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Order CARANGIFORMES (part 3 of 4)

Suborder Pleuronectoidei (cont.)

Family ACHIRIDAE American Soles

6 genera · 36 species

Achirus Lacepède 1802

tautonymous with Pleuronectes achirus Linnaeus 1758

Achirus achirus (Linnaeus 1758)

a-, without; *cheiros*, hand, referring to lack of pectoral fins (although on most specimens the pectoral fin on eyed side is present but rudimentary, with just 3-4 rays)

Achirus declivis Chabanaud 1940

steep, proposed as a subspecies of A. achirus with a rostral-dorsal profile inclined from the mouth and slightly arched

Achirus klunzingeri (Steindachner 1880)

patronym not identified but almost certainly in honor of German physician and zoologist Carl Benjamin Klunzinger (1834-1914)

Achirus lineatus (Linnaeus 1758)

lined, referring to 7-8 blackish narrow, vertical lines on eyed side of body

Achirus mazatlanus (Steindachner 1869)

-ana, belonging to: Mazatlán, Sinaloa, México, type locality (occurs in eastern Pacific from Baja California to Peru)

Achirus mucuri Ramos, Ramos & Lopes 2009

named for Mucuri River estuary, Mucuri, Bahia, Brazil, type locality

Achirus novoae Cervigón 1982

in honor of Daniel Novoa R., President of the Venezuelan Ministry of Agriculture's National Institute of Fish and Fisheries, who collected part of the type series and has worked for over 10 years on fisheries of the Orinoco River basin (he also edited volume in which description appeared) [although named after a man, "ae" is, per Latin grammar, an acceptable way to form a genitive from nouns that end in "a"]

Achirus scutum (Günther 1862)

shield, allusion not explained, perhaps referring to scales on nape nearly twice as large as those on body

Achirus zebrinus Clark 1936

referring to "zebra-like markings" on eyed side

Apionichthys Kaup 1858

apion, pear, referring to "pear-shaped form" (translation) of A. dumerili; ichthys, fish

Apionichthys asphyxiatus (Jordan 1889)

deprived of air, referring to absence of gill opening on eyed side

Apionichthys dumerili Kaup 1858

in honor of August Duméril (1812-1870), herpetologist and ichthyologist, Muséum national d'Histoire naturelle (Paris), Kaup's "talented" friend, as a "token of [his] esteem and friendship" (translation)

Apionichthys finis (Eigenmann 1912)

edge, boundary or end, allusion not explained nor evident (although it is interesting to note that this species is #128 of the 128 new species Eigenmann described from his 1908 expedition to Guyana, the last new species described in his monograph and its placement coming near the end)

Apionichthys menezesi Ramos 2003

in honor of zoologist Naércio Aquino Menezes (b. 1937), Museu de Zoologia, Universidade de São Paulo (Brazil)

Apionichthys nattereri (Steindachner 1876)

in honor of Johann Natterer (1787-1843), who explored South America and collected specimens for 18 years, including type of this species

Apionichthys rosai Ramos 2003

in honor of ichthyologist Ricardo de Sousa Rosa (b. 1954), Universidade Federal da Paraíba (Paraíba, Brazil)

Apionichthys sauli Ramos 2003

in honor of William Saul (b. 1944), former collection manager of fishes at the Academy of Natural Sciences of Philadelphia, who helped collect type in 1973

Apionichthys seripierriae Ramos 2003

in honor of Dione Seripierri, Head Librarian, Museu de Zoologia da Universidade de São Paulo

Catathyridium Chabanaud 1928

cata-, low; thyridium, small door, referring to low and anterior opening in interbranchial septum (tissue layer separating two halves of gill), in contrast to higher and more posterior opening in Anathyridium (=Achirus)

Catathyridium garmani (Jordan 1889)

in honor of Harvard ichthyologist-herpetologist Samuel Garman (1843-1927), to whose "kindly aid" Jordan has been "much indebted" in his studies of South American fishes

Catathyridium grandirivi (Chabanaud 1928)

of grandis, large and rivus, stream, i.e., Rio Grande Do Sul, Brazil, type locality

Catathyridium jenynsii (Günther 1862)

in honor of English clergyman and naturalist Leonard Jenyns (1800-1893), who reported this flatfish as *Achirus lineatus* in 1842

Catathyridium Iorentzii (Weyenbergh 1877)

in honor of Paul (Pablo) Günther Lorentz (1835-1881), German botanist and mycologist; he drew the attention of Weyenberg (a former colleague) to the existence of this species

Gymnachirus Kaup 1858

gymnos, bare or naked, related and/or similar to Achirus but lacking scales on body

Gymnachirus labyrinthicus Cervigón 2018

Latin for labyrinthine, referring to color pattern on eyed side [provisionally included here; perhaps a synonym of *G. nudus* (R. Robertson, pers. comm.)]

Gymnachirus melas Nichols 1916

black, referring to "uniform inky black" color in spirits (tips of caudal rays whitish)

Gymnachirus nudus Kaup 1858

bare or naked, referring to lack of scales on body

Gymnachirus texae (Gunter 1936)

of Texas (latinized as texa), USA, where type locality (Padre Island, Port Aransas) is situated

Hypoclinemus Chabanaud 1928

hypo-, under; *cli*[*sto*], close (i.e., shut); *nema*, thread, referring to opercular membrane connected to pelvic branch of urohyal, ventrally closing the gill chambers

Hypoclinemus mentalis (Günther 1862)

pertaining to the chin, presumably referring to "very broad" chin region, the lower jaw "somewhat prominent"

Trinectes Rafinesque 1832

tri-, three; nectes, swimmer, referring to "only three fins, dorsal, anal and caudal" of T. scabra (=maculatus) [rudimentary pectoral fin sometimes present on eyed side of body]

Trinectes fimbriatus (Günther 1862)

fringed, referring to broad, serrated fringes on lower lip of eyed side of body

Trinectes fluviatilis (Meek & Hildebrand 1928)

of a river, entire type series "taken in fresh water, from streams below the head of tide"

Trinectes fonsecensis (Günther 1862)

-ensis, suffix denoting place: Gulf of Fonseca (bordering El Salvador, Honduras and Nicaragua), type locality (but occurs in coastal waters, including fresh water, from Gulf of California to Peru)

Trinectes hubbsbollinger Duplain, Chapleau & Munroe 2012

in honor of ichthyologist Carl L. Hubbs (1894-1979) and his student John A. Bollinger, Scripps Institution of Oceanography, who recognized this species as distinct in 1967 but did not name it

Trinectes inscriptus (Gosse 1851)

inscribed, referring to "irregular network of rich, deep brown, confluent lines" on eyed side of head, body, and dorsal and anal fins

Trinectes maculatus (Bloch & Schneider 1801)

spotted, referring to black spots on both sides of body (usually fainter and sometimes absent on blind side)

Trinectes microphthalmus (Chabanaud 1928)

micro-, small; ophthalmus, eye, referring to very small ("très petits") eyes

Trinectes opercularis (Nichols & Murphy 1944)

opercular, referring to "considerable scaleless area" on lower part of opercle on both eyed and blind sides

Trinectes paulistanus (Miranda Ribeiro 1915)

-anus, belonging to: Brazilian state of São Paulo, where co-type locality (Santos) is situated

Trinectes xanthurus Walker & Bollinger 2001

xanthus, yellow; ouros, tail, referring to pale yellow or light-brown caudal fin

Family PARALICHTHODIDAE Peppered Flounder

Paralichthodes Gilchrist 1902

-oides, having the form of: described as "Nearest" to Paralichthys (Paralichthyidae)

Paralichthodes algoensis Gilchrist 1902

-ensis, suffix denoting place: Algoa Bay, South Africa, type locality

Family RHOMBOSOLEIDAE South Pacific Flounders

8 genera · 19 species

Ammotretis Günther 1862

ammos, sand; tretos, hole, allusion not explained, perhaps referring to its ability to quickly bury itself and disappear into a shallow hole in the sand when startled (Peter Last, pers. comm.)

Ammotretis brevipinnis Norman 1926

brevis, short; pinnis, fin, referring to shorter dorsal and anal fins compared to A. rostratus

Ammotretis elongatus McCulloch 1914

elongate, referring to "comparatively narrow form" compared to congeners known at the time

Ammotretis lituratus (Richardson 1844)

blotted or blurred, presumably referring to "some minute dark specks widely dispersed" over eyed side of specimens "after long maceration in spirits"

Ammotretis macrolepis McCulloch 1914

macro-, large; lepis, scale, referring to larger scales compared to A. tudori (=lituratus)

Ammotretis rostratus Günther 1862

beaked, referring to snout produced into a fleshy hook that hangs freely in front of mouth

Azygopus Norman 1926

azygos, unwedded or solitary; pous, foot, referring to pelvic fin of eyed side separated from anal fin

Azygopus flemingi Nielsen 1961

in honor of geologist-zoologist Charles Alexander Fleming (1916-1987), Wellington, New Zealand, member of *Galathea* expedition to Tasman Sea, during which type was collected

Azygopus pinnifasciatus Norman 1926

pinnis, fin; fasciatus, banded, referring to series of short blackish bars on eyed side of dorsal and anal fins

Colistium Norman 1926

etymology not explained, perhaps -ium, like and colis, stalk or cabbage, referring to "olfactory laminae arranged in pinnate form, radiating from a very short median rachis," compared to Ammotretis, in which olfactory laminae are parallel to one another and to main axis of body with no central rachis (=plant stem bearing flower stalks at short intervals)

Colistium guentheri (Hutton 1873)

in honor of ichthyologist-herpetologist Albert Günther (1830-1914), "without whose previous labours it would have been impossible" for Hutton to have "drawn up" his 1872 "Fishes of New Zealand" [originally misspelled *guntheri*]

Colistium nudipinnis (Waite 1911)

nudus, bare or naked; pinnis, fin, referring to lack of scales on fin rays (except for caudal fin)

Pelotretis Waite 1911

pelos, mud; tretis, hole, allusion not explained, perhaps referring to its ability to quickly bury itself and disappear into a shallow hole in shallow mudflats when startled

Pelotretis flavilatus Waite 1911

flavus, yellow; latus, side, referring to yellow blind side of body

Peltorhamphus Günther 1862

pelta, small shield; rhamphus, snout, presumably referring to snout of *P. novaezeelandiae*, "flat, sharp, produced downwards into a curved hook-like appendage"

Peltorhamphus latus James 1972

wide, referring to relatively deep body compared to congeners

Peltorhamphus novaezeelandiae Günther 1862

of New Zealand, where it occurs (also occurs off Norfolk Island)

Peltorhamphus tenuis James 1972

narrow, referring to relatively small body depth compared to congeners

Psammodiscus Günther 1862

psammos, sand; discus, disc, allusion not explained, possibly referring to sand-like color on eyed side of roundish body (occurs on sandy bottoms but probably not named for this since Günther indicated habitat as "?")

Psammodiscus ocellatus Günther 1862

with eye-like spots, referring to a "deep-brown ocellus, edged with whitish, immediately below the middle of the straight portion of the lateral line; another similar but less distinct ocellus above the lateral line, behind the curve"

Rhombosolea Günther 1862

etymology not explained, presumably a combination of *Rhombus* (original genus of *R. plebeius*, now a synonym of *Scophthalmus*, Scophthalmidae) and *Solea* (Soleidae), referring to resemblance to both genera

Rhombosolea leporina Günther 1862

rabbit-like, allusion not explained, perhaps referring to upper jaw slightly overlapping lower

Rhombosolea plebeia (Richardson 1843)

commonplace, allusion not explained, perhaps referring to its being found in most coastal waters around New Zealand; based on an unpublished name coined by Swedish naturalist Daniel Solander (1733-1782)

Rhombosolea retiaria Hutton 1874

-aria, of or belonging to: rete, a net, allusion not explained, perhaps referring to net-like pattern formed by "large and deeply sunken scales" on eyed side of body

Rhombosolea tapirina Günther 1862

tapir-like, allusion not explained, perhaps referring to jaws overlapped anteriorly by a cutaneous flap (like the nose trunk of a tapir)

Taratretis Last 1978

tara, from Taras Bulba, a very fast Australian racehorse (ca. 1974); tretis, close relative of Ammotretis, both of which are capable of moving and burying themselves quickly (Peter Last, pers. comm.)

Taratretis derwentensis Last 1978

-ensis, suffix denoting place: Derwent River estuary off Nutgrove Beach, Tasmania, Australia, type locality (also occurs off New South Wales, Victoria and South Australia)

Family ACHIROPSETTIDAE Southern or Armless Flounders

4 genera · 4 species · Taxonomic note: Nested within family Rhombosoleidae according to some authors.

Achiropsetta Norman 1930

a-, without and cheiros, hand, referring to absence of pectoral fins; psetta, Greek for flatfish

Achiropsetta tricholepis Norman 1930

trichos, hair or ray; lepis, scale, referring to "long spinules directed vertically" on small ctenoid scales, "giving the skin a pilose appearance"

Mancopsetta Gill 1881

mancus, crippled or lame, referring to rudimentary pectoral fin on eyed side and absence on blind side; psetta, Greek for flatfish

Mancopsetta maculata (Günther 1880)

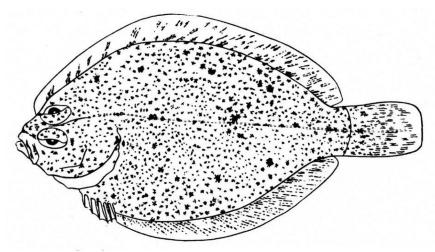
spotted, referring to brown eyed side of body and fins "covered with rounded irregular darker spots"

Neoachiropsetta Kotlyar 1978

neo-, new, i.e., a new genus of "armless" (Achiropsetta) flounder

Neoachiropsetta milfordi (Penrith 1965)

in honor of C. S. Milford, managing director of the South African trawling firm Messrs. Irvin and Jognson (Pty.) Ltd., for his "generous support for marine biological research"



Pseudomancopsetta andriashevi. From: Evseenko, S. A. 1984. A new genus and species of lefteye flounder, Pseudomancopsetta andriashevi, and their position in the suborder Pleuronectoidei. Voprosy Ikhtiologii 24 (5): 709-717. [English translation in Journal of Ichthyology 25 (1):1-10.]

Pseudomancopsetta Evseenko 1984

pseudo-, false, i.e., although this genus may resemble Mancopsetta, such an appearance is false

Pseudomancopsetta andriashevi Evseenko 1984

in honor of Soviet ichthyologist Anatoly Petrovich Andriashev (1910-2009), "famous expert" (translation) on Antarctic fishes

Family ONCOPTERIDAE Remo Flounder

Oncopterus Steindachner 1874

onco-, hook; pterus, fin, referring to first ray of dorsal fin, stiff, crescent-shaped, and movable, contained in deep groove on blind side of head level with upper eye

Oncopterus darwinii Steindachner 1874

in honor of English naturalist Charles Darwin (1809-1882), who wrote about a similar if not identical flounder in his journal notes during the historic second voyage of HMS *Beagle* (1831-1836)

Family SAMARIDAE Crested Flounders

4 genera · 30 species

Plagiopsetta Franz 1910

plagio, oblique, presumably referring to "almost vertical" (translation) upper profile of P. glossa; psetta, Greek for flatfish

Plagiopsetta biocellata Fricke, Golani & Appelbaum-Golani 2018

bi-, two; ocellata, having eye-like spots, referring to pair of large ocelli on posterior half of eyed side of body

Plagiopsetta glossa Franz 1910

tongue, allusion not explained, perhaps referring to tongue-like shape of body

Plagiopsetta gracilis Mihara & Amaoka 2004

slender, referring to shallower body compared to P. glossa and P. stigmosa

Plagiopsetta stigmosa Mihara & Amaoka 2004

marked, referring to distinct jet-black blotch on pectoral fin

Samaretta Voronina & Suzumoto 2017

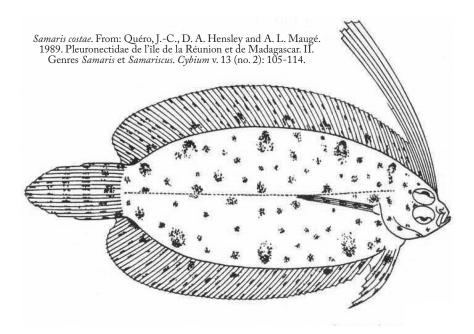
-etta, diminutive, in this case evoking the related and similar genera Samaris and Samariscus

Samaretta perexilis Voronina & Suzumoto 2017

per, very; exilis, slender, referring to its "very lean" (translation) body

Samaris Gray 1831

etymology not explained nor evident; possibly coined by naturalist John Reeves (1774-1856), who discovered *S. cristatus* while working as a tea inspector in China



Samaris chesterfieldensis Mihara & Amaoka 2004

-ensis, suffix denoting place: Chesterfield Plateau, New Caledonia area, type locality

Samaris costae Quéro, Hensley & Maugé 1989

in honor of marine biologist Maria-José Costa, University of Lisbon, the authors' collaborator in studying the fishes of Réunion Island (near type locality), western Mascarenes, southwestern Indian Ocean

Samaris cristatus Gray 1831

crested, referring to first 13 or 14 rays of dorsal fin greatly prolonged (except in very young)

Samaris macrolepis Norman 1927

macro-, large; lepis, scale, referring to larger scales compared to S. cristatus, only known congener at the time

Samaris spinea Mihara & Amaoka 2004

of thorns, referring to 2-5 spines along both dorsal and ventral margins of caudal peduncle

Samariscus Gilbert 1905

diminutive of Samaris, i.e., Samaris-like

Samariscus asanoi Ochiai & Amaoka 1962

in honor of Hirotoshi Asano, Kyoto University, who collected type

Samariscus corallinus Gilbert 1905

coralline, referring to "coralline-red" color of head and body in spirits

Samariscus desoutterae Quéro, Hensley & Maugé 1989

in honor of Martine Desoutter-Méniger, Muséum national d'Histoire naturelle (Paris), with whom the authors worked during their flatfish studies

Samariscus filipectoralis Shen 1982

filum, thread; pectoralis, pectoral, referring to first ray of pectoral fin on eyed side of body, filamentous and elongated, slightly less than twice length of head

Samariscus hexaradiatus Díaz de Astarloa, Causse & Pruvost 2014

hexa, six; radiatus, rayed, referring to 6 pectoral-fin rays on eyed side of body, compared to 4 or 5 among congeners

Samariscus huysmani Weber 1913

patronym not identified but almost certainly in honor of J. W. Huysman, artist of the *Siboga* expedition (1898-1899) to Indonesia, during which type was collected

Samariscus inornatus (Lloyd 1909)

unadorned, referring to absence of prolonged dorsal-fin rays as in Samaris cristatus, its presumed congener at the time

Samariscus japonicus Kamohara 1936

Japanese, referring to its occurrence in Japanese waters (e.g., East China Sea)

Samariscus latus Matsubara & Takamuki 1951

wide, allusion not explained, perhaps referring to wider (deeper) body compared to S. japonicus

Samariscus leopardus Voronina 2009

referring to leopard-like pattern of small black spots on eyed side of head, fins and body

Samariscus Iongimanus Norman 1927

longus, long; manus, hand, referring to pectoral fin on eyed side twice as long as head

Samariscus luzonensis Fowler 1934

-ensis, suffix denoting place: Luzon Island, Philippines, type locality (also occurs off Viêt Nam)

Samariscus macrognathus Fowler 1934

macro-, long; gnathus, jaw, referring to "greatly larger mouth, longer maxillary, [and] longer mandible" compared to the closely related S. inornatus

Samariscus maculatus (Günther 1880)

spotted, referring to series of five "distant" black spots along dorsal profile, a similar series along anal profile, and a third series of three spots along lateral line of eyed side

Samariscus multiradiatus Kawai, Amaoka & Séret 2008

multi-, many; radiatus, rayed, referring to more dorsal- and anal-fin rays compared to congeners

Samariscus neocaledonia Kawai, Amaoka & Séret 2011

-ia, belonging to: New Caledonia, where it appears to be endemic

Samariscus nielseni Quéro, Hensley & Maugé 1989

in honor of Jørgen G. Nielsen (b. 1932), Curator of Fishes, Zoological Museum of Copenhagen, author of many works on flatfishes

Samariscus sunieri Weber & de Beaufort 1929

in honor of Armand Louis Jean Sunier (1886-1974), Dutch biologist and later director of Artis Zoo Amsterdam

Samariscus triocellatus Woods 1960

tri-, three; ocellatus, with eye-like spots, referring to three ocelli just below lateral line on eyed side

Samariscus xenicus Ochiai & Amaoka 1962

strange, referring to its dwarf form, reaching 61.5 mm SL

Family POECILOPSETTIDAE Bigeye Flounders

3 genera · 21 species

Marleyella Fowler 1925

-ella, diminutive connoting endearment: in honor of Natal fisheries officer Harold Walter Bell-Marley (1872-1945), who collected many South African fishes for Fowler

Marleyella bicolorata (von Bonde 1922)

bi-, two; colorata, colored, presumably referring to bluish black color, tinted with green, on both sides of body

Marleyella maldivensis Norman 1939

-ensis, suffix denoting place: Maldives, Indian Ocean, type locality

Nematops Günther 1880

nema-, thread; ops, eye, referring to tentacle, nearly as long as eye, attached to posterior half of eyes of N. microstoma

Nematops grandisquama Weber & de Beaufort 1929

grandis, large; squamus, scale, referring to larger scales compared to N. microstoma

Nematops macrochirus Norman 1931

macro-, long or large; cheiros, hand, referring to pectoral fin on eyed side, slightly longer than length of head

Nematops microstoma Günther 1880

micro-, small; stoma, mouth, referring to narrow cleft of mouth

Nematops nanosquama Amaoka, Kawai & Séret 2006

nanus, small; squama, scale, having the smallest scales in the genus

Poecilopsetta Günther 1880

poecilio-, varicolored, presumably referring to color pattern of P. colorata; psetta, Greek for flatfish

Poecilopsetta albomaculata Norman 1939

albus, white; maculata, spotted, referring to four series of rounded, white spots, one on either side of straight portion of lateral line and one near each edge of eyed side of body

Poecilopsetta beanii (Goode 1881)

in honor of Goode's associate, ichthyologist Tarleton H. Bean (1846-1916), U.S. National Museum

Poecilopsetta colorata Günther 1880

colored, presumably referring to numerous black spots on head and body, blackish dorsal and anal fins, large black spot near upper and lower margins of caudal fin, and large black spot occupying nearly entire pectoral fin, all on eyed side of body

Poecilopsetta dorsialta Guibord & Chapleau 2001

dorsi-, dorsal; alta, high, referring to long first dorsal-fin ray and overall height of dorsal fin

Poecilopsetta hawaiiensis Gilbert 1905

-ensis, suffix denoting place: Pailolo Channel, between Molokai and Maui, Hawaiʻi, type locality (endemic to Hawaiian Ridge)

Poecilopsetta inermis (Breder 1927)

unarmed, referring to its "weak" (i.e., thin and deciduous) cycloid scales

Poecilopsetta macrocephala Hoshino, Amaoka & Last 2001

macro-, large; cephala, head, referring to relatively larger head compared to the similar P. natalensis and P. vaynei

Poecilopsetta multiradiata Kawai, Amaoka & Séret 2010

multi-, many; radiata, rayed, referring to more dorsal-fin rays compared to congeners

Poecilopsetta natalensis Norman 1931

-ensis, suffix denoting place: KwaZulu-Natal, South Africa, type locality (occurs in western Indian Ocean from East and South Africa, Madagascar and Réunion [western Mascarenes] east to Maldives)

Poecilopsetta normani Foroshchuk & Fedorov 1992

in honor of ichthyologist J. R. (John Roxborough) Norman (1898-1944), British Museum, who made "great contributions" (translation) to the study of flatfishes and described three species of *Poecilopsetta*

Poecilopsetta pectoralis Kawai & Amaoka 2006

referring to long pectoral fin on eyed side

Poecilopsetta plinthus (Jordan & Starks 1904)

brick, allusion not explained, possibly referring to "pinkish slaty-brown" color on eyed side, "usually mottled with black"

Poecilopsetta praelonga Alcock 1894

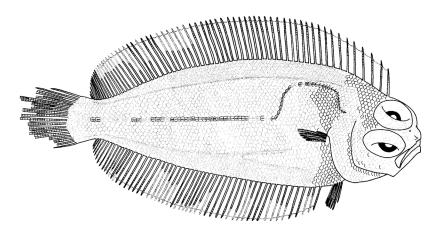
prae-, in front of; longus, long, allusion not explained, perhaps referring to more elongate and forward-projecting head compared to P. maculosa (=colorata), described in same publication

Poecilopsetta vaynei Quéro, Hensley & Maugé 1988

in honor of scientific illustrator Jean-Jacques Vayne, who provided the illustrations in the authors' paper, and with whom they have been working since 1973

Poecilopsetta zanzibarensis Norman 1939

-ensis, suffix denoting place: near Zanzibar, Tanzania, western Indian Ocean, type locality



Poecilopsetta macrocephala. From: Hoshino, K., K. Amaoka and P. R. Last 2001. A new dextral flounder, *Poecilopsetta macrocephala* (Pisces: Pleuronectiformes: Poecilopsettidae), from northwestern Australia. *Species Diversity* v. 6: 73–81.