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Revised 8 June 2023 🖃 COMMENTS

Order CLUPEIFORMES

Gizzard Shads and Sardinellas Family DOROSOMATIDAE Bleeker 1872



Anodontostoma chacunda (as Clupanodon chanpole, a simultaneous synonym with precedence given to chacunda). Hamilton's original illustration, unpublished at the time, reproduced in: Britz, R. 2019. Francis Hamilton's Gangetic Fishes in colour. A new edition of the 1822 monograph, with reproductions of unpublished coloured illustrations. Ray Society, London: 1–48, i–vii, 1–405, i–vii, Pls. 1–228.

Amblygaster

Bleeker 1849

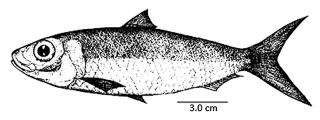
amblýs (Gr. ἀμβλύς), blunt; gastér (Gr. γαστήρ), belly or stomach, referring to obtuse, round and smooth (unserrated) belly ("ventre obtuso rotundata non serrato") of A. clupeoides

Amblygaster clupeoides Bleeker 1849 -oides, Latinized suffix adopted from eidos (Gr. εἶδος), form or shape: clupea, Latin vernacular for a herring-like fish, possibly referring to Clupea, which at the time was a catch-all genus for many herring-like fishes

Amblygaster indiana Mary, Balasubramanian, Selvaraju & Shiny 2017 -ana (L.), belonging to: India, type specimens collected at fish landing centers and fish markets at Eraviputhenthurai, west coast of India

Amblygaster leiogaster (Valenciennes 1847) *leios* (Gr. λεῖος) smooth; *gastḗr* (Gr. γαστήρ), belly or stomach, referring to less prominent belly scutes compared with *Sardinella aurita*, its presumed congener at the time

Amblygaster sirm (Walbaum 1792) Arabic vernacular for this herring along the Red Sea



Amblygaster indiana, holotype, 21 cm SL. From: Mary, A. A., T. Balasubramanian, S. Selvaraju and A. Shiny. 2017. Description of a new species of clupeid fish, Amblygaster indiana (Clupeiformes: Clupeidae), off Eraviputhenthurai, west coast of India. Zootaxa 4247 (4): 461–468.

Anodontostoma Bleeker 1849

án- (Gr. ἄν-), without; odontos, Latinized and grammatically adjusted from the Greek nominative ὀδούς (odoús), tooth; stóma (Gr. στόμα), mouth, presumably referring to toothless mouth

Anodontostoma chacunda (Hamilton 1822) local Indian vernacular for this shad

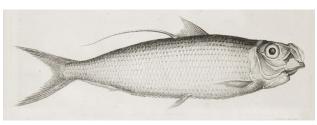
Anodontostoma selangkat (Bleeker 1852) from *Ikan Selangkat*, local name in Jakarta (formerly Batavia), Indonesia (*Ikan* = fish)

Anodontostoma thailandiae Wongratana 1983 of Thailand, referring to Gulf of Thailand, type locality (Wongratana believes this is first use of name *thailandiae* in ichthyological literature, all previous references to country being styled as *siamensis* and variations thereof)

Clupanodon

Lacepède 1803

clupea, Latin vernacular for a herring-like fish; án- (Gr. ἄν-), without; odon, Latinized and grammatically adjusted from the Greek nominative οδούς (odoús), tooth, referring to toothless vomer compared with toothed vomer of Clupea (Clupeidae), its original genus



"Cailleu-Tassart," possibly first-published image of *Clupanodon thrissa*. Engraving by Angélique Moitte. From: Duhamel du Monceau, H. L. 1777-1782. Traité général des pèches, et histoire des poissons, ou les animaux qui vivent dans l'eau, seconde partie. Saillant & Nyon, Paris. Tome 3. Paris. 1–406, Pls. 1–28. [Plate dates to Section 10, published after 25 Mar. 1781.]

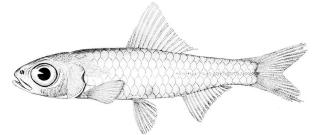
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Clupanodon thrissa (Linnaeus 1758) thrissa (Gr. $\theta \rho(\sigma \sigma \alpha)$, a kind of anchovy, possibly related to *thrix* ($\theta \rho(\xi)$, hair, referring to hair-like bones, but in this case probably referring to filamentous dorsal-fin ray [specific name coined by Swedish explorer Pehr Osbeck in his 1757 journal of his voyage to China¹]

Congothrissa Poll 1964

Congo, referring to Congo River, type locality; *thríssa* (Gr. θρίσσα), a kind of anchovy, possibly related to *thrix* (Gr. θρίξ), hair, referring to the anchovy's hair-like bones, often used as a standard suffix for clupeiform fishes (literally, the Congo Anchovy)

Congothrissa gossei Poll 1964 in honor of Jean-Pierre Gosse (1924–2001), curator of vertebrates, Institut Royal des Sciences Naturalles de Belgique, who discovered this clupeid and recognized its distinctiveness despite small size and "benign appearance" (translation)



Congothrissa gossei, overall figure combined with the help of paratypes. From: Poll, M. 1964. Une famille dulcicole nouvelle de poissons africains: les Congothrissidae. Académie Royal des Sciences Natureles et Médicales, Bruxelles (N. S.). 5 (2): 1–40, Pls. 1–8.

Dorosoma Rafinesque 1820

dóratos (Gr. δόρατος), genitive of dóry (δόρυ), lance or spear; sóma (Gr. σῶμα), referring to "lanceolate" body of *D. notata* (= cepedianum), "tapering gradually towards the tail"

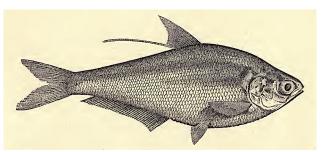
Subgenus Dorosoma

Dorosoma anale Meek 1904 Latin (neuter) for anal, referring to its long anal fin

Dorosoma cepedianum (Lesueur 1818) -anum (L., neuter), belonging to: Bernard-Germain-Étienne de La Ville-sur-Illon, comte de [count of] La Cepède (also spelled as La Cépède, Lacépède, or Lacepède, 1756– 1825), whose five-volume *Histoire Naturelle des Poissons* (1798–1803) was the standard ichthyological reference of his day; Lesueur may have honored his fellow countryman for having proposed the tarpon genus *Megalops*, into which this species was originally assigned

Dorosoma chavesi Meek 1907 in honor of Dioclesiano Chaves (1844– 1936), taxidermist, National Museum of Nicaragua, for his assistance in collecting in Lakes Tiscapa and Managua

Dorosoma smithi Hubbs & Miller 1941 in honor of Hugh M. Smith (1865–1941), "worthy colleague of such masters as Jordan and Gilbert and Evermann," all members of America's "greatest school of ichthyologists"



Dorosoma anale. From: Meek, S. E. 1904. The fresh-water fishes of Mexico north of the isthmus of Tehuantepec. Field Columbian Museum, Zoölogical Series 5: i–lxiii + 1–252, Pls. 1–17.

Subgenus *Signalosa* Evermann & Kendall 1898

signum (L.), flagstaff or pole (per the authors), referring to long dorsalfin ray of S. atchafalayae (=D. petenense); alosa, from alausa, Latin name for Alosa alosa (Alosidae) from the river Moselle in Germany, now used as a general suffix for shads and herrings

Dorosoma petenense (Günther 1867) -*ense*, Latin suffix (neuter) denoting place: Lake Petén (now Petén Itzá), Guatemala, type locality

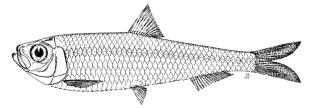
Escualosa

Whitley 1940

etymology not explained, perhaps *escu-*, from *esculentus* (L.), edible, referring to fisheries importance of *E. macrolepis* (*=thoracata*); *alosa*, from *alausa*, Latin name for *Alosa alosa* (Alosidae) from the river Moselle in Germany, now used as a general suffix for shads and herrings

Escualosa elongata Wongratana 1983 Latin for prolonged, referring to its slenderer body compared with *E. thoracata*

Escualosa thoracata (Valenciennes 1847) Latin for armed with a breastplate, referring to spines or serrations on abdomen



Escualosa elongata, holotype, 64.5 mm SL. Illustration by Thosaporn Wongratana. From: Wongratana, T. 1983. Diagnoses of 24 new species and proposal of a new name for a species of Indo-Pacific clupeoid fishes. Japanese Journal of Ichthyology 29 (4): 385–407.

Ethmalosa Regan 1917

ēthmós (Gr. ἡθμός), sieve or strainer, referring to its fine and numerous gill rakers, which filter phytoplankton from the water; alosa, from alausa, Latin name for Alosa alosa (Alosidae) from the river Moselle in Germany, now used as a general suffix for shads and herrings

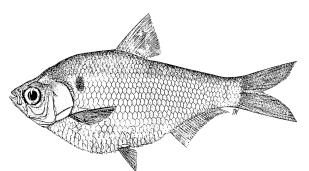
Ethmalosa fimbriata (Bowdich 1825) Latin for fringed, referring to its fringed scales, "which makes the fish have a very peculiar appearance" [see essay on next page]

Gonialosa Regan 1917

gōnía (Gr. γωνία), corner or angle, allusion not explained, perhaps referring to angular mouth clefts of *G. manmina* and *G. modesta; alosa,* from *alausa*, Latin name for *Alosa alosa* (Alosidae) from the river Moselle in Germany, now used as a general suffix for shads and herrings

Gonialosa manmina (Hamilton 1822) presumably a local Bengali name, as it was Hamilton's practice to derive trivial names "from some of those used by the natives of India" (sometimes spelled manminna)

Gonialosa modesta (Day 1870) Latin for moderate, modest or unassum-



Gonialosa whiteheadi, holotype, 68.5 mm SL. Illustration by Thosaporn Wongratana. From: Wongratana, T. 1983. Diagnoses of 24 new species and proposal of a new name for a species of Indo-Pacific clupeoid fishes. Japanese Journal of Ichthyology 29 (4): 385–407.

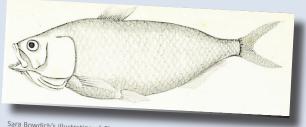
¹ Osbeck, Pehr. 1757. Dagbok öfwer en Ostindisk resa åren 1750, 1751, 1752, med anmårknigar uti naturkunnigheten, fråmmande folkslags språk. Stockholm: Ludv. Grefing. Translated into German (1765) and English (1771).

Sarah Bowdich, the first woman to scientifically describe a new species of fish

Sarah Bowdich was born Sarah Wallis in England in 1791. In 1813, she married naturalist Thomas Edward Bowdich. They seemed the perfect couple, both attracted to nature, travel and adventure. In Paris, they befriended the zoologist (and important early ichthyologist) Georges Cuvier, spending the better part of four years learning what they could from the famous naturalist. In 1823, Sarah and Thomas explored Madeira, the archipelago southwest of mainland

Portugal. From there they sailed to Africa, arriving at Bathurst (now Banjul), Gambia, planning to go to Sierra Leone and explore the interior. This leg of the journey never happened. Thomas died from malaria while in Bathurst on 10 January 1824, leaving Sarah a widow with three children.

In March 1825, Sarah published her husband's account of the Madeira trip. She appended the account with three entries penned by herself, including one called "Zoological, Meteorological, and Barometric Observations" under the byline "Mrs. Bowdich." (At that time, in order to be taken seriously, a woman had to either publish under a male pseudonym, adopt a non-



Sara Bowdich's illustration of *Clupea* (now *Ethmalosa*) *fimbriata*. From: Bowdich, S. L. 1825. Fishes of Madeira. *In*: T. E. Bowdich. Excursions in Madeira and Porto Santo during the autumn of 1823, while on his third voyage to Africa. London. i–xii + 1–278, 11 pls. + 10 pls.

gender specific initial, e.g., S. Bowdich, or else be recognized as the "Mrs." — and thereby the extension of — a noteworthy man.) Here Sarah described and named 27 fishes brought to her by fishermen. Eight of her species remain valid today, representing the first new fish species described by a woman:

Blue Jack Mackerel, *Trachurus picturatus* Bonga Shad, *Ethmalosa fimbriata* Bobo Croaker, *Pseudotolithus elongatus* Bastard Grunt, *Pomadasys incisus* Offshore Rockfish, Pontinus kuhlii Cape Verde Mullet, Chelon bispinosus Guinean Grunt, Parapristipoma humile Blackbar Hogfish, Bodianus speciosus

No verifiable image of Sarah Bowdich is known to exist. One wonders if her portrait was ever painted, or if she ever sat for a daguerreotype. Shown here is *Ethmalosa fimbriata* from her Madeira descriptions, illustrated by Sarah herself.

After the death of her husband, Sarah returned to Paris and to Cuvier, who served as her mentor. Thanks to this partnership, she was able to study collections and libraries that few other women of her time were permitted to access. Sarah published several more books on natural history, including a work on taxidermy, a biography of Cuvier, and a beautifully illustrated guide to *The Fresh-Water Fishes of Great Britain* (1828-1838), as "Mrs T. Edward Bowdich." Sarah spent 10 years on this book, carefully drawing and painting each fish fresh from the water before its colors faded. Unfortunately, the book was largely ignored by others in the field because it was by a woman.

Sarah Bowdich remarried and in subsequent years published — per Victorian mores — under the name "Mrs. Robert Lee." In 1917, American ichthyologist David Starr Jordan, in his *Genera of Fishes*, credited Thomas Edward Bowdich as the author of the Madeira fishes.

Sarah Bowdich died in 1856.

ing, allusion not explained, perhaps referring to its snout "moderately projecting over the lower jaw" and/or its "uniform" coloration

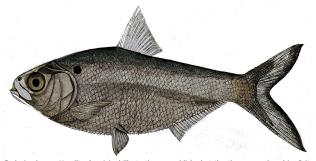
Gonialosa whiteheadi Wongratana 1983 in honor of ichthyologist Peter J. P. Whitehead (1930–1993), British Museum (Natural History), who encouraged Wongratana to make Indo-Pacific clupeoids the subject of his thesis

Gudusia Fowler 1911

from *Gudusa*, a "native name" in India, presumably of the type species, *G. chapra;* spelled *Gudua* in Odissa (now Odisha), India²

Gudusia chapra (Hamilton 1822) probably referring to Chapra District (also known as Saran), Bihar, India, type locality

Gudusia variegata (Day 1870) Latin for "of different sorts" (particularly colors), referring to its combination of colors and markings: silvery glossed with gold, a dark humeral spot, ~18 dorsal saddles, black band on lower posterior half of dorsal fin, and black tips on end of tail



Gudusia chapra. Hamilton's original illustration, unpublished at the time, reproduced in: Britz, R. 2019. Francis Hamilton's Gangetic Fishes in colour. A new edition of the 1822 monograph, with reproductions of unpublished coloured illustrations. Ray Society, London: 1–48, i–vii, 1–405, i–vii, Pls. 1–228.

 $^{^2}$ Talwar, P. K. and A. G. Jhingran. 1991. Inland fishes of India and adjacent countries. 2 vols. Oxford & IBH Publishing Co., New Delhi, Bombay, Calcutta. i–xvii + 36 unnumbered + 1–1158, 1 pl, 1 map.

Harengula

Valenciennes 1847

diminutive of *harengus*, Medieval Latin for herring [see *Clupea harengus*, Clupeidae, for a detailed etymology], i.e., similar to herrings but distinguished by the absence of vomerine teeth

Harengula clupeola (Cuvier 1829) diminutive of Clupea (Clupeidae, original genus), perhaps reflecting its 18th-century French vernacular "Petit Cailleu"



Moitte. From: Duhamel du Monceau, H. L. 1777-1782. Traité général des pêches, et histoire des poissons, ou les animaux qui vivent dans l'eau, seconde partie. Saillant & Nyon, Paris. Tome 3. Paris. 1–406, Pls. 1–28. [Plate dates to Section 10, published after 25 Mar. 1781.]

Harengula humeralis (Cuvier 1829) Latin for humeral, referring to silvery, dark humeral spot (in the area analogous to the humerus, or shoulder) seen on many specimens

Harengula jaguana Poey 1865 -ana (L.), belonging to: "bahía de Jagua" (bay of Jagua, but likely a port on the Bay of Cienfuegos), Cuba, presumed type locality (no type specimens are known)

Harengula thrissina (Jordan & Gilbert 1882) diminutive of thrissa (Gr. $\theta p (\sigma \sigma \alpha)$, a kind of anchovy, possibly derived from thrix, hair, referring to the anchovy's hair-like bones (but used here as a general term for herring or shad) [thrissina may intentionally mirror the construction of the name of its closest congener, *H. clupeola*]

Harengula thrissina peruana Fowler & Bean 1923 - ana (L.), belonging to: Peru, referring to Callao, Peru, type locality

Herklotsichthys

Whitley 1951

Herklots + *ichthýs* (Gr. iχθύς), fish: replacement name for *Herklotsella* Fowler 1934, preoccupied by *Herklotsella* Herre 1933 (=*Pterocryptis*, Siluridae), originally named for Fowler's friend, botanist and ornithologist G. A. C. Herklots (1902–1986), University of Hong Kong, "with many fond memories of the China Sea and Java"

Herklotsichthys blackburni (Whitley 1948) in honor of Australian marine biologist Maurice Blackburn (1915–2012), for his work on the bionomics of Australian clupeoids; he discovered this species but placed his specimens and notes at Whitley's disposal

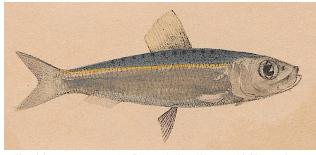
Herklotsichthys castelnaui (Ogilby 1897) patronym not identified but clearly in honor of French naturalist François Louis Nompar de Caumont La Force, comte de [count of] Castelnau (1810–1880), who published several papers on Australian fishes in the 1870s

Herklotsichthys collettei Wongratana **1987** in honor of American ichthyologist Bruce B. Collette (b. 1934), Director, National Marine Fisheries Service Systematics Laboratory, for his "hospitality, encouragement, and interest" in Wongratana's work on Indo-Pacific clupeoid fishes

Herklotsichthys dispilonotus (Bleeker 1852) δ_ℓ- (Gr. prefix), derived from dýo (δύο), two; spílos (Gr. σπίλος), mark or spot; nótos (Gr. νότος), back, referring to two dark blotches on back, one at posterior end of dorsal fin base and the other a short distance behind

Herklotsichthys gotoi Wongratana **1983** in honor of entomologist H. E. Goto, Imperial College, University of London, director of Wongratana's studies in London

Herklotsichthys koningsbergeri (Weber & de Beaufort 1912) in honor of Jacob Christian Koningsberger (1867-1951), Dutch biologist and politician, "distinguished" director of 's Lands Plantentuin (National Botanical Garden), Buitenzorg, Java, who sent holoype to the authors ["s" is a Dutch abbreviation meaning "of the" or "in the"]



Herklotsichthys punctatus. From: Rüppell, W. P. E. S. 1835-1838. Neue Wirbelthiere zu der Fauna von Abyssinien gehörig. Fische des Rothen Meeres. Frankfurt-am-Main. 1–148, Pls. 1–33. [Description and plate published in 1837.]

Herklotsichthys lippa (Whitley 1931) etymology not explained, perhaps lippus (L.), bleary-eyed or dim-sighted, referring to adipose lids on eyes

Herklotsichthys lossei Wongratana 1983 in honor of German biologist and fishery officer Georg F. Losse, who collected most of the type material, and for his "most useful" studies of East African clupeoids

Herklotsichthys ovalis (Anonymous [Bennett] 1830) Latin for oval, referring to its body shape

Herklotsichthys punctatus (Rüppell 1837) Latin for spotted, referring to round black spots on dorsal surface

Herklotsichthys quadrimaculatus (Rüppell 1837) quadri- (L.), four; maculatus (L.), spotted, presumably referring to orange spots, two at edge of each gill opening

Herklotsichthys spilura (Guichenot 1863) spilos (Gr. σπίλος), mark or spot; ura, from ourá (Gr. οὑρά), tail, referring to "large black spots" (translation) on tail (although this character does not appear to be confirmed in more recent literature)

Hilsa

Regan 1917 Bengali vernacular for large clupeiform fishes (usually referring to *Tenulosa ilisha*) often used as food

Hilsa kelee (Cuvier 1829) local vernacular for this shad in Andhra Pradesh, India, where type locality (Bay of Bengal at Vishakhapatnam) is situated

Konosirus

Jordan & Snyder 1900 Latinization of *Konoshiro*, Japanese name of *K. punctatus*

Konosirus punctatus (Temminck & Schlegel 1846) Latin for spotted, referring to dark spot behind gill opening and/or several lines of dark dots along flank

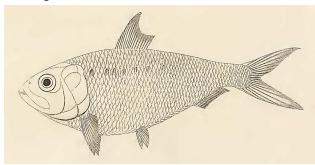


Image upon which description of *Hilsa kelee* was based. From: Russell, P. 1803. Descriptions and figures of two hundred fishes: collected at Vizagapatam on the coast of Coromandel. London, in 2 vols. v. 1-2: I-vii + 78 pp. + 85 pp. , 137 pls.

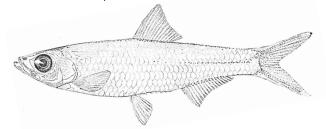
Laeviscutella

Poll, Whitehead & Hopson 1965 laevis (L.), smooth; scutella, diminutive of scutum (L.), shield, i.e., a small scute, referring to unkeeled pre-pelvic scutes and/or post-pelvic scutes lacking ascending arms



Konosirus punctatus. From: Temminck, C. J. and H. Schlegel. 1846. Pisces. In: Siebold, P. F. de (ed.): Fauna Japonica. Lugduni Batavorum [Leiden] (A. Arnz et soc.). Parts 10–14: 173–269.

Laeviscutella dekimpei Poll, Whitehead & Hopson 1965 in honor of Paul De Kimpe (b. 1927), Fisheries Officer at Cotonou (Dahomey, now Republic of Benin), for his services in collecting this and other species for the Musée de l'Afrique Centrale in Tervuren



Laeviscutella dekimpei. From: Poll, M., P. J. P. Whitehead and A. J. Hopson. 1965. A new genus and species of clupeoid fish from West Africa. Bulletin de la Classe des Sciences, Académie Royale de Belgique (Ser. 5) 51 (3): 277–292, Pl. 1.

Lile

Jordan & Evermann 1896

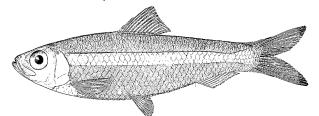
from matt-lile, Tamil name for the east-Indian Clupea lile (=Escualosa thoracata), presumed to be congeners at the time

Lile gracilis Castro-Aguirre & Vivero 1990 Latin for thin or slender, referring to its slender body ("cuerpo grácil")

Lile nigrofasciata Castro-Aguirre, Ruiz-Campos & Balart 2002 nigro, from niger (L.), black; fasciata (L.), banded, referring to obvious dark or black band on midlateral part of body, from posterior edge of operculum to end of caudal peduncle

Lile piquitinga (Schreiner & Miranda Ribeiro 1903) presumably a local Brazilian name for this species first reported in Markgraf von Liebstadt's Historiae naturalis brasiliae (1648)

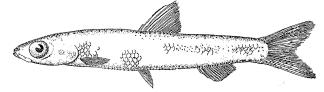
Lile stolifera (Jordan & Gilbert 1882) *stolé* (Gr. στολή), an ecclesiastical vestment usually made of a band of silk and worn over the shoulders during liturgical functions; *-fer*, from *fero* (L.), to have or bear, referring to distinct lateral silvery band



First-published image of *Lile stolifera*. Illustration by Anna L. Brown. From: Jordan, D. S. and B. W. Evermann. 1900. The fishes of North and Middle America: a descriptive catalogue of the species of fish-like vertebrates found in the waters of North America, north of the Isthmus of Panama. Part IV. Bulletin of the United States National Museum No. 47: i–ci + 3137–3313, Pls. 1–392.

Limnothrissa Regan 1917

limno, from límnē (Gr. λίμνη), marsh (but also applied to lakes and pools), referring to distribution in Lake Tanganykia; thríssa (Gr. θρίσσα), a kind of anchovy, possibly related to thrix (Gr. θρίξ), hair, referring to an anchovy's hair-like bones, often used as a standard suffix for clupeiform fishes



Limnothrissa stappersii, holotype, 28 mm TL. From: Poll, M. 1948. Poissons recueillis au Katanga par H. J. Bredo. Bulletin du Musée Royal d'Histoire Naturelle de Belgique 24 (21): 1–24.

Limnothrissa miodon (Boulenger 1906) mio-, from meiôn (Gr. μείων), lesser or smaller; odontos, Latinized and grammatically adjusted from the Greek nominative ὀδούς (odoús), tooth, referring to smaller teeth compared with *Pellonula vorax*, its presumed congener at the time

Limnothrissa stappersii (Poll 1948) in honor of physician-biologist Louis Stappers (1883–1916), head of the Belgian colony in the Congo, who led an expedition to Lake Moero in 1912 and collected holotype

Microthrissa Boulenger 1902

micro-, from mikrós (Gr. μικρός), small, probably referring to much smaller size (*M. royauxi* described at 6.5 cm TL) compared with its Congo relative *Odaxothrissa losera* (16 cm TL); *thríssa* (Gr. θρίσα), a kind of anchovy, possibly related to *thrix* (Gr. θρίξ), hair, referring to an anchovy's hair-like bones, often used as a standard suffix for clupeiform fishes

Subgenus Microthrissa

Microthrissa minuta Poll 1974 Latin for very small, referring to its size (to 3.5 cm SL)

Microthrissa royauxi Boulenger 1902 in honor of Louis-Joseph Royaux (1866–1936), Belgian Army captain and station chief in the Belgian Congo, who led expedition that collected holotype and supplied indigenous names of the species he collected

Microthrissa whiteheadi Gourène & Teugels 1988 in honor of Peter J. P. Whitehead (1930–1993), British Museum (Natural History), "whose numerous publications on clupeoid fishes have contributed substantially to our knowledge of this group"

Subgenus Poecilothrissa

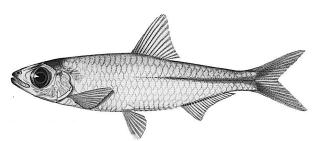
Regan 1917

poecilio-, from poikílos (Gr. ποικίλος), varicolored, allusion not explained nor evident, perhaps referring to lateral band present only on posterior half of *M. congica; thríssa* (Gr. θρίσσα), a kind of anchovy, possibly related to *thrix* (Gr. θρίξ), hair, referring to an anchovy's hairlike bones, often used as a standard suffix for clupeiform fishes

Microthrissa centralis (Poll 1974) Latin for central, referring to its centralized distribution in the Lake Tumba region of the Democratic Republic of the Congo

Microthrissa congica (Regan 1917) -*ica* (L.), belonging to: Congo River, Zaire (now Democratic Republic of the Congo), type locality

Microthrissa moeruensis (Poll 1948) *-ensis*, Latin suffix denoting place: Lake Moero (or Mweru), Kilwa, Zaire (Democratic Republic of the Congo), where it is endemic



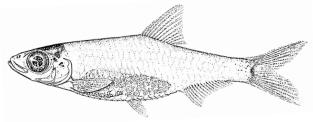
Microthrissa centralis, holotype, 50 mm SL. From: Poll, M. 1974. Synopsis et distribution géographique des Clupeidae d'eau douce africains, descriptions de trois espèces nouvelles. Bulletin de la Classe des Sciences, Académie Royale de Belgique (Ser. 5) 60 (2): 141–161, 3 pls.

Nannothrissa

Poll 1965 nánnos (Gr. νάννος), dwarf, referring to small size of *N. parva* (up to 4.2 cm SL); thríssa (Gr. θρίσσα), a kind of anchovy, possibly related to thrix (Gr. θρίξ), hair, referring to an anchovy's hair-like bones, often used as a standard suffix for clupeiform fishes

Nannothrissa parva (Regan 1917) Latin for small, referring to small size (up to 4.2 cm SL)

Nannothrissa stewarti Poll & Roberts 1976 in honor of ichthyologist Donald J. Stewart (b. 1946), then with the Museum of Zoology, University of Michigan, who helped collect holotype



Nannothrissa stewarti, holotype, 22.5 mm SL. From: Poll, M. and T. R. Roberts. 1976. Nannothrissa stewarti, espèce nouvelle de Clupeidae du lac Mai-ndombe (Zaïre) (Pisces, Clupeidae). Revue de Zoologie Africaine 90 (1): 235–239.

Nematalosa Regan 1917

nématos (Gr. νήματος), threaded, referring to long, filamentous last ray of dorsal fin; *alosa*, from *alausa*, Latin name for *Alosa alosa* (Alosidae) from the river Moselle in Germany, now used as a general suffix for shads and herrings

Nematalosa arabica Regan 1917 -ica (L.), belonging to: Arabia, referring to type locality at Muscat, Gulf of Oman, Arabian Sea

Nematalosa come (Richardson 1846) apparent Latinization of kome, local vernacular for this species off the Coromandel Coast of India

Nematalosa erebi (Günther 1868) in honor of H.M.S. Erebus, from which holotype, first reported as Chatoesus (=N.) come, was collected

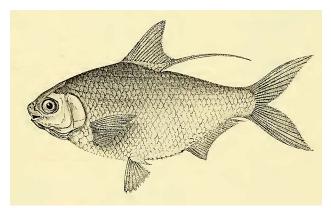
Nematalosa flyensis Wongratana 1983 -ensis, Latin suffix denoting place: Fly River, Papua New Guinea, type locality

Nematalosa galatheae Nelson & Rothman 1973 in honor of the Danish Galathea Expedition, which collected first-known specimens

Nematalosa japonica Regan 1917 -ica (L.), belonging to: Inland Sea of Japan, type locality

Nematalosa nasus (Bloch 1795) Latin for nose, referring to its rounded and projected snout (characteristic of the genus)

Nematalosa papuensis (Munro 1964) -ensis, Latin suffix denoting place: Papua New Guinea, where it is endemic



Nematalosa come. Illustration by W. Mitchell. From: Richardson, J. 1844-48. Ichthyology of the voyage of H.M.S. Erebus & Terror. In: J. Richardson & J. E. Gray (eds.). The zoology of the voyage of H.M.S. Erebus & Terror, under the command of Captain Sir J. C. Ross, R.N., F.R.S., during the years 1839 to 1843. E. W. Janson, London. [Pages 53–74 published in 1846.]

Nematalosa persara Nelson & McCarthy 1995 combination and abbreviation of Persian and Arabian, referring to its distribution in the Persian/Arabian Gulf and northern Arabian Sea to Pakistan

Nematalosa resticularia Nelson & McCarthy 1995 artificial adjective of resticula (L.), cord or line, i.e., cord-like (but authors say it means "maker of small ropes"), referring to large size and texture of its intestinal diverticula

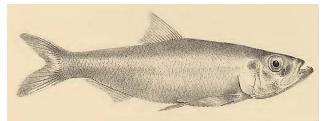
Nematalosa vlaminghi (Munro 1956) patronym not identified but probably in honor of Willem de Vlamingh (1640–ca. 1698), Dutch sea captain who explored western Australia (general location of this species), or his son, Admiral Cornelis de Vlamingh (ca. 1678–1735), explorer and naval officer, who collected and illustrated many fishes for the Muséum national d'Histoire naturelle (Paris)

Odaxothrissa Boulenger 1899

odáx (Gr. ὀδάξ), biting, referring to strong canines on lower jaw of O. losera; thríssa (Gr. θρίσσα), a kind of anchovy, possibly related to thrix (Gr. θρίξ), hair, referring to an anchovy's hair-like bones, often used as a standard suffix for clupeiform fishes

Odaxothrissa ansorgii Boulenger 1910 in honor of English explorer and collector William John Ansorge (1850–1913), who collected holotype

Odaxothrissa losera Boulenger 1899 indigenous name for this species in the Congo River basin of Africa



Odaxothrissa losera. Illustration by Pierre Jacques Smit. From: Boulenger, G. A. 1899. Matériaux pour la faune du Congo. Zoologie. Série I. Poissons nouveaux du Congo. Quatrième Partie. Polyptères, Clupes, Mormyres, Characins. Annales du Musee du Congo (Ser. Zoology) 1 (fasc. 4): 59–96, PI: 30–39.

Odaxothrissa mento (Regan 1917) from the Latin mentum, chin, probably referring to its strongly projecting lower jaw

Odaxothrissa vittata Regan 1917 Latin for banded, referring to its welldefined silvery lateral band

Opisthonema Gill 1861

opistho-, from ópisthen (Gr. ὅπισθεν), behind; néma (Gr. νῆμα), thread, referring to long, filamentous last ray of dorsal fin

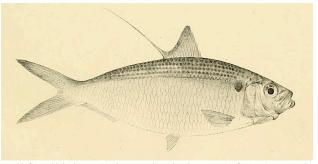
Opisthonema berlangai Berry & Barrett 1963 in honor of Fray Tomás de Berlanga (1487–1551), fourth bishop of Panama, who is credited with discovery of the Galapagos Islands (distribution of this species) in May 1535

Opisthonema bulleri (Regan 1904) in honor of American naturalist Audley Cecil Buller (1853–1894), who collected many specimens of Mexican vertebrates, including holotype of this one

Opisthonema libertate (Günther 1867) of La Libertad, El Salvador, type locality

Opisthonema medirastre Berry & Barrett 1963 *medius* (L.), middle; *rastrum* (L.), rake, referring to intermediate number of gill rakers compared with two other coastal Pacific congeners, *O. berlangai* and *O. libertate*

Opisthonema oglinum (Lesueur 1818) etymology unexplained, unless from the word *ogle*, referring to its large eyes



Possibly first-published image Opisthonema oglinum (as Chatoessus signifer, a junior synonym). Illustration by John William Hill. From: DeKay, J. E. 1842. Zoology of New-York, or the New-York fauna; comprising detailed descriptions of all the animals hitherto observed within the state of New-York, with brief notices of those occasionally found near its borders, and accompanied by appropriate illustrations. Part IV. Fishes. W. & A. White & J. Visscher, Albany. i–xv + 1–415, Pls. 1–79.

Pellonula

Günther 1868

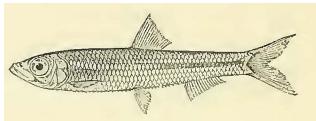
etymology not explained, presumably a diminutive of *Pellona* (now in Pristigasteridae); if so, reason not evident

Pellonula leonensis Boulenger 1916 *-ensis*, Latin suffix denoting place: Sierra Leone (Northern Sherbo District), type locality

Pellonula leonensis afzeliusi Johnels 1954 in honor of biologist-biophysicist Björn Afzelius (1925–2008), member of expedition that collected type in Gambia River

Pellonula leonensis miri (Daget 1954) vernacular used by indigenous fishermen of Bambara (Diafarabé, Mali)

Pellonula vorax Günther 1868 Latin for voracious, probably referring to its "well developed" dentition, with premaxillary teeth pointing outward

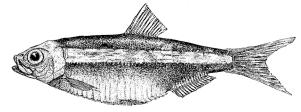


Pellonula leonensis, holotype, 57 mm TL. From: Boulenger, G. A. 1916. Catalogue of the freshwater fishes of Africa in the British Museum (Natural History). London. v. 4: i–xxvii + 1–392.

Platanichthys Whitehead 1968

platan[a], -ana (L.) belonging to: referring to Río de la Plata (Argentina), type locality of its one species; ichthýs (Gr. ἰχθύς), fish

Platanichthys platana (Regan 1917) -ana (L.), belonging to: Río de la Plata (Argentina), type locality



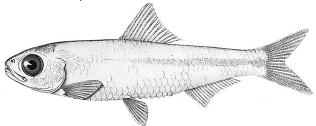
Possibly first-published image of *Platanichthys platana*. From: Whitehead, P. J. P. 1968. A new genus for the South American clupeid fish, *Lile platana* Regan. Journal of Natural History 2 (4): 477–486.

Potamothrissa Regan 1917

potamós (Gr. ποταμός), river, referring to their occurrence in fresh water; thríssa (Gr. θρίσσα), a kind of anchovy, possibly related to thrix (Gr. θρίξ), hair, referring to an anchovy's hair-like bones, often used as a standard suffix for clupeiform fishes *Potamothrissa acutirostris* (Boulenger 1899) *acutus* (L.), sharp or pointed; *rostris* (scientific Neo-Latin), snout, referring to pointed snout

Potamothrissa obtusirostris (Boulenger 1909) obtusus (L.), blunt or dull; *rostris* (scientific Neo-Latin), snout, referring to blunt snout compared with pointed snout of *P. acutirostris*

Potamothrissa whiteheadi Poll 1974 in honor of ichthyologist (and clupeoid specialist) Peter J. P. Whitehead (1930–1993), British Museum (Natural History), who examined Poll's specimens and reported the existence of this species



Potamothrissa whiteheadi, holotype, 45 mm SL. From: Poll, M. 1974. Synopsis et distribution géographique des Clupeidae d'eau douce africains, descriptions de trois espèces nouvelles. Bulletin de la Classe des Sciences, Académie Royale de Belgique (Ser. 5) 60 (2): 141–161, 3 pls.

Rhinosardinia Eigenmann 1912

rhinós (Gr. ἀινός), genitive of rhís (ἀίς), nose or snout, allusion not explained, perhaps referring to retrorse spine on upper part of maxilla at about eye level (and near snout), unique among clupeoids; sardinia, presumably a variation of Sardina, a sardine, perhaps referring to its Sardinella-like shape

Rhinosardinia amazonica (Steindachner 1879) -*ica* (L.), belonging to: Amazon River at Pará, Brazil (type locality)

Rhinosardinia bahiensis (Steindachner 1879) -ensis, Latin suffix denoting place: Bahia, Brazil, type locality



Rhinosardinia bahiensis. Illustration by Eduard Konopicky. From: Steindachner, F. 1879. Ichthyologische Beiträge (VIII). Sitzungsberichte der Kaisetlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Classe 80 (1–2): 119–131. Pls. 1–3.

Sardinella

Valenciennes 1847 diminutive of *Sardina*, a sardine, "similar to the external form of a sardine" (translation)

Subgenus Sardinella

Sardinella aurita Valenciennes 1847 Latin for eared, probably referring to black spot at hind border of gill cover

Sardinella lemuru Bleeker 1853 from *Ikan Lemuru*, its local name in Jakarta (formerly Batavia), Indonesia, type locality (*Ikan* = fish) [treated as a junior synonym of *S. aurita* by some workers]

Sardinella longiceps Valenciennes 1847 longus (L.), long; -ceps (Neo-Latin), headed, referring to "long, thick head" (translation) [treated as a subspecies of *S. aurita* by some workers]

Subgenus Clupeonia

Valenciennes 1847 -ia (L. suffix), pertaining to: Clupea (Clupeidae), genus to which some species had originally been assigned



Sardinella alcyone, holotype, 96.1 mm SL. From: Hata, H. and H. Motomura. 2019. Sardinella alcyone n. sp., a new sardine (Teleostei: Clupeiformes: Clupeidae) from the northwestern Pacific Ocean. In: Ho, H.-C., K. Koeda and E. J. Hilton (eds.). Study on the fish taxonomy and diversity of Taiwan. Zootaxa 4702 (1): 19–25.

Sardinella albella (Valenciennes 1847) presumably a diminutive of albus (L.), white, referring to its bright silver coloration

Sardinella alcyone Hata & Motomura 2019 alkyón (Gr. ἀλκυών), kingfisher, referring to its "brilliant" blueish dorsum, like that of the bird

Sardinella atricauda (Günther 1868) atri-, from ater (L.), black; cauda (L.), tail, referring to deep black tip of each caudal lobe (which may disappear in preserved specimens)

Sardinella brachysoma Bleeker 1852 brachýs (Gr. βραχύς), short; sốma (Gr. σῶμα), body, presumably referring to its shorter (but deeper) body compared with S. lemuru

Sardinella dayi Regan 1917 in memory of Francis Day (1830–1889), Inspector-General of Fisheries in India and author of the "Fishes of India" series (1875–1888)

Sardinella electra Hata & Motomura 2019 from élektron (Gr. ἤλεκτρον), an alloy of gold and silver, now used as a metaphor for splendor, i.e., something bright, referring to its "brilliant" silver body

Sardinella fijiensis (Fowler & Bean 1923) -ensis, Latin suffix denoting place: Fiji Islands, type locality

Sardinella fimbriata (Valenciennes 1847) Latin for fringed, referring to scales with fringed (i.e., striated, serrated or indented) margins

Sardinella gibbosa (Bleeker 1849) Latin for humpbacked, referring to its elevated back ("dorso medio in gibbam elevato")

Sardinella goni Stern, Rinkevich & Goren 2016 in honor of Ofer Gon (b. 1949), South African Institute for Aquatic Biodiversity, for his "extensive study" of the taxonomy of Indian Ocean fishes

Sardinella hualiensis (Chu & Tsai 1958) -ensis, Latin suffix denoting place: Hualien, Taitung, east coast of Taiwan Island, type locality

Sardinella jussieu (Lacepède 1803) in honor of French botanist Antoine Laurent de Jussieu (1748–1836), for sharing an unpublished 1770 manuscript about this fish written by Philibert Commerçon [presumably a noun in apposition, without the patronymic "*i*"]

Sardinella maderensis (Lowe 1838) -ensis, Latin suffix denoting place: off the coast of Madeira, type locality

Sardinella marquesensis Berry & Whitehead 1968 -ensis, Latin suffix denoting place: Marquesas Islands, where it is endemic

Sardinella melanura (Cuvier 1829) mélanos (Gr. μέλανος), genitive of mélas (μέλας), black; ourá (Gr. οὐρά), tail, referring to black tips of caudal fin

Sardinella pacifica Hata & Motomura 2019 -*ica* (L.), belonging to: Pacific Ocean, distinguishing it from *S. fimbriata*, with which it had been confused, now considered to be restricted to the Indian Ocean

Sardinella richardsoni Wongratana 1983 in honor of Scottish surgeonnaturalist John Richardson (1787–1865), who described this fish in 1846 as *Clupea isingleena* (a name suppressed by the ICZN for not having been used for more than 50 years) *Sardinella rouxi* (Poll 1953) in honor of marine zoologist Charles Roux (1920–ca. 2000), director, Centre Oceanographique de Pointe-Noire (Republic of the Congo), who provided some "interesting material" (translation) regarding this fish

Sardinella sindensis (Day 1878) -ensis, Latin suffix denoting place: Sindh province of Pakistan, referring to type locality at Karachi

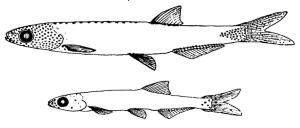
Sardinella tawilis (Herre 1927) local Tagalog (Philippines) name for this fish

Sardinella ventura Hata & Motomura 2021 Italian for fortune (authors say it is Latin, which would be *fortuna*), reflecting the "unexpected find" of type specimens at the British Museum (Natural History)

Sardinella zunasi (Bleeker 1854) Japanese vernacular for this fish (described from Nagasaki); also spelled zunashi

Sierrathrissa

Thys van den Audenaerde 1969 Sierra, referring to Sierra Leone, type locality; *thríssa* (Gr. θρίσσα), a kind of anchovy, possibly related to *thrix* (Gr. θρίξ), hair, referring to an anchovy's hair-like bones, often used as a standard suffix for clupeiform fishes

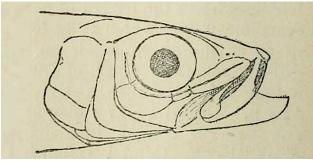


Sierrathrissa leonensis, adult holotype (30.5 mm TL) above, juvenile paratype (16.5 mm TL) below, From: Thys van den Audenaerde, D. F. E. 1969. Description of a new genus and species of clupeoid fish from Sierra Leone. Revue de Zoologie et de Botanique Africaines 80 (3–4): 385–390.

Sierrathrissa leonensis Thys van den Audenaerde 1969 - ensis, Latin suffix denoting place: Sierra Leone, type locality

Stolothrissa Regan 1917

stolé (Gr. στολή), an ecclesiastical vestment usually made of a band of silk and worn over the shoulders during liturgical functions; *thríssa* (Gr. θρίσσα), a kind of anchovy, possibly related to *thrix* (Gr. θρίξ), hair, referring to an anchovy's hair-like bones, often used as a standard suffix for clupeiform fishes



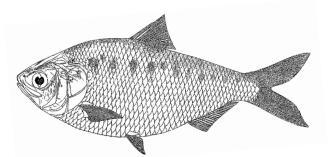
Stolothrissa tanganicae, detail of head. From: Regan, C. T. 1917. A revision of the clupeid fishes of the genus Pellonula and of related genera in the rivers of Africa. Annals and Magazine of Natural History (Series 8) 19 (110): 198–207.

Stolothrissa tanganicae Regan 1917 of Lake Tanganyika, where it is endemic

Tenualosa Fowler 1934

tenuis (L.), slender, allusion not explained nor evident; alosa, from alausa, Latin for shad, possibly referring to original generic placement of type species, *T. reevesii*

Tenualosa ilisha (Hamilton 1822) Latinization of ilish, Bengali vernacular usually applied to this species



Tenualosa thibaudeaui. From: Durand, J. 1940. Notes sur quelques poissons d'espèces nouvelles ou peu connues des eaux douces cambodgiennes. Institut Océanographic de l'Indochine Note 36: 1–40, table, Pls. 1–8.

Tenualosa macrura (Bleeker 1852) large-tailed, from *makrós* (Gr μaκρός), long or large, and *ourá* (Gr. οὐρά), tail, referring to its long caudal fin, 40–42% of standard length, with long pointed lobes

Tenualosa reevesii (Richardson 1846) in honor of John Reeves (1774– 1856), who acquired fish specimen and commissioned Chinese artists to paint or illustrate them while working as a tea inspector in China (1812–1831), including holotype of this one

Tenualosa thibaudeaui (Durand 1940) in honor of French Colonial administrator Leon Emmanuel Thibaudeau (1883–1946), Résident Supérieur, Cambodia; he worked with Cambodia's Oceanographic Institute to help local fishers gain more control over fish sales by grouping into co-operatives

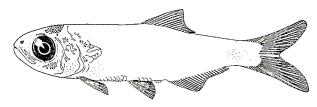
Tenualosa toli (Valenciennes 1847) presumably vernacular for this

species in Puducherry, India, as recorded by Jean-Jacques Dussumier (1792–1883), voyager and merchant who collected zoological specimens from southeastern Asia and the Indian Ocean

Thrattidion Roberts 1972

neuter diminutive of *thrắtta* (Gr. θρᾶττα), literally a "Thracian woman" but used in ancient times as a name for a small herring-like fish, referring to its small size (21.4 mm)

Thrattidion noctivagus **Roberts 1972** *noctis*, genitive of *nox* (L.), night; *vagus* (L.), wandering, referring to its upward and shoreward migrations at nightfall in mixed aggregations with other small fishes



Thrattidion noctivagus, paratype, 19.4 mm SL. From: Roberts, T. R. 1972. Osteology and description of Thrattidion noctivagus, a minute, new freshwater clupeid fish from Cameroon, with a discussion of pellonulin relationships. Breviora No. 382: 1–25.