

The ETYFish Project

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COMMENTS: 

v. 13.0 - 18 June 2026

Order PERCIFORMES (part 20)

Suborder COTTOIDEI

Infraorder COTTALES (part 2 of 4)

Family COTTIDAE Sculpins

22 genera/subgenera · 129 species/subspecies

***Abyssocottus* Berg 1906**

abyssos, deep water, referring to its occurrence in the deep water of Lake Baikal; *Cottus*, type genus of family

Subgenus ***Abyssocottus***

***Abyssocottus fuscus* Bogdanov 2013**

dusky, dark or swarthy, referring to brown coloration [possibly an unavailable name since holotype was not deposited at a museum as required by ICZN Article 16.4.2]

***Abyssocottus korotneffi* Berg 1906**

in honor of biologist Alexei Alexeievich Korotneff (1852–1914), Kiev University, who dredged all the sculpins from Lake Baikal that Berg examined, including type of this one

***Abyssocottus pumilus* Bogdanov 2013**

dwarfish, diminutive or little, referring to small size, up to 58.3 mm TL [possibly an unavailable name since holotype was not deposited at a museum as required by ICZN Article 16.4.2]

Subgenus ***Korotnevia* Bogdanov 2023**

-ia (L. suffix), belonging to: Russian zoologist Aleksei Alekseevich Korotnev (1854–1915), founder of the study of the deepwater fishes of Lake Baikal

***Abyssocottus elochini* Taliev 1955**

of Cape Elokhin, 2 km south of type locality at Lake Baikal, Russia

***Abyssocottus gibbosus* Berg 1906**

humpbacked, presumably referring to high nape and arched dorsal profile

***Abyssocottus subulatus* (Dybowski 1908)**

subulate (slender and tapering to a point), proposed as a longer or more streamlined variety (or subspecies) of *A. gibbosus*

***Alpinocottus* Bogdanov 2023**

alpinus, alpine or mountain, referring to occurrence of *A. poecilopus* in mountain brooks; *Cottus*, all three species originally placed in that genus

***Alpinocottus kuznetzovi* (Berg 1903)**

patronym not identified but probably in honor of Innokentiy Dmitrievich Kuznetsov (1863–1921), Russian ichthyologist and fisheries scientist who took part in expeditions to Azov Sea (1886), Volga (1890) and Caspian Sea (1894)

***Alpinocottus poecilopus* (Heckel 1837)**

poecilio-, varicolored; *pous*, foot, presumably referring to narrow transverse stripes on all fins (except first dorsal fin), but best seen in the ventral fins (which are all-white on *Cottus gobio*, its presumed congener at the time)

***Alpinocottus szanaga* (Dybowski 1869)**

from *Szanaga-sagasu* (spoon fish), Buryat (Mongolian dialect) for this sculpin in the Upper Amur River basin

***Alpinocottus volki* (Taranetz 1933)**

patronym not identified but almost certainly in honor of Alexander Maksimovich Volk (d. 1943), Pacific Scientific-Research Institute of Fisheries; he was Taranetz' friend and they collected fishes, amphibians and reptiles together in the Russian Far East (both died in action during WW2)

***Asprocottus* Berg 1906**

aspro-, etymology not explained, possibly from *asper*, rough, referring to body (but not head) densely covered with spines, and/or to *Aspro*, referring to slender, ventrally-flattened body shape of *A. herzensteini*, superficially resembling the European percid *Aspro apron* (=Zingel asper); *Cottus*, type genus of family

***Asprocottus abyssalis* Taliev 1955**

of the deep sea, referring to its occurrence at up to 1400 m in the southern part of Lake Baikal

***Asprocottus herzensteini* Berg 1906**

patronym not identified but almost certainly in honor of Russian ichthyologist Solomon Markovich Herzenstein (1854-1894)

***Asprocottus intermedius* Taliev 1955**

intermediate, presumably intermediate in characters between *A. herzensteini* and *A. abyssalis*

***Asprocottus korjakovi korjakovi* Sideleva 2001**

in honor of Evgeniy Alekseevich Koryakov, an ichthyologist at the Lake Baikal Limnological Station in the 1940s (this sculpin is endemic to Lake Baikal)

***Asprocottus korjakovi minor* Sideleva 2001**

small, presumably referring to smaller size (up to 80 mm TL) compared with the nominate form (up to 110 mm TL)

***Asprocottus parmiferus* Taliev 1955**

parma, shield; *fero*, to bear, referring to whole body (except for belly, area under pectoral fins, and lower part of head) covered with wide bony scutes

***Asprocottus platycephalus* Taliev 1955**

platy, flat; *cephalus*, head, referring to dorso-ventrally flattened head, its shape similar to the bill of a duck

***Asprocottus pulcher* Taliev 1955**

beautiful, allusion not explained, perhaps referring to its coloration, described as having a brown back, yellow-brown sides, and dark-gray fins

***Batrachocottus* Berg 1903**

batrachus, frog, allusion not explained, probably referring to large head and or wide mouth of *B. baicalensis*; *Cottus*, type genus of family

***Batrachocottus baicalensis* (Dybowski 1874)**

-ensis, suffix denoting place: Lake Baikal, where it is endemic

***Batrachocottus multiradiatus* Berg 1907**

multi-, many; *radiatus*, rayed, proposed as a variety (or subspecies) of *B. nikolskii* with a greater number of dorsal-, anal- and pectoral-fin rays

***Batrachocottus nikolskii* (Berg 1900)**

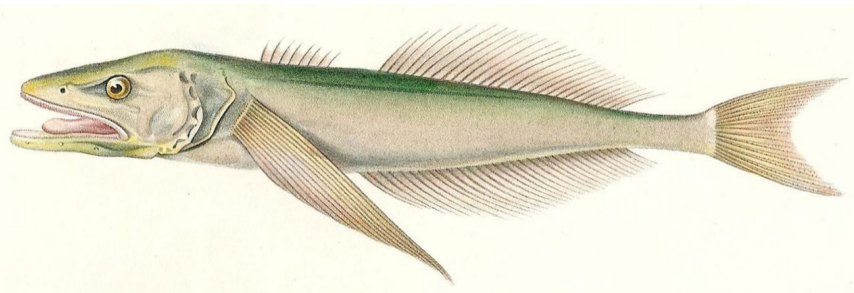
in honor of ichthyologist-herpetologist Alexander Mikhailovich Nikolsky (also spelled Nikolskii, 1858-1942)

***Batrachocottus talievi* Sideleva 1999**

in honor of Dmitrii Nikolaevich Taliev (1908-1952), Soviet ichthyologist-limnologist, known for his work studying the sculpins of Lake Baikal, where this one is endemic

***Comephorus* Lacepède 1800**

coma, from the Greek *kome*, hair of the head; *phorus*, bearer, referring to many rays of second dorsal fin garnished with long, hair-like filaments, a misnomer: Lacepède, paraphrasing Pallas' exaggerated account of the delicacy of the dorsal-fin rays of *C. baicalensis*, erroneously believed the rays, as fine as hair, extended far beyond the fin's membrane (which they do not)



An early color illustration, perhaps the first, of *Comephorus baicalensis*. From: Valenciennes, A. 1838. Les poissons. In: Cuvier, G. *Le règne animal distribué d'après son organisation, pour servir de base à l'histoire naturelle des animaux, et d'introduction à l'anatomie comparée*. Troisième édition. Tome 4. Fortin, Masson et Co., Paris. p. 1-392, pls.

***Comephorus baikalensis* (Pallas 1776)**

-*ensis*, suffix denoting place: Lake Baikal of Russia, where it is endemic

***Comephorus dybowski* Korotneff 1904**

in honor of Polish biologist Benedykt Dybowski (1833-1930), the “learned professor who has studied this strange genus of fishes the most” [often spelled *dybowski*, but Korotneff (also spelled Korotnev) left off the second “i,” either a transcription error or a noun in apposition]

***Cottinella* Berg 1907**

-*ella*, a diminutive; *Cottus*, type genus of family, i.e., a small sculpin, allusion not explained, proposed as a subgenus of *Abyssocottus*, possibly referring to smaller size (12.2 cm TL) relative to *A. gibbosus* (14.0 cm) and *A. korotneffi* (13.2 cm)

***Cottinella boulegeri* (Berg 1906)**

patronym not identified but almost certainly in honor of ichthyologist-herpetologist George A. Boulenger (1858-1937), British Museum (Natural History)

***Cottocomephorus* Pellegrin 1900**

combination of *Cottus* and *Comephorus* (Comephorinae), a similar genus also from Lake Baikal

***Cottocomephorus alexandrae* Taliev 1935**

matronym not identified, probably in honor of Taliev’s wife, amphipod biologist Aleksandra Yakovlevna Bazikalova; they worked together at the Limnological Research Station at Lake Baikal, where this sculpin is endemic

***Cottocomephorus comephoroides* (Berg 1900)**

-*oides*, having the form of: resembling *Comephorus baikalensis*, also from Lake Baikal

***Cottocomephorus grewingkii* (Dybowski 1874)**

patronym not identified but probably in honor of Konstantin Ivanovich Grewingk (1819-1887), Baltic-German geologist and mineralogist

***Cottocomephorus inermis* (Yakovlev 1890)**

unarmed, allusion not explained, perhaps referring to small spines on head, usually hidden in skin, and/or sparse scales on body, lacking spines

***Cottus* Linnaeus 1758**

Latinization of the Greek *kóttos* (κόττος), *kóthos* (κῶθος) and a few similar words, denoting a bulging head, used as a name for small freshwater fishes with a large head [*Gobio*, gudgeon, and *Gobius*, goby, have the same etymological source]

Subgenus ***Cottus******Cottus aturi* Freyhof, Kottelat & Nolte 2005**

of Aturus (also spelled Athurus), Latin name of River Adour (occurs in Adour and Nivelle drainages in France and Spain)

***Cottus cyclophthalmus* Sideleva, Kesminas & Zhidkov 2022**

cyclos, round; *ophthalmus*, eye, referring to round and convex shape of eyes

***Cottus cyclophthalmus* Sideleva, Kesminas & Zhidkov 2022**

cyclos, round; *ophthalmus*, eye, referring to round and convex shape of eyes

***Cottus dorofeevi* Sideleva & Shidkov 2024**

in honor of zoologist Sergei A. Dorofeev, Vitebsk State University (Belarus), for his “remarkable contribution to advances in the field”; he also organized and took part in the collection of type specimens

***Cottus duranii* Freyhof, Kottelat & Nolte 2005**

of Duranius (also spelled Durranus), Latin name of River Dordogne, France, in whose drainage type locality (Stream Epie) is situated

***Cottus dzungaricus* Kottelat 2006**

-*icus*, belonging to: Dzungarian Gobi (Mongolia and China), where it occurs [replacement name for *Cottus sibiricus altaicus* Li & Ho 1966, preoccupied by *C. altaicus* Kaschenko 1899; may be a junior synonym of *C. sibiricus*]

***Cottus gobio* Linnaeus 1758**

from the Greek *kobios*, most likely meaning head, usually applied to small fishes with large heads

***Cottus gratzianowi* Sideleva, Naseka & Zhidkov 2015**

in honor of Valerian Ivanovich Gratzianow (also spelled Gratsianov, 1876-1932), author of the first taxonomic review of Russian fishes (1907), and who described *C. koshewnikowi*

***Cottus haemusi* Marinov & Dikov 1986**

of Haemus, old name of the Balkan Ridge, from which the Beli Vit River (Danube River basin, Bulgaria, type locality) originates

***Cottus hispaniolensis* Băcescu & Băcescu-Meşter 1964**

-*ensis*, suffix denoting place: Hispania (i.e., Iberian Peninsula), referring to its occurrence in the southern Garonne drainage of Spain (also in France)

***Cottus jaxartensis* Berg 1916**

-*ensis*, suffix denoting place: Jaxartes, ancient name of Syr Darya, Uzbekistan, in whose type locality (Ugam River, tributary of Chirchik River) is situated

***Cottus koshewnikowi* Gratzianov 1907**

in honor of entomologist Grigorii Aleksandrovich Kozhevnikov (1866-1933), Moscow University, president of the Commission for the Study of the Fauna of the Moscow Governorate from the Goredva River (Oka River Basin), under whose auspices holotype was collected

***Cottus metae* Freyhof, Kottelat & Nolte 2005**

in honor of biologist Meta Povž (Ljubljana, Slovenia), for her “continuous help with several projects”

***Cottus microstomus* Heckel 1837**

micro-, small; *stomus*, mouth, referring to smaller mouth than that of *C. gobio*

***Cottus perifretum* Freyhof, Kottelat & Nolte 2005**

peri-, around; *fretum*, strait, referring to its occurrence in streams on both sides of the English Channel (Fretum Gallicum in Latin)

***Cottus petiti* Băcescu & Băcescu-Meşter 1964**

in honor of zoologist-anatomist Georges Petit (1892-1973), Muséum national d'Histoire naturelle (Paris), “with esteem and affection on the occasion of his 50th anniversary in science” (translation)

***Cottus rhenanus* Freyhof, Kottelat & Nolte 2005**

-*anus*, belonging to: Rhenus, Latin name of Rhine River (Germany), in whose drainage it occurs

***Cottus ricei* (Nelson 1876)**

in honor of Nelson's friend F. L. Rice, then a student in zoology at Northwestern University (Evanston, Illinois, USA), who collected holotype and gave it to Nelson for identification

***Cottus rondeleti* Freyhof, Kottelat & Nolte 2005**

in honor of Guillaume Rondelet (1507-1566), precursor of European ichthyology and author of one the very first ichthyological treatises (1554-55); he was professor of medicine at the University of Montpellier, very close to type locality (a creek in Dept. Hérault, France)

***Cottus sabaudicus* Sideleva 2009**

-*icus*, belonging to: Sabaudia, Latin spelling of Savoy, referring to Haute-Savoy district of southeastern France, where this sculpin appears to be endemic

***Cottus sibiricus* Warpachowski 1889**

-*icus*, belonging to: Siberia, where type locality (Yenisey River near Minusinsk Town, Krasnoyarsk Krai) is situated

***Cottus spinulosus* Kessler 1872**

diminutive of *spinosus*, spiny, referring to granular spiny plates densely covering upper sides of head and dorsal and lateral regions of body

***Cottus transsylvaniae* Freyhof, Kottelat & Nolte 2005**

of Transsylvania, Latin name of Transylvania, historical region located in central Romania, where this sculpin is endemic

Subgenus ***Cephalocottus* Gratzianov 1907**

proposed as a new genus for *C. amblystomopsis*, distinguished by its flattened *cephalus*, or head

***Cottus amblystomopsis* Schmidt 1904**

misspelling (with an “l”) of *Ambystoma*, referring to the Axolotl, *Ambystoma mexicanus*; *opsis*, appearance, described as having a head that is “strongly dorsoventrally depressed, wide, nearly flat dorsally, abruptly sloping laterally, similar to the head of an axolotl” (translation)

***Cottus nozawae* Snyder 1911**

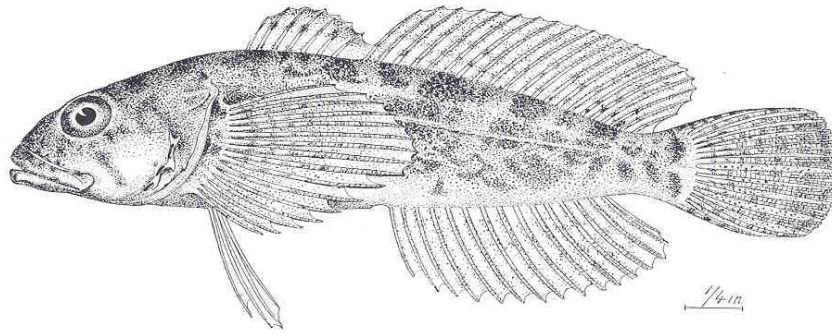
in honor of zoologist Shunjiro (sometimes spelled Sunziro) Nozawa, Director, Fisheries Bureau (Hokkaido, Japan) [although named after a man, some classically trained zoologists latinized the names of individuals that ended with the letter “a” by adding an “e” to the spelling]

Subgenus ***Cottopsis* Girard 1850**

opsis, appearance, proposed as a new genus for *C. asper*, similar to *Cottus* but distinguished by its palatine teeth and dermal prickles

***Cottus aleuticus* Gilbert 1896**

-*ica*, belonging to: the Aleutians (specifically, Unalaska Island, Alaska, USA), type locality (occurs in eastern Pacific south to California)



Cottus perplexus. From: Gilbert, C. H. and B. W. Evermann. 1894. A report upon investigations in the Columbia River basin, with descriptions of four new species of fishes. *Bulletin of the U. S. Fish Commission* v. 14 (art. 16): 169-207, Pls. 16-25.

***Cottus asper* Richardson 1836**

rough, its back and sides “thickly studded with very small, subulate, acute spines directed backwards”

***Cottus asperrimus* Rutter 1908**

superlative of *asper*, very rough, presumably referring to “Fine prickles” covering body

***Cottus gulosus gulosus* (Girard 1854)**

gluttonous, referring to its “proportionally large” mouth

***Cottus gulosus wintu* Moyle & Campbell 2022**

named for the Wintu people, original inhabitants of the Sacramento River watershed of California (USA), where this sculpin occurs; the Winnemem Wintu (Middle Water People) still live in the area and are working to restore salmon runs and to protect sacred rivers and sites in the region

***Cottus klamathensis klamathensis* Gilbert 1898**

-ensis, suffix denoting place: Upper Klamath Lake near Klamath Falls, Klamath County, Oregon (USA), type locality (also occurs in California)

***Cottus klamathensis macrops* Rutter 1908**

macro-, large; *ops*, eye, referring to larger eye than nominate form

***Cottus klamathensis polyporus* Daniels & Moyle 1984**

poly, many; *porus*, pore, referring to greater number of lateral-line pores compared with the other two subspecies

***Cottus marginatus* (Bean 1881)**

marginated, presumably referring to “distinct” white margin on first dorsal fin

***Cottus ohlone ohlone* Moyle & Campbell 2022**

named for the Ohlone peoples, original inhabitants of the Santa Clara Valley region and much of the southern San Francisco Bay region of California (USA), where this sculpin occurs; the Ohlone name originally referred to more than 50 peoples who spoke similar languages and interacted with one another, but whose descendants are largely encompassed by the present-day Muwekma Ohlone Tribe

***Cottus ohlone pomo* Moyle & Campbell 2022**

named for the Pomo peoples who were once the principal inhabitants (prior to the arrival of the Spanish) of the Russian River region of California (USA), where this sculpin occurs

***Cottus perplexus* Gilbert & Evermann 1894**

interwoven, entangled, involved, intricate or confused, allusion not explained, possibly referring to its complex color pattern (e.g., “back and sides with vermiculations of light and dark, the back with 5 or 6 ill-defined black crossbars, which usually reach the lateral line; ... below the lateral line a number of small, quadrate, dark blotches, arranged in two irregular series”); Jordan & Evermann (1898) say name means “perplexed” without explanation, and Moyle (*Inland Fishes of California*, 2nd. ed., 2002) translates name as “perplexing,” reflecting the difficulty in defining this species, but species was unambiguously described without any confusion or hesitation regarding its distinctiveness and status)

***Cottus pitensis* Bailey & Bond 1963**

-ensis, suffix denoting place: Pit River basin, California, USA, type locality (the river itself was named because early Euro-American visitors were impressed by the deep pits dug by the native peoples to trap wildlife)

***Cottus princeps* Gilbert 1898**

chief, first or foremost, allusion not explained, perhaps referring to how it differs from congeners known at the time in its “very narrow, slender form, the long fins, and especially in the extreme development of the mucous tubes and pores”

***Cottus tenuis* (Evermann & Meek 1898)**

slender, referring to its “very slender” body

Subgenus ***Uranidea* DeKay 1842**

uranos, sky; *eidon*, I looked, i.e., stargazer, referring to “nearly vertical” eyes of *C. quiescens* (= *cognatus*) [treated as a full genus by some workers]

***Cottus baileyi* Robins 1961**

in honor of ichthyologist Reeve M. Bailey (1911-2011), University of Michigan, for his “many noteworthy” contributions to our knowledge of North American freshwater fishes

***Cottus bairdii bairdii* Girard 1850**

in honor of Spencer Fullerton Baird (1823-1887), Assistant Secretary of the Smithsonian Institution, Director of the U.S. National Museum, and U.S. Commissioner of Fish and Fisheries, who collected type

***Cottus bairdii kumlieni* (Hoy 1876)**

in honor of ornithologist Aaron Ludwig Kumlien (1853-1902), who provided a “very accurate” drawing of the holotype of *Uranidea hoyi* (= *Cottus cognatus*) [authorship uncertain from text; perhaps Nelson (ex Hoy), with description from one of Hoy’s types]

***Cottus bairdii punctulatus* (Gill 1861)**

speckled, referring to numerous black spots, “very small and abundant” on head and anterior portion of body, with “quite thickly spotted” dorsal-, caudal- and pectoral-fin rays

***Cottus bairdii semiscaber* (Cope 1872)**

semi-, half; *scaber*, rough, referring to “prickly” skin above lateral line, smooth below it posteriorly

***Cottus bendirei* (Bean 1881)**

in honor of U.S. Army officer and ornithologist Charles E. Bendire (1836-1897), who collected type

***Cottus caeruleomentum* Kinziger, Raesly & Neely 2000**

caeruleus, blue; *mentum*, chin, referring to blue chin of spawning males

***Cottus carolinae carolinae* (Gill 1861)**

in honor of Gill’s “estimable young friend,” Miss Caroline Henry (1839-1920); she was the daughter of Joseph Henry (1797-1878), first Secretary of the Smithsonian Institution, who took Gill under his wing when Gill was beginning his career

***Cottus carolinae infernatus* Williams & Robins 1970**

of the lowlands, referring to its distribution below the Fall Line in Alabama (USA)

***Cottus carolinae zopherus* (Jordan 1877)**

Greek for dusky, referring to its “very dark, almost black” color

***Cottus chattahoochee* Neely, Williams & Mayden 2007**

named for its distribution in the Chattahoochee River drainage above the Fall Line in Georgia (USA)

***Cottus cognatus cognatus* Richardson 1836**

related, referring to its resemblance to the European *C. gobio*

***Cottus cognatus gracilis* Heckel 1837**

slender, referring to its “slimmer and less spindle-shaped” body (translation) compared with *C. gobio*

***Cottus echinatus* Bailey & Bond 1963**

Latin for prickly, referring to “heavy investment of prickles on the body, including the ventral surface” [extinct due to pollution and increased salinity from agriculture and drought; last seen in 1928]

***Cottus extensus* Bailey & Bond 1963**

extended or stretched out, referring to its slender form

***Cottus girardi* Robins 1961**

in honor of ichthyologist-herpetologist Charles Girard (1822-1895), “an early student of the genus”

***Cottus hubbsi* Bailey & Dimick 1949**

in honor of Carl L. Hubbs (1894-1979), who recognized the species as new and “from whose broad experience with North American fishes [the authors] have drawn freely”; he also read the manuscript and offered “numerous helpful criticisms”

***Cottus hypselurus* Robins & Robison 1985**

hypselos, high; *oura*, tail, referring to deep posterior part of body

***Cottus immaculatus* Kinziger & Wood 2010**

spotless (immaculate), referring to absence of melanophores on ventral surface of peritoneum

***Cottus kanawhae* Robins 2005**

of the Kanawha (=New) River system, Virginia and West Virginia, USA, where it is endemic

***Cottus paulus* Williams 2000**

Latin for little, it being the smallest North American sculpin (38 mm SL, 45 mm TL) [replacement name for *C. pygmaeus* Williams 1968, preoccupied by *Cottus quadricornis pygmaeus* Lönnberg 1932, =*Myoxocephalus quadricornis*]

***Cottus rhotheus* (Smith 1882)**

rushing (i.e., torrential), presumably referring to its occurrence in falls or swift current [author later known as Rosa Smith Eigenmann]

***Cottus specus* Adams & Burr 2013**

cave or cavern, referring to primary habitat in caves

***Cottus tallapoosae* Neely, Williams & Mayden 2007**

of the Tallapoosa River drainage, where it occurs above the Fall Line in Alabama and Georgia (USA)

Subgenus *Incertae sedis****Cottus altaicus* Kaschenko 1899**

-*icus*, belonging to: Altai, Siberia, Russia, where type locality (Katun River, Bol'shoi Uiman) is situated

***Cottus beldingii* Eigenmann & Eigenmann 1891**

in honor of professional bird collector Lyman Belding (1829-1917), who collected part of type series

***Cottus confusus* Bailey & Bond 1963**

Latin for clouded, referring to "irregular and indistinct body pigmentation"

***Cottus czerskii* Berg 1913**

in honor of ornithologist Alexander Ivanovich Czerski (1879-1921, son of Jan Czerski [1845-1892], celebrated Polish geologist, naturalist and explorer), who helped collect type

***Cottus greenei* (Gilbert & Culver 1898)**

in honor of Charles Wilson Greene (1866-1947, then a physiology instructor at Stanford University (later a full professor of physiology and pharmacology at University of Missouri), "to whose energy was due much of the success of the expedition" during which type was collected (he later studied the phosphorescent organs of toadfishes, the circulatory system of hagfishes, and the physiology of Chinook Salmon)

***Cottus hangiongensis* Mori 1930**

-*ensis*, suffix denoting place: location not explained, perhaps an alternate spelling of Hamgyeong, referring to North Hamgyeong Province of North Korea, where type locality (Kainei) is situated

***Cottus kolymensis* Sideleva & Goto 2012**

-*ensis*, suffix denoting place: referring to its occurrence in the Kolyma River and other rivers of the Kolyma Krai (federal subject) of Russia

***Cottus koreanus* Fujii, Choi & Yabe 2005**

Korean, known only from the Korean Peninsula, where it occurs in several rivers

***Cottus leiopomus* Gilbert & Evermann 1894**

leios, smooth; *poma*, operculum, referring to its lack of preopercular spines

***Cottus ohmiensis* Watanabe 1960**

-*ensis*, suffix denoting place: Ōmi Province, an old province of Japan that today comprises Shiga Prefecture, where co-type localities (Chinai River and Ado River) are situated [status uncertain; provisionally included here]

***Cottus pollux* Günther 1873**

presumably named for Pollux, along with Caster, the Gemini, or twins, in Greek mythology, a seeming twin to *C. gobio*, described as "very similar" in general appearance and color

***Cottus reinii* Hilgendorf 1879**

in honor of "Prof. Rein," who provided type, probably German geographer Johannes Justus Rein (1835-1918), who explored Japan in 1874-1875

***Cottus schitsuumsh* LeMoine, Young, McKelvey, Eby, Pilgrim & Schwartz 2014**

Americanist phonetic notation of the spoken word (pronounced *s-CHEET-sue-umsh*) used by the first peoples (now recognized as the Coeur d'Alene Tribe) who inhabited portions of northern Idaho and western Montana (where this sculpin occurs), meaning "those who were found here," referring to the people of this tribe

***Cyphocottus* Sideleva 2003**

cypho-, bent or hunchbacked, referring to back of *C. megalops*, which elevates sharply with age, forming a hump; *Cottus*, type genus of family

***Cyphocottus eurystomus* (Taliev 1955)**

eury, wide; *stoma*, mouth, proposed as a subspecies of *C. megalops* with a bigger mouth, its terminus reaching middle of eye (vs. first 1/3 of eye)

***Cyphocottus megalops* (Gratzianov 1902)**

mega-, large; *ops*, eye, referring to very large convex eyes, their diameter horizontally four times in HL

***Leocottus* Palmer 1961**

leo, etymology not explained nor evident, but here is a guess: named for ichthyologist Lev (or Leo) Semyonovich Berg (1876-1950), who wrote several papers on Lake Baikal sculpins that Taliev cited, and who described over a dozen sculpin taxa; *Cottus*, type genus of family [Taliev did not designate a type, so authorship is credited to G. Palmer, British Museum (Natural History), a compiler for the *Zoological Record*, who designated type [not to be confused with *Leiocottus*]

***Leocottus kesslerii kesslerii* (Dybowski 1874)**

patronym not identified but probably in honor of German-Russian zoologist Karl Federovich Kessler (1815-1881), who described *Cottus spinulosus* in 1872

***Leocottus kesslerii arachlensis* Tarkhova 1962**

-ensis, suffix denoting place: Lake Arakhlei, Lake Baikal Basin, Russia, type locality

***Leocottus kesslerii gussinensis* Tarkhova 1962**

-ensis, suffix denoting place: Lake Gusinor (also spelled Gusinoe), Lake Baikal Basin, Russia, type locality

***Leptocottus* Girard 1854**

leptos, slender, referring to “elongated” body and head; *Cottus*, type genus of family

***Leptocottus armatus* Girard 1854**

armed (with a weapon), referring to large, sharp preopercular spines

***Limnocottus* Berg 1906**

limno-, lake, endemic to Russia’s Lake Baikal; *Cottus*, type genus of family

***Limnocottus bergi* Dybowski 1908**

in honor of ichthyologist Lev (also Leo) Semyonovich Berg (1876-1950), who proposed the genus in 1906

***Limnocottus bergianus* Taliev 1935**

-anus, belonging to: patronym not explained but almost certainly in honor of Russian ichthyologist Lev (or Leo) Semyonovich Berg (1876-1950), who proposed the genus in 1906

***Limnocottus godlewskii* (Dybowski 1874)**

patronym not identified but almost certainly in honor of Polish naturalist Wiktor Ignacy Aleksandrovich Godlewski (1831-1900), who was exiled to Siberia, along with Dybowski, after the failed Polish uprising (1863) in Ukraine; he settled in a village by Lake Baikal (where this sculpin is endemic), where he studied the local fauna

***Limnocottus griseus* (Taliev 1955)**

gray, described as having a violet-brown body with a gray belly

***Limnocottus pallidus* Taliev 1948**

pallid, described as having a yellow-brown back and nape, light-yellow sides, and light-gray belly with a lilac tint

***Mesocottus* Gratzianov 1907**

mesos, middle, allusion not explained, perhaps Gratzianov believed this genus was intermediate between two or more related genera (he placed it between *Asprocottus* and *Abyssocottus* in his key); *Cottus*, type genus of family

***Mesocottus haitej* (Dybowski 1869)**

from *Haitej-sagasu*, Buryat (Mongolian dialect) for this sculpin in the Upper Amur River basin

***Neocottus* Sideleva 1982**

neo-, new; *Cottus*, type genus of family, allusion not explained, perhaps connoting a similarity with *Cottus* and/or its uniqueness (e.g., a new kind of sculpin), distinguished by the morphology of its lateral-line system papillae, unique in the family

***Neocottus thermalis* Sideleva 2002**

Latin for hot spring, referring to its occurrence in the region of hydrothermal activity

***Neocottus werestschagini* (Taliev 1935)**

patronym not identified, probably in honor of Gleb Yurievich Werestschagin, limnologist and cladocerozoologist, Leningrad Academy of Sciences, who led an expedition to Lake Baikal (1925-1927), where this sculpin is endemic

***Paracottus* Taliev 1949**

para-, near; *Cottus*, original genus of *P. knerii*

***Paracottus knerii knerii* (Dybowski 1874)**

patronym not identified but almost certainly in honor of Austrian ichthyologist Rudolf Kner (1810-1869)

***Paracottus knerii putorania* Koryakov & Sidelev 1976**

-*ia*, belonging to: Putorana Plateau, Krasnoyarsk Krai, Russia, where type locality (Lake Agatha, Enisei River basin) is situated

***Procottus Gratzianov* 1902**

pro-, before, forward, first, or in front of, allusion not explained but probably referring in some way to its similarity to and/or close relationship with *Cottus*, original genus of the type species *P. jeittelesii*

***Procottus bicolor* Dybowski 1908**

bi-, from *bis* (L.), two, of two colors, proposed as a variety of *P. jeittelesii* with a brownish-red body and yellowish lateral spots

***Procottus gotoi* Sideleva 2001**

in honor of ichthyologist Akira Goto, Hokkaido University (Japan), who studies freshwater sculpins (and who later collaborated with Sideleva on the description of *Cottus kolyomensis* in 2012)

***Procottus gurwicii* (Taliev 1946)**

in honor of “talented” zoologist Georgi Semenovich Gurvich (1906-1942), who was killed in action near Leningrad during WW2

***Procottus jeittelesii* (Dybowski 1874)**

patronym not identified but probably in honor of Ludwig Heinrich Christian Jeitteles (1830-1883), Czech zoologist, paleontologist, geologist, and a pioneer of seismological research in the mid-19th century; he also proposed the genus *Alburnoides* (Cypriniformes: Leuciscidae) in 1861

***Procottus major* Taliev 1949**

Latin for greater, proposed as a subspecies of *P. jeittelesii* that reaches a larger size (35 cm vs. 28 cm)

***Procottus minor* Taliev 1946**

Latin for smaller, allusion not explained, proposed as a subspecies of *P. jeittelesii* that presumably reaches a smaller size (7.5 cm TL)

***Rheopresbe* Jordan & Starks 1904**

rheo-, to flow swiftly; *presbys*, old man or elder (i.e., first born), referring to Takitaroo (“first born of the cataract”), Japanese name of *R. fujiyamae* (= *kazika*)

***Rheopresbe kazika* (Jordan & Starks 1904)**

from *kajika*, Japanese name for river sculpins

***Trachidermus* Heckel 1837**

trachys, rough; *dermus*, skin, referring to scaleless body with thick skin covered with hook-shaped spines with their points turned backwards

***Trachidermus fasciatus* Heckel 1837**

banded, referring to three vertical, dark-brown bands on upper body and/or narrow, brown transverse bands on pectoral, dorsal, anal, and caudal fins