

Ichthyosauromorph taxonomy

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Introduction

This document presents a list of valid ichthyosauromorph species. It is a constant work in progress given the pace at which new ichthyosaur research happens. Perhaps not as rapidly as some other fossil groups, but certainly fast enough to require some attention.

It’s also intended to give some handle on the vast literature available for ichthyosaurs and their near relatives by means of synonymy lists. I’ve chosen this format for it’s familiarity, but also because I rather enjoy the process and trials to building a complete yet usable synonymy list.

I’ve used this also as an exercise in typography – like much of my more public output. This document is typeset in Lua¹TeX using typefaces with various nice features – old style figures, small capitals, optical sizes. The fonts used are nonetheless open source, courtesy of their development at Adobe.

Layout of synonymy lists

The synonymy lists are presented as unruled tables:

Cartorhynchus lenticarpus Motani et al., 2015			
LSID: URN:LSID:ZOOBANK.ORG:ACT:FC999BB7-FD52-42F4-B2EC-B0B7E2A1CA32			
<status>	<year>	<Taxon> <Authority, Year>	<reference, page> [<occurrence information>.] <comments>
*	2015	Cartorhynchus lenticarpus Motani et al., 2015 LSID	Motani et al. p 485 [Upper Member, Nanlinghu Formation, Subcolumbites Ammonite Biozone (Olenekian, Lower Triassic, Triassic); Majishan Quarry, Chaohu City, Hefei, China (UTM WGS84 50R 577953 3499041 = 31° 37' 26" N 117° 49' 19" E).] LSID: URN:LSID:ZOOBANK.ORG:PUB:9CFFEE63-2B8A-4C01-B9C7-CD3C53D684F5

If a work names a new species or combination, the LSID of the act is included as a link button alongside the taxon name,¹ where this is available. Similarly all works that have publication LSIDs have those included too.

¹ i.e. [LSID](#)

‘Richter symbols’ & certainty of assignment

I’ve followed the recommendations of Matthews (1973), pretty much to the letter, for the symbols and styles included in the leftmost two columns.

In front of the year * (asterisk) this publication marks the name becoming valid under ICZN rules.

. (dot/period) we accept responsibility for attaching this reference to the taxon in question.

(no sign) we cannot responsibly attach this reference, but do not doubt it.

? (question mark) there is some doubt in attaching this reference to the current taxon.

v *vidimus*, we have checked the deposited specimens. Can be accompanied by the above tokens:

*v** we have seen the type specimen(s).

v. we take responsibility for attaching the deposited specimens.

v we do not take responsibility for attaching the deposited specimens.

v? the specimens cannot be certainly assigned to this taxon.

(?) the year of publication is uncertain.

p only part of the deposited specimens can be assigned to the current taxon.

vp the deposited specimens have been checked and only part of them belong to this taxon.

And by formatting the year 1881 (italicised) this work does not add morphological information, only occurrence information.

1881 (upright) the work adds to our knowledge on this taxon.

(1881) (parentheses surrounding the year) the date of this work is uncertain.

Life Science Identifiers (LSID)

*Life science identifiers*² are unique keys to identify and locate information important to the various life sciences. Relevant to this document are the identifiers used to link nomenclatural acts in *ZooBank*,³ the official registry of the International Commission on Zoological Nomenclature (ICZN). Naming new taxa in the recent literature requires registering the act in ZooBank to be ‘officially’ recognised.⁴

²<https://en.wikipedia.org/wiki/LSID>

³<http://zoobank.org>

⁴<https://en.wikipedia.org/wiki/ZooBank>

Many of the taxa included herein were named before ZooBank was yet a glint in anyone’s eye, although they may well have been included in the printed equivalent *Zoological Record*. I’ve registered several new publications and acts where these were not in ZooBank before, that may be used henceforth. At the moment, these include only the original naming of species, not new combinations of specific and generic names.

Links in this document

The L^AT_EX document from which this PDF is compiled includes the *hyperref* package to provide links within the document⁵ and to other ref-

⁵ e.g. citations and sections

erences on the web⁶. These have different colours, as follows:

⁶ e.g. LSIDs and DOIs

Citation links from the year of a citation to its reference in the bibliography.

URL often web links, particularly to websites, DOI links, LSID with the address fully written.

 link to a ZooBank LSID for an act.

ICHTHYOSAUIROMORPHA 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. p 143 [Jialingjiang Formation (Upper Spathian, Lower Triassic); Tuling, Baihechuan, Xunjian District, Nanzhang County, Hubei Province, China].
- * 2015 *Eretmorhipis carrolldongi* Chen et al. 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

ICHTHYOSAUIRIFORMES Motani et al., 2015

Acamptonectes densus Fischer et al., 2012

- URN:LSID:ZOOBANK.ORG:ACT:AAB4BA7E-F53D-4962-8A9C-3240DFE2C4D8
- 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.]
- LSID URN:LSID:ZOOBANK.ORG:PUB:66B3821A-1025-48DC-9C5F-7E6277FFD975

Aegirosaurus leptospondylus (Wagner, 1853)

- * 1853 *Ichthyosaurus leptospondylus* Wagner, 1853 Wagner [Solnhofen Formation (Lower Tithonian, Upper Jurassic, Jurassic); Germany.]
- 2000 *Aegirosaurus leptospondylus* (Wagner, 1853) Bardet and Fernández p 504 [Malm ζ 2b, Solnhofen Formation (early Lower Tithonian, Upper Jurassic, Jurassic); Borsheim, Schrandel quarry district; Bavaria, Germany.]

Acuetzpalin carranzai Barrientos-Lara et al., 2020

- URN:LSID:ZOOBANK.ORG:ACT:90130A25-6901-4DA6-84B8-D0680DF9BCAB
- * 2020 *Acuetzpalin carranzai* Barrientos-Lara et al., 2020 Barrientos-Lara et al. p 3 [La Casita Formation (Kimmeridgian, Upper Jurassic, Jurassic); Cerro de Palotes, near of Cuencamé, Durango state, Northeast Mexico.]
- 2020 LSID URN:LSID:ZOOBANK.ORG:PUB:2287DBB3-3E85-409D-9D97-A946DE865FCB

Arthropterygius chrisorum (Russell, 1993)

- * 1993 *Ophthalmosaurus 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).]
- ? 2017 *Keilhauia nui* Delsett et al., 2017 Delsett et al. p 7 [Slottsmøya Member, Agardfjellet Formation (early Berriasian, Lower Cretaceous, Cretaceous); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 0518847 8696044).] *fide* Zverkov and Prilepskaya (2019)
- p 2018 *Palvennia hoybergeti* Druckenmiller et al., 2012 Delsett et al. p 8 [UTM WGS84 33X 0519622 8695649] PMO 222.669 *fide* Zverkov and Prilepskaya (2019)
- 2019 *Arthropterygius chrisorum* (Russell, 1993) Zverkov and Prilepskaya p 15

Arthropterygius hoybergeti (Druckenmiller et al., 2012)

- URN:LSID:ZOOBANK.ORG:ACT:03BA5E23-17B5-4AB1-B98A-681B9968A3F9
- * 2012 *Palvennia hoybergeti* Druckenmiller et al., 2012 Druckenmiller et al. p 326 [Slottsmøya Member, Agardfjellet Formation (Middle Volgian, Upper Jurassic, Jurassic); Spitsbergen, Svalbard (UTM WGS84 33X 0518775 8696150).] URN:LSID:ZOOBANK.ORG:PUB:8791DF9D-E15B-4470-A02A-F05ECC3BB7D6

- p 2018 *Palvennia hoybergeri* Druckenmiller et al., 2012 Delsett et al. p 8 [UTM WGS84 33X 0519622 8695649]
 2019 *Arthropterygius hoybergeri* (Druckenmiller et al., 2012) Zverkov and Prilepskaya p 31

Arthropterygius lundii (Roberts et al., 2014)

URN:LSID:ZOOBANK.ORG:ACT:71E65B35-7215-44AA-BCE7-E9A3B265E04F

- * 2014 *Janusaurus lundii* Roberts et al., 2014 **LSID** 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).] URN:LSID:ZOOBANK.ORG:PUB:FF4834F1-AEED-4B08-8E74-7125801C1B3E *fide* Zverkov and Prilepskaya (2019)
 2016 *Janusaurus lundii* Roberts et al., 2014 Delsett et al.
 2017 *Janusaurus lundii* Roberts et al., 2014 Delsett et al.
 2019 *Arthropterygius lundii* (Roberts et al., 2014) Zverkov and Prilepskaya p 40

Arthropterygius thalassonotus Campos et al., 2019

- * 2019 *Arthropterygius thalassonotus* Campos et al., 2019 Campos et al. p 184 [Vaca Muerta Formation (late Tithonian, Upper Jurassic, Jurassic); Yesera del Tromen–Pampa Tril area, north-western Neuquén Province, Argentina.] URN:LSID:ZOOBANK.ORG:PUB:A668AA96-CE4F-442E-AD3E-B757AD580CFC

Athabascasaurus bitumineus Druckenmiller and Maxwell, 2010

- v * 2010 *Athabascasaurus bitumineus* 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).]

Barracudasauroides panxianensis (Jiang et al., 2006)

- * 2006 *Mixosaurus panxianensis* Jiang et al., 2006 Jiang et al. p 62 [Upper Member, Guanling Formation, *Nicoraella germanicus* Conodont Biozone (Pelsonian, Anisian, Middle Triassic, Triassic); Yangjuan Village, Xinmin District, Panxian County, Guizhou Province, China.]
 2010 *Barracudasauroides panxianensis* (Maisch, 2010) Maisch p 161

Besanosaurus leptorhynchus Dal Sasso and Pinna, 1996

- * 1996 *Besanosaurus leptorhynchus* Dal Sasso and Pinna, 1996 Dal Sasso and Pinna p 4 [Besano Formation, *Nevadites secedensis* Ammonite Biozone (Ilyrian, Anisian, Middle Triassic, Triassic); Sasso Caldo quarry, Besano, Varese Province, Lombardy, Northern Italy.]

Brachypterygius alekseevi (Arkhangelsky, 2001)

- * 2001 *Otschevia alekseevi* Arkhangelsky, 2001 Arkhangelsky p 629 [*Dorsoplanites panderi* Ammonite Biozone (Volgian, Upper Jurassic, Jurassic); Volga River, 18 km north of Ulyanovsk, Ulyanovsk District, Ulyanovsk Region, Russian.]
 2010 *Brachypterygius alekseevi* (Arkhangelsky, 2001) Maisch p 167
 2015 *Grendelius alekseevi* (Zverkov et al., 2015) Zverkov et al. p 562

Brachypterygius extremus (Boulenger, 1904)

URN:LSID:ZOOBANK.ORG:ACT:5B04A1AF-9081-417D-9BFC-DC3AFA6DAAE3

- v * 1904 *Ichthyosaurus extremus* Boulenger, 1904 **LSID** Boulenger p 425 [Kimmeridge Clay Formation (Kimmeridgian–Tithonian, Upper Jurassic, Jurassic); Smallmouth Sands, Weymouth, Dorset, U.K.]
 URN:LSID:ZOOBANK.ORG:PUB:98E5CD50-9FAF-458D-9D0A-9464EF76F429
 v 1922 *Brachypterygius extremus* (Boulenger, 1904) von Huene p 97 URN:LSID:ZOOBANK.ORG:PUB:2E316B82-8A25-43AE-A1C5-3785124EA6AE
 v * 1976 *Grendelius mordax* McGowan, 1976 McGowan p 671 [Kimmeridge Clay Formation, *Aulacostephanus autissiodorensis* Ammonite Biozone (middle Kimmeridgian, Upper Jurassic, Jurassic); Stowbridge, Norfolk, U.K. (UTM WGS84 31U 321960 5835045).]

Brachypterygius pseudoscythica (Efimov, 1998)

- * 1998 *Otschevia pseudoscythica* Efimov, 1998 Efimov p 83 [*Ilowaiskyia pseudoscythica* Ammonite Biozone (Volgian, Upper Jurassic, Jurassic); Volga River, Ulyanovsk District, Ulyanovsk Region, Russia.]
- 2000 *Brachypterygius pseudoscythius* (Efimov, 1998) Maisch and Matzke p 79
[sic.]
- 2015 *Grendelius pseudoscythicus* (Efimov, 1998) Zverkov et al. p 561
[sic.]

Californosaurus perrini (Merriam, 1902)


- * 1902 *Shastasaurus perrini* Merriam, 1902 Merriam p 89 [Hosselkus Limestone Formation; Shasta County, California, U.S.A.]
- 1905 *Delphinosaurus perrini* (Merriam, 1902) Merriam p 24
- 1934 *Californosaurus perrini* (Merriam, 1902) Kuhn p 27 [*non Delphinosaurus* Eichwald, 1853]

Callawayia neoscapularis (McGowan, 1994)

- * 1994 *Shastasaurus neoscapularis* McGowan, 1994 McGowan p 170 [Pardonet Formation, *Epigondolella triangularis* Conodont Biozone (Norian, Upper Triassic, Triassic); Peace Reach, Williston Lake, British Columbia, Canada.]
- 2000 *Callawayia neoscapularis* (McGowan, 1994) Maisch and Matzke p 69 New combination takes priority over *Metashastasaurus* (Nicholls and Manabe, 2001, p. 1001).
- 2001 *Metashastasaurus neoscapularis* (McGowan, 1994) Nicholls and Manabe p 985 [Pardonet Formation (Norian, Upper Triassic, Triassic); Chicken Creek, British Columbia, Canada.]

Cartorhynchus lenticarpus Motani et al., 2015

URN:LSID:ZOOBANK.ORG:ACT:FCCC9BB7-FD52-42F4-B2EC-B0B7E2A1CA32

- * 2015 *Cartorhynchus lenticarpus* Motani et al., 2015 Motani et al. p 485 [Upper Member, Nanlinghu Formation, *Subcolumbites* Ammonite Biozone (Olenekian, Lower Triassic, Triassic); Majishan Quarry, Chaohu City, Hefei, China (UTM WGS84 50R 577953 3499041 = 31° 37' 26" N 117° 49' 19" E).]
 [URN:LSID:ZOOBANK.ORG:PUB:9CFFEE63-2B8A-4C01-B9C7-CD3C53D684F5](https://zoobank.org/9CFFEE63-2B8A-4C01-B9C7-CD3C53D684F5)

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 nicholli 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)

URN:LSID:ZOOBANK.ORG:ACT:8467F95F-AC53-4EA7-9612-230E9222A6FC

v * 1871 *Ichthyosaurus enthekiodon* Hulke, 1871  Hulke p 441 [Kimmeridge Clay Formation (Kimmeridgian-Tithonian, Upper Jurassic, Jurassic); Kimmeridge Bay, Dorset, U.K.] URN:LSID:ZOOBANK.ORG:PUB:4F0E90D0-27FF-409A-9CD5-976F182B8B4C
1922 *Nannopterygius enthekiodon* (Hulke, 1871) von Huene p 98 URN:LSID:ZOOBANK.ORG:PUB:2E316B82-8A25-43AE-A1C5-3785124EA6AE

Nannopterygius saveljeviensis (Arkhangelsky, 1997)

* 1997 *Paraophthalmosaurus savejeviensis* Arkhangelsky, 1997 Arkhangelsky p 88
1999b *Yasykovia kabanovi* Efimov, 1999b Efimov p 98

2020 *Nannopterygius savejeviensis* (Arkhangelsky, 1997) Zverkov and Jacobs p 246 [Volgian, Upper Jurassic, Jurassic.]

Nannopterygius yasykovi (Efimov, 1999b)

* 1999b *Yasykovia sumini* Efimov, 1999b Efimov p 98

Ophthalmosaurus icenicus Seeley, 1874

URN:LSID:ZOOBANK.ORG:ACT:F598EAB9-08BF-44CF-BBF3-BB940BD24DBE

v * 1874 *Ophthalmosaurus icenicus* Seeley, 1874 **LSID** Seeley p 707 [Peterborough Member, Oxford Clay Formation (Callovian, Middle Jurassic, Jurassic); Peterborough, Cambridgeshire.]
URN:LSID:ZOOBANK.ORG:PUB:4C83C9B2-665D-4AD7-8AF8-D365E5491831

Ophthalmosaurus natans (Marsh, 1879)

Parvinatator wapitiensis Nicholls and Brinkman, 1995

Pervushovisaurus bannovkensis Arkhangelsky, 1998

Pervushovisaurus campylodon (Carter, 1846)

* 1846 *Ichthyosaurus campylodon* Carter, 1846 Carter p 60 [Upper Greensand Formation (Albian–Cenomanian, Lower–Upper Cretaceous, Cretaceous); Cambridge, Cambridgeshire, U.K.]
1922 *Myopterygius campylodon* (Carter, 1846) von Huene p 98 URN:LSID:ZOOBANK.ORG:PUB:2E316B82-8A25-43AE-A1C5-3785124EA6AE
1972 *Platypterygius campylodon* (Carter, 1846) McGowan p 17
2016 *Pervushovisaurus campylodon* (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 *Myopterygius americanus* Nace, 1939 Nace p 674 [Mowry Shale Member, Graneros Formation; Crook County Wyoming, U.S.A.]
1968 *Myopterygius americanus* Nace, 1939 Romer p 27 [Mowry Shale Member, Graneros Formation; Osage, Wyoming, U.S.A.]
1972 *Platypterygius americanus* (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)

1922 *Platypterygius platydactylus* (Broili, 1907) von Huene p 99 URN:LSID:ZOOBANK.ORG:PUB:2E316B82-8A25-43AE-A1C5-3785124EA6AE

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 *Cryptopterygius kristiansenae* Druckenmiller et al., 2012 [LSID](#)
- 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 [Slotsmøya Member, Agardfjellet Formation (middle Volgian, Upper Jurassic, Jurassic); Janusfjellet, Spitsbergen, Svalbard (UTM WGS84 33X 0518842 8696067).] [URN:LSID:ZOOBANK.ORG:PUB:8791DF9D-E15B-4470-A02A-F05ECC3BB7D6](#) fide Zverkov and Efimov (2019)

Zverkov and Efimov p 1189

Undorosaurus kielanae (Tyborowski, 2016)

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

Undorosaurus nessovi Efimov, 1999a

Undorosaurus trautscholdi Arkhangelsky and Zverkov, 2014

Utatsusaurus hataii Shikama et al., 1978

Wahlisaurus massarae Lomax, 2016

- * 2016 *Wahlisaurus massarae* Lomax, 2016 Lomax p 388 [Barnstone Member?, Scunthorpe Mudstone Formation?, Pre-*planorbis* or *Psiloceras planorbis* beds (lowermost Hettangian, Lower Jurassic, Jurassic); Normanton Hills near Normanton on Soar, Nottinghamshire, U.K.]

Wimanius odontopalatus Maisch and Matzke, 1998

Xinminosaurus catactes Jiang et al., 2008

References

- Appleby, R. M. (1979). 'The Affinities of Liassic and Later Ichthyosaurs'. In: *Palaeontology* 22.4, pp. 921–946.
- Arkhangelsky, M. S. (1997). 'On a new genus of ichthyosaurs from the Lower Volgian Substage of the Saratov, Volga Region'. In: *Paleontologicheskii Zhurnal* 1997.1, pp. 87–91.
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