3 MNHN AC9573	Burmeister 1849; Drevermann 1920; Lehman 1966, 1979;
<i>Trematosuchus sobeyi</i>		Haughton 1915; Shishkin and Welman 1994
<i>Wantzosaurus elongatus</i>	MNHN MAE 3030, 3034;	Lehman 1961; Steyer 2002