

# Ichthyosauromorph taxonomy

Benjamin Moon

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ICHTHYOSAURIMORPHA Motani et al., 2015

HUPEHSUCHIA Carroll & Dong, 1991

*Eohupehsuchus brevicollis* Chen et al, 2014b

\* 2014b *Eohupehsuchus brevicollis* Chen et al.

p 4 [Jialingjiang Formation (Upper Spathian, Lower Triassic); Yangping, Yuan'an County, Hubei Province, China].

*Eretmorhipis carrolldongi* Chen et al., 2015

1991 Hupehsuchia n. g., n. s.

\* 2015 *Eretmorhipis carrolldongi* Chen et al.

p 143 [Jialingjiang Formation (Upper Spathian, Lower Triassic); Tuling, Baihechuan, Xunjian District, Nanzhang County, Hubei Province, China].

p 4 [Jialingjiang Formation (Upper Spathian, Lower Triassic); Yingzhishang, Yuan'an County, Hubei Province, China].

*Hupehsuchus nanchangensis* Young & Dong, 1972

*Nanchangosaurus suni* Wang, 1959

*Parahupehsuchus longus* Chen et al., 2014a

ICHTHYOSAURIFORMES Motani et al., 2015

*Acamptonectes densus* Fischer et al., 2012

v \* 2012 *Acamptonectes densus* Fischer et al., 2012

Fischer et al., p 3 [Speeton Clay Formation, *Simbiskites concinnus/staffi* ammonite biozones (basal-upper Hauterivian, Lower Cretaceous, Cretaceous); Speeton, Yorkshire, U.K. and Cremlingen, Lower Saxony, Germany.]

*Aegirosaurus leptospondylus* (Wagner, 1853)

\* 1853 *Ichthyosaurus leptospondylus* Wagner, 1853

2000 *Aegirosaurus leptospondylus* (Wagner, 1853)

Wagner, p [Solnhofen Formation (Lower Tithonian, Upper Jurassic, Jurassic); Germany.]

Bardet and Fernández, p 504 [Malm ζ 2b, Solnhofen Formation (early Lower Tithonian, Upper Jurassic, Jurassic); Borsheim, Schrandel quarry district; Bavaria, Germany.]

*Arthropterygius chrisorum* (Russell, 1993)

\* 1993 *Ophthalmosaurus chrisorum* Russell, 1993

? \* 2017 *Keilhauia nui* Delsett et al., 2017

p 2018 *Palvennia hoybergeti* Druckenmiller et al., 2012

2019 *Arthropterygius chrisorum* (Russell, 1993)

Russell, p 198 [Ringnes Formation (Oxfordian–Kimmeridgian, Upper Jurassic, Jurassic); Cape Grassy, Melville Island, Canada (UTM WGS84 12X 433220 8453461 = 76° 9' 4" N 113° 30' W).]

Delsett et al., p 7 [Slotsmøya Member, Agardfjellet Formation (early Berriasian, Lower Cretaceous, Cretaceous); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 0518847 8696044).] *fide* Zverkov and Prilepskaya (2019)

Delsett et al., p 8 [UTM WGS84 33X 0519622 8695649] PMO 222.669 *fide* Zverkov and Prilepskaya (2019)

Zverkov and Prilepskaya, p 15

*Arthropterygius hoybergeti* (Druckenmiller et al., 2012)

*	2012	<i>Palvennia hoybergeri</i> Druckenmiller et al., 2012	Druckenmiller et al., p 326 [Slottsmøya Member, Agardfjellet Formation (Middle Volgian, Upper Jurassic, Jurassic); Spitsbergen, Svalbard (UTM WGS84 33N 0518775 8696150).]
p	2018	<i>Palvennia hoybergeri</i> Druckenmiller et al., 2012	Delsett et al., p 8 [UTM WGS84 33X 0519622 8695649]
	2019	<i>Arthropterygius hoybergeri</i> (Druckenmiller et al., 2012)	Zverkov and Prilepskaya, p 31

*Arthropterygius lundi* (Roberts et al., 2014)

*	2014	<i>Janusaurus lundi</i> Roberts et al., 2014	Roberts et al., p 4 [Slottsmøya Member, Agardfjellet Formation (middle Volgian, Upper Jurassic, Jurassic); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 518821 8696195 = 78° 20.264' N 15° 50.044' E).] <i>vide</i> Zverkov and Prilepskaya (2019)
	2016	<i>Janusaurus lundi</i> Roberts et al., 2014	Delsett et al., p
	2017	<i>Janusaurus lundi</i> Roberts et al., 2014	Delsett et al., p
	2019	<i>Arthropterygius lundi</i> (Roberts et al., 2014)	Zverkov and Prilepskaya, p 40

*Athabascasaurus bitumineus* Druckenmiller and Maxwell, 2010

v *	2010	<i>Athabascasaurus bitumineus</i> Druckenmiller and Maxwell, 2010	Druckenmiller and Maxwell, p 1039 [Wabiskaw Member, Clearwater Formation (lowermost Albian, Lower Cretaceous, Cretaceous); 35 km north of Fort McMurray, Alberta, Canada (UTM WGS84 12V 459464 6317120 = 56° 59' 45" N 111° 40' 02" W).]
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*Barracudasauroides panxianensis* (Jiang et al., 2006)

*Besanosaurus leptorhynchus* Dal Sasso and Pinna, 1996

*Brachypterygius alekseevi* (Arkhangelsky, 2001)

*Brachypterygius extremus* (Boulenger, 1904)

v *	1904	<i>Ichthyosaurus extremus</i> Boulenger, 1904	Boulenger, p 425 [Kimmeridge Clay Formation (Kimmeridgian-Tithonia, Upper Jurassic, Jurassic); Smallmouth Sands, Weymouth, Dorset, U.K..]
v	1922	<i>Brachypterygius extremus</i> (Boulenger, 1904)	von Huene, p 97
v *	1976	<i>Grendelius mordax</i> McGowan, 1976	McGowan, p 671 [Kimmeridge Clay Formation, <i>Aulacostephanus autissiodorensis</i> Ammonite Biozone (middle Kimmeridgian, Upper Jurassic, Jurassic); Stowbridge, Norfolk, U.K. (UTM WGS84 31U 321960 5835045).]

*Brachypterygius pseudoscythica* (Efimov, 1998)

*Californosaurus perrini* (Merriam, 1902)

*Callawayia neoscapularis* (McGowan, 1994)

*Cartorhynchus lenticarpus* Motani et al., 2015

*Caypullisaurus bonapartei* Fernández, 1997

*Cetarthrosaurus walkeri* Seeley, 1873

*Chacaicosaurus cayi* Fernández, 1994

*Chaohusaurus chaoxianensis* (Chen, 1985)

*Chaohusaurus geishanensis* Young and Dong, 1972

*Chaohusaurus zhangjiawanensis* Chen et al., 2013

*Contectopalatus atavus* (Quenstedt, 1852)

*Cymbospondylus buchseri* Sander, 1989

*Cymbospondylus nichollsi* Fröbisch et al., 2006

*Cymbospondylus petrinus* Leidy, 1868

*Cymbospondylus piscosus?* Leidy, 1868

*Dearcmhara shawcrossi* Brusatte et al., 2015  
*Eurhinosaurus longirostris* (Mantell, 1851)  
*Excalibosaurus costini* McGowan, 1986  
*Gengasaurus nicosiai* Paparella et al., 2016  
*Grippia longirostris* Wiman, 1929  
*Guizhouichthyosaurus tangae* Yin et al., 2000  
*Guizhouichthyosaurus wolonggangense* (Chen et al., 2007)  
*Gulosaurus helmi* Cuthbertson et al., 2013  
*Hauffiopteryx typicus* Maisch, 2008  
*Himalayasaurus tibetensis* Young and Dong, 1972  
*Hudsonelpidia brevirostris* McGowan, 1995  
*Ichthyosaurus acutirostris* Owen, 1840  
*Ichthyosaurus anningae* Lomax and Massare, 2015  
*Ichthyosaurus breviceps* Owen, 1881  
*Ichthyosaurus communis* Conybeare, 1822  
*Ichthyosaurus conybeari* Lydekker, 1888  
*Ichthyosaurus larkini* Lomax and Massare, 2017  
*Ichthyosaurus somersetensis* Lomax and Massare, 2017  
*Isfordosaurus minor* (Wiman, 1910)  
*Leninia stellans* Fischer et al., 2014a  
*Leptonectes moorei* McGowan and Milner, 1999  
*Leptonectes solei* (McGowan, 1993)  
*Leptonectes tenuirostris* (Conybeare, 1822)  
*Macgowania janiceps* (McGowan, 1996)  
*Maiaspondylus lindoei* Maxwell and Caldwell, 2006  
*Malawania anachronus* Fischer et al., 2013  
*Mikadocephalus gracilirostris* Maisch and Matzke, 1997  
*Mixosaurus cornalianus* (Bassani, 1886)  
*Mixosaurus kuhnschneyderi* (Brinkmann, 1998)  
*Mixosaurus xindianensis* Chen and Cheng, 2010  
*Mollesaurus pariallus* Fernández, 1999  
*Muiscasaurus catheti* Maxwell et al., 2016

\* 2016 *Muiscasaurus catheti* Maxwell et al., 2016

Maxwell et al., p 61 [Arcillolitas abigarradas Member, Paja Formation (Barremian–Aptian, Lower Cretaceous, Cretaceous); Vereda Llanitos, Sachica, Boyaca, Colombia (UTM WGS84 18N 662860 616018 = 05° 34.278' N 73° 31.781' W).]

*Nannopterygius enthekiodon* (Hulke, 1871)

*Nannopterygius saveljeviensis* (Arkhangelsky, 1997)

*	1997	<i>Paraophthalmosaurus savejeviensis</i> Arkhangelsky, 1997	Arkhangelsky, p 88
*	1999b 2020	<i>Yasykovia kabanovi</i> Efimov, 1999b <i>Nannopterygius savejeviensis</i> (Arkhangelsky, 1997)	Efimov, p 98 Zverkov and Jacobs, p 246 [Volgian, Upper Jurassic, Jurassic.]

*Nannopterygius yasykovi* (Efimov, 1999b)

*	1999b	<i>Yasykovia sumini</i> Efimov, 1999b	Efimov, p 98
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*Ophthalmosaurus icenicus* Seeley, 1874

v *	1874	<i>Ophthalmosaurus icenicus</i> Seeley, 1874	Seeley, p 707 [Peterborough Member, Oxford Clay Formation (Callovian, Middle Jurassic, Jurassic); Peterborough, Cambridgeshire.]
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*Ophthalmosaurus natans* (Marsh, 1879)

*Parvinatator wapitiensis* Nicholls and Brinkman, 1995

*Pervushovisaurus bannovkensis* Arkhangelsky, 1998

*Pervushovisaurus campylodon* (Carter, 1846)

*	1846	<i>Ichthyosaurus campylodon</i> Carter, 1846	Carter, p 60 [Upper Greensand Formation (Albian–Cenomanian, Lower–Upper Cretaceous, Cretaceous); Cambridge, Cambridgeshire, U.K.]
	1922	<i>Myopterygius campylodon</i> (Carter, 1846)	von Huene, p 98
	1972	<i>Platypterygius campylodon</i> (Carter, 1846)	McGowan, p 17
	2016	<i>Pervushovisaurus campylodon</i> (Carter, 1846)	Fischer, p 8

*Pessopteryx nisseri* Wiman, 1910

*Phalarodon callawayi* Schmitz et al., 2004

*Phalarodon fraasi* Merriam, 1910

*Phalarodon major* von Huene, 1916

*Phantomosaurus neubigi* (Sander, 1997)

*Platypterygius hercynicus* Kuhn, 1946

*Platypterygius americanus* Nace, 1939

*	1939	<i>Myopterygius americanus</i> Nace, 1939	Nace, p 674 [Mowry Shale Member, Graneros Formation; Crook County Wyoming, U.S.A..]
	1968	<i>Myopterygius americanus</i> Nace, 1939	Romer, p 27 [Mowry Shale Member, Graneros Formation; Osage, Wyoming, U.S.A..]
	1972	<i>Platypterygius americanus</i> (Nace, 1939)	McGowan, p 17

*Platypterygius australis* (M'Coy, 1867)

*Platypterygius hauthali* (von Huene, 1927)

*Platypterygius ochevi* Arkhangelsky et al., 2008

*Platypterygius platydactylus* (Broili, 1907)

*Platypterygius sachicarum* Páramo, 1997

*Protoichthyosaurus applebyi* Lomax et al., 2017

*Protoichthyosaurus prosaxalis* Appleby, 1979

*Qianichthyosaurus xingyiensis* Yang et al., 2013

*Qianichthyosaurus zhoui* Li, 1999

*Quasianosteosaurus vikinghoegdai* Maisch and Matzke, 2003

*Sclerocormus parviceps* Jiang et al., 2016

*Shastasaurus alexandrae* Merriam, 1902

*Shastasaurus liangae* (Yin et al., 2000)

*Shastasaurus pacificus* Merriam, 1895

*Shastasaurus sikkaniensis* (Nicholls and Manabe, 2004)

*Shonisaurus popularis* Camp, 1976

*Simbirskiasaurus birjukovi* Otschev and Efimov, 1985

*Sisteronia seeleyi* Fischer et al., 2014b

*Stenopterygius aaleniensis* Maxwell et al., 2012

*Stenopterygius quadriscissus* (Quenstedt, 1858)

*Stenopterygius triscissus* (Quenstedt, 1858)

*Stenopterygius uniter* von Huene, 1931a

*Suevoleviathan disinteger* (von Huene, 1926)

*Suevoleviathan integer* (Bronn, 1844)

*Sveltonectes insolitus* Fischer et al., 2011

*Temnodontosaurus azerguensis* Martin et al., 2012

*Temnodontosaurus crassimanus* (Blake, 1876)

*Temnodontosaurus eurycephalus* McGowan, 1974

*Temnodontosaurus nuertingensis* (von Huene, 1931b)

*Temnodontosaurus platyodon* (Conybeare, 1822)

*Temnodontosaurus trigonus* (von Theodori, 1843)

*Thaisaurus chonglakmanii* Mazin et al., 1991

*Thalattoarchon saurophagis* Fröbisch et al., 2013

*Tholodus schmidi* von Meyer, 1849

*Toretocnemus californicus* Merriam, 1903

*Toretocnemus zitteli* (Merriam, 1903)

*Undorosaurus gorodischensis* Efimov, 1999a

\* 1999a *Undorosaurus gorodischensis* Efimov, 1999a

2012 *Cryopterygius kristiansenae* Druckenmiller et al., 2012

2019 *Undorosaurus gorodischensis* Efimov, 1999a

Efimov, p 52 [*Epivirgatites nikitini* Ammonite Biozone (Volgian, Upper Jurassic, Jurassic); Undory, Volga Oblast, Russia.]

Druckenmiller et al., p 313 [Slottsmøya Member, Agardfjellet Formation (middle Volgian, Upper Jurassic, Jurassic); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33N 0518842 8696067).] *vide* Zverkov and Efimov (2019)

Zverkov and Efimov, p 1189

*Undorosaurus kielanae* (Tyborowski, 2016)

*	2016	<i>Cryopterygius kielanae</i> Tyborowski, 2016	Tyborowski, p 793 [Sławno Limestone Member, Kcynia Formation (uppermost Lower Tithonian = Middle Volgian, Upper Jurassic, Jurassic); Owadów-Brzezinki Quarry, Sławno (UTM WGS84 34U 439831 5692022 = 51.3762583 N 20.1355167 E).] A test comment.
?	2019	<i>Undorosaurus kielanae</i> (Tyborowski, 2016)	Zverkov and Efimov, p 1187

*Undorosaurus nessovi* Efimov, 1999a

*Undorosaurus trautscholdi* Arkhangelsky and Zverkov, 2014

*Utatusaurus hataii* Shikama et al., 1978

*Wahlisaurus massarae* Lomax, 2016

*	2016	<i>Wahlisaurus massarae</i> Lomax, 2016	Lomax, p 388 [Barnstone Member?, Scunthorpe Mudstone Formation?, Pre-planorbis or <i>Psiloceras planorbis</i> beds (lowermost Hettangian, Lower Jurassic, Jurassic); Normanton Hills near Normanton on Soar, Nottinghamshire, U.K..]
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*Wimanius odontopalatus* Maisch and Matzke, 1998

*Xinminosaurus catactes* Jiang et al., 2008

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