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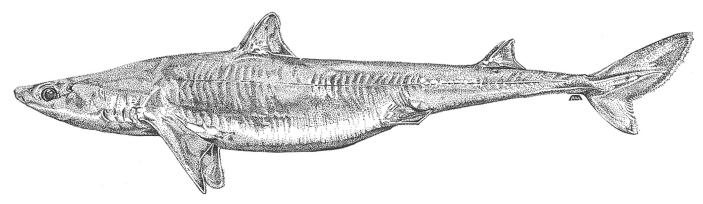
☐ COMMENTS

#### Order SQUALIFORMES

**Dogfish Sharks** 

# Family **SQUALIDAE**

Blainville 1816



Squalus hawaiiensis, adult female. Illustration by Romney McPhie. From: Daly-Engel, T. S., A. Koch, J. M. Anderson, C. F. Cotton and R. D. Grubbs. 2018. Description of a new deep-water dogfish shark from Hawaii, with comments on the Squalus mitsukurii species complex in the West Pacific. ZooKeys 798: 135–157.

# Cirrhigaleus

### Tanaka 1912

cirrus (L.), tuft of hair or fringe, referring to moustache-like nasal barbels on *C. barbifer; galeus*, from *galeós* (Gr. γαλεός), weasel, used by Aristotle for the name of a small shark or dogfish, perhaps alluding to the pointed snouts, swift movements and/or rapacious feeding behavior of smaller predatory sharks<sup>1</sup>

Cirrhigaleus asper (Merrett 1973) Latin for rough, referring to its rough skin texture

Cirrhigaleus australis White, Last & Stevens 2007 Latin for southern, referring to distribution in the temperate Southern Hemisphere

Cirrhigaleus barbifer Tanaka 1912 barba (L.), beard or barbel; -fer, from fero (L.), to have or bear, referring to moustache-like barbels on anterior nasal flaps



Cirrhigaleus barbifer, holotype, male, 85.5 cm TL. From: Tanaka, S. 1912. Figures and descriptions of the fishes of Japan, including the Riukiu Islands, Bonin Islands, Formosa, Kurile Islands Korea, and southern Sakhalin. Imperial University, Tokyo. 9: 145–164, Pls. 41–45.

## **Squalus**

## Linnaeus 1758

squalus (L.), dirty or filthy (i.e., squalid), and an ancient Latin name for marine fishes considered unfit for human consumption, including sharks

Squalus acanthias Linnaeus 1758 Latin for a spiny or prickly thing, referring to its dorsal-fin spines

Squalus acanthias ponticus Myagkov & Kondyurin 1986 -icus (L.), belonging to: Pontos, ancient Greek name for the Black Sea, where it is endemic

Squalus acutipinnis Regan 1908 acutus (L.), sharp or pointed; pinnis, Neo-Latin adjective of pinna (L.), fin, presumably referring to its dorsal-

#### fin spines

Squalus albicaudus Viana, Carvalho & Gomes 2016 albus (L.), white; cauda (L.), tail, referring to white ventral lobe of caudal fin

Squalus albifrons Last, White & Stevens 2007 albus (L.), white; frons (L.), face or brow, referring to white upper ocular margin in most specimens where denticles have been shed

Squalus altipinnis Last, White & Stevens 2007 altus (L.), high; pinnis, Neo-Latin adjective of pinna (L.), fin, referring to its upright dorsal fin

Squalus bahiensis Viana, Carvalho & Gomes 2016 -ensis, Latin suffix denoting place: coast off Bahia, Brazil, where it appears to be endemic

Squalus bassi Viana, Carvalho & Ebert 2017 in honor of Alan John Bass, former shark specialist from the Oceanographic Research Institute in Durban, South Africa, for his valuable contributions to the taxonomy of elasmobranch fishes from southern Africa

*Squalus blainville* (Risso 1827) in honor of zoologist-anatomist Henri Marie Ducrotay de Blainville (1777–1850), who named several shark taxa in 1816 [a noun in apposition, without the patronymic "i"]

Squalus boretzi Dolganov 2019 in honor of ichthyologist Leonid Aleksandrovich Boretz (also spelled Borets), Pacific Scientific Research Fisheries Centre (Vladivostok, Russia), for his contributions to the study of fishes from the Northwest Ridge of the Pacific Ocean

**Squalus brevirostris Tanaka 1917** brevis (L.), short; rostris, Neo-Latin scientific adjective of rostrum (L.), snout, referring to shorter preoral snout length compared with *S. japonicus* 

**Squalus bucephalus** Last, **Séret & Pogonoski 2007** from bouképhalos (βουκέφαλος), bull-headed, from boûs (βοῦς), bull (metaphorically used to mean big), and  $kephal\acute{e}$  (κεφαλή), head, referring to its "relatively bulky" head

**Squalus chloroculus Last, White & Motomura 2007** *chlōrós* (Gr. χλωρός), green; *oculus* (L.), eye, referring to the vivid green eyes of fresh specimens

Squalus clarkae Pfleger, Grubbs, Cotton & Daly-Engel 2018 in honor of Eugenie Clark (1922–2015), University of Maryland (USA), a "pioneer in the field of marine science broadly, and elasmobranch biology in the Gulf of Mexico [where this shark occurs] specifically," serving as a "source of inspiration for countless scientists," including the authors;

 $<sup>^1</sup>$  Strömberg, R. 1943. Studien zur Etymologie und Bildung der griechischen Fischnamen. Göteborg: Wettergren & Kerber. 1–165.

# **Eugenie Clark, the "Shark Lady"**

Eugenie Clark (1922–2015), popularly known as the "Shark Lady," studied the behavior, ecology and taxonomy of fishes, especially sharks, for over 50 years. She was a pioneer in the use of SCUBA for research purposes, and discov-

ered that a milky liquid secreted by the Moses Sole *Pardachirus marmoratus* could serve as a shark repellent. Her 1951 book *Lady with a Spear*, chronicling her adventures in Micronesia and the Red Sea, was a best-seller. She later regretted the title of her book when she became a well-known champion of shark- and ocean-related conservation efforts. Perhaps because she was a woman doing what was perceived to be "man's science," she became the rare biologist-celebrity, featured in many popular magazine articles and television documentaries.

Six fishes have been named after Dr. Clark, four from the Red Sea, her favorite place to dive: a goby, *Callogobius clarki* (Goren 1978); *Enneapterygius clarkae*, a threefin blenny (Tripterygiidae); *Atrobucca geniae* Ben-Tuvia &

Trewavas 1987, a drum or croaker (Sciaenidae); and *Pteragogus clarkae* Randall 2013, a wrasse (Labridae). *Sticharium clarkae* George & Springer 1980, a clinid from southern New South Wales and Western Australia, was described and named by one of her students. The sixth species, *Squalus clarkae*, the only shark named after the Shark Lady, was named posthumously.

Dr. Clark died at the age of 92 on February 25, 2015, in Sarasota, Florida, from non-smoking lung cancer.

her "history of deep sea research and passion for fauna of the Gulf of Mexico inspired the etymology presented herein"

Squalus crassispinus Last, Edmunds & Yearsley 2007 crassus (L.), thick, fat or stout; spinus (L.), thorn, referring to its stout dorsal-fin spines

**Squalus cubensis Howell Rivero 1936** -*ensis*, Latin suffix denoting place: Havana, Cuba, type locality

Squalus edmundsi White, Last & Stevens 2007 in honor of Australian marine ecologist Matthew (Matt) J. Edmunds for his "high-quality, preliminary research" on Australian Squalus during a summer vacation scholarship at CSIRO Marine Laboratories in the early 1990s

Squalus formosus White & Iglésias 2011 -osus (L.), adjectival suffix, i.e., Formosan, referring to Formosa, or Taiwan, type locality

Squalus grahami White, Last & Stevens 2007 in honor of New Zealandborn Australian ichthyologist Kenneth (Ken) J. Graham (b. 1947), who collected holotype and has contributed "greatly" to the knowledge of southeast Australian elasmobranchs

**Squalus griffini Phillipps 1931** patronym not identified but likely in honor of Louis T. Griffin (1870–1935), Auckland Museum, author of several papers on New Zealand fishes

Squalus hawaiiensis Daly-Engel, Koch, Anderson, Cotton & Grubbs 2018 -ensis, Latin suffix denoting place: Hawaiian Archipelago, type locality

**Squalus hemipinnis White, Last & Yearsley 2007** *hemi-*, from *hémisys* (Gr. ἤμισυς), half; *pinnis*, Neo-Latin adjective of *pinna* (L.), fin, referring to strongly notched, v-shaped posterior margin of second dorsal fin

Squalus japonicus Ishikawa 1908 -icus (L.), belonging to: Japan, referring to type locality (Senoumi Bank, Suruga Bay, Honshu)

*Squalus Ialannei* Baranes 2003 in honor of Maurice Lousteau-Lalanne (b. 1955), Ministry for the Protection of the Environment of the Republic of Seychelles, for his help in organizing the expedition that collected holotype, his kindness, and his friendship

**Squalus lobularis Viana, Carvalho & Gomes 2016** Neo-Latin scientific adjective of *lobus*, from *lobós* (Gr.  $\lambda$ oβός), lobe, referring to its diagnostic broad and lobe-like dorsal and pectoral fins

Squalus longispinis Fricke, Durville, Potin & Mulochau 2023 longus (L.),

long;  $\mathit{spinis},$  from  $\mathit{spina}$  (L.), thorn, referring to its long first and second dorsal-fin spines

Squalus mahia Viana, Lisher & Carvalho 2017 Malagasy (national language of Madagascar, where this shark occurs) word for skinny or very thin, referring to its conspicuously slender body, elongate and thin dorsal-fin spines, and narrow caudal fin compared with congeners

Squalus margaretsmithae Viana, Lisher & Carvalho 2017 in honor of Margaret Mary Smith (1916–1987), first director of the J.L.B. Smith Institute of Ichthyology (now the South African Institute for Aquatic Biodiversity), for her "remarkable contributions to ichthyology and her activism for women in science"

**Squalus megalops (Macleay 1881)** big-eyed, from *mégas* (Gr. μέγας), large, and  $\delta ps$  (Gr.  $\tilde{\omega}\psi$ ), eye, referring to the "great length" of its "orbital cavity"

**Squalus melanurus Fourmanoir 1979** black-tailed, from *mélanos* (Gr. μέλανος), genitive of *mélas* (μέλας), black, and *urus*, from *ourá* (Gr. οὑρά), tail, referring to black patch on lower caudal-fin lobe [authorship often given as Fourmanoir & Rivaton 1979]

Squalus mitsukurii Jordan & Snyder 1903 in honor of zoologist Kakichi Mitsukuri (1858–1909), dean of the Imperial University of Tokyo, who was with Jordan and Snyder at Misaki, Japan, when holotype was taken

**Squalus montalbani Whitley 1931** patronym not identified but since name replaces the preoccupied *S. philippinus* of the Philippines, probably in honor of Filipino fisheries biologist Heraclio R. Montalban

Squalus nasutus Last, Marshall & White 2007 Latin for large-nosed, referring to elongated prenarial snout

Squalus notocaudatus Last, White & Stevens 2007 nota (L.), mark; caudatus (L.), tailed, referring to dark bar on caudal fin

**Squalus probatovi Myagkov & Kondyurin 1986** in honor of Soviet ichthyologist A. N. Probatov, who initiated Soviet studies of dogfishes of the southern Atlantic (where this one occurs)

Squalus quasimodo Viana, Carvalho & Gomes 2016 named for the hump-backed character in Victor Hugo's novel The Hunchback of Notre Dame (1831), referring to its conspicuous dorsally humped body

Squalus raoulensis Duffy & Last 2007 -ensis, Latin suffix denoting place:

Raoul Island, New Zealand, type locality

Squalus shiraii Viana & Carvalho 2020 in honor of ichthyologist Shigeru M. Shirai, Tokyo University of Agriculture, for his "valuable" contributions to the systematics of Squaliformes

*Squalus suckleyi* (Girard 1855) in honor of American physician-naturalist George Suckley (1830–1869), who collected holotype