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TAXON NAMES OF THE TRICLADIDA MARICOLA (PLATYHELMINTHES): ADDITIONS AND EMENDATIONS

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ABSTRACT

We formally correct the spelling of several taxon names of marine planarians. The authorship and date of publication are given for all current higher taxa (from the rank of subfamily and higher) in the Tricladida Maricola.

INTRODUCTION

Precisely 80 years after the first monographic treatise on the marine triclads or Maricola by Wilhelmi (1909) the senior author published his modern monograph on this group of flatworms, including a phylogenetic and historical biogeographic analysis (Sluys 1989). The taxonomic part of the last-mentioned study subsequently formed the basis for an electronic version of a new key to the species, descriptions, and illustrations in the monograph (Sluys 1994).

Unfortunately, the 1989 monograph copied some incorrect taxonomic spellings from previous literature, as well as introduced some new spelling errors in newly proposed taxon names. The purpose of the present paper is to formally provide emendations of these taxon names. A few of the old incorrect spel-

lings in the Tricladida Maricola were already corrected by Kawakatsu et al. (1989); for the sake of completeness the corrections that are relevant for current taxonomy are mentioned in the present paper. Based on the linguistic analysis of Kawakatsu et al. (1989), the CD-ROM version of the taxonomic part of the senior author's monograph (Sluys 1994) introduced corrected spellings regarding species names in the genus *Procerodes*. However, a CD-ROM does not constitute a publication in the sense of the International Code of Zoological Nomenclature (1985; cf. Chapt. III, Arts. 7-9). Therefore, the present paper represents the first formal emendation of these specific epithets in the genus *Procerodes*. For the sake of completeness, again, it is mentioned below of which taxon names the spellings were changed in the

CD-ROM version (this is done by including these altered names between brackets at the end of the synonymy list of a species).

For the higher taxa (from the rank of subfamily and higher) mentioned in the 1989 monograph the present paper provides authorship and date of publication for mainly historical and bibliographic reasons and for correcting the publication date of a taxon described by Hallez (1892). Hallez' dates have been notoriously difficult to determine (thus forming the source of much misunderstanding) because his catalogues, in which he introduced various names, were published over a period of four years in several volumes, each consisting of several issues published at different dates.

Several higher taxon names for the Maricola were either re-introduced or coined by Sluys in his 1989 monograph. The authorship and date of publication for these taxa are subjected to Articles 36 and 37 of the ICZN (1985) on the Principle of Coordination and Nominotypical Taxa, respectively. The present paper provides authorship and date for these higher taxa in order to facilitate future correct use of this information.

For the species mentioned in this paper an up to date and complete list of synonyms is provided (something that was specifically *not* attempted in the 1989 monograph because its focus was more on modern systematics than on alpha-taxonomy).

For citation of original figures in cited papers, the following abbreviations are employed: DB, dorsal view of the body; DH, dorsal view of the head; DVB, dorsal and ventral views of the body; DVH, dorsal and ventral views of the head; FCA, schematic figure of the copulatory apparatus; FGO, schematic figure of the genital organs; HI, histological figures; PCA, photographs of the copulatory apparatus. Furthermore, the following abbreviations are used: emend., emended taxon name; nom. nud., unavailable name (ICZN 1985, Arts. 12, 13); n. gen., new genus; n. subfam., new subfamily.

ADDITIONS

- Phylum PLATYHELMINTHES Gegenbaur, 1859
- Class TURBELLARIA Ehrenberg, 1831
- Order Seriata Bresslau, 1933
- Suborder Tricladida Lang, 1884
- Infraorder MARICOLA Hallez, 1892
- Superfamily Cercyroidea Böhmig, 1906
- Family Centrovarioplanidae Westblad, 1952
- Family Cercyridae Böhmig, 1906
- Tribus Cercyrini Böhmig, 1906
- Family Meixnerididae Westblad, 1952*
- Superfamily Bdellouroidea Diesing, 1862
- Family Uteriporidae Böhmig, 1906
- Subfamily Uteriporinae Böhmig, 1906
- Subfamily Ectoplaninae Bresslau, 1933
- Family Bdellouridae Diesing, 1862
- Subfamily Bdellourinae Diesing, 1862
- Subfamily Palombiellinae Sluys, 1989
- Superfamily Procerodoidea Diesing, 1862
- Family Procerodidae Diesing, 1862

Note: The taxon Turbellaria has been shown to be a paraphyletic group (Ehlers 1985) and therefore should no longer be used in formal classifications.

* See below

EMENDATIONS

An emendation of the family Meixneridae is given first. The emended species names are arranged according to the order of species listed in Sluys (1989: 74-77).

- Family Meixnerididae Westblad, 1952 emend.
- Type genus: *Meixnerides* Westblad, 1952.
- Meixnerinae n. subfam. Westblad, 1952: 47.
- Meixneridae: Sluys, 1989: 75, 126.

Note: Since the type genus is *Meixnerides*, the suffix of the family-group is "-ididae".

- Genus *Pacifides* Holmquist & Karling, 1972
- Pacifides gladiatoris* Sluys, 1989
- Pacifides gladiatoris* Sluys, 1989: 98-101, figs. 57-61 (DB, FCA, FGO). New species. Host: Sea-horses of the Indo-Pacific (probably The Philippines) cultured in a marine aquarium in the Horniman Museum, London, United Kingdom.

[*Pacifides gladiator*]: Sluys, 1994: The Marine Planarians of the World (CD-ROM).

Note: The specific name is from the genitive case of the Latin masculine noun *gladiator* (*gladius* + *ator*), a swordsman. *Pacifides gladiatoris* is a valid name.

Genus *Allogenus* Sluys, 1989

Allogenus kerguelenense (Hyman, 1958) emend.

Procerodes kerguelenensis Hyman, 1958: 283-284, 287, figs. 4-5 (DB, FCA, FGO). New species. Kerguelen Island, Kerguelen-Gaussberg Ridge, Southern Ocean, France.

Procerodes kerguelenensis: Sluys, 1986: 258-259.

Procerodes kerguelenensis: Sluys & Ball, 1989: 924.

Allogenus kerguelenensis: Sluys, 1989: 147-149, figs. 111-113 (DB, FCA, FGO), 445, pl. 5, fig. B (PCA). Macquarie Island, Indian-Antarctic Ridge, Australia.

Note: *Allogenus* is from *allos* (Greek, different) and *genus* (Latin, genus). Although this generic name is a hybrid (cf. ICZN, Append. D, II, 11), it is an available name. Changing “-ensis” to “-ense” is required since the genus name is neuter.

Genus *Pentacoelum* Westblad, 1935

Pentacoelum hispaniense Sluys, 1989 emend.

Pentacoelum hispaniensis Sluys, 1989: 229-232, figs. 192-194 (DB, FCA, FGO). New species. Algemesi, a village 30-40 km S of Valencia, Spain.

Note: Changing “-ensis” to “-ense” is required since the genus name is neuter.

Genus *Synsiphonium* Hallez, 1911

Synsiphonium angustum Sluys & Ball, 1989 emend.

Synsiphonium angustus Sluys & Ball, 1989: 950-953, figs. 30-34 (DB, FCA, FGO). New species. St. Kilde Rocks, Kaikoura, S. Island, New Zealand.

Synsiphonium angustus: Sluys, 1989: 278-282, figs. 250-254 (DB, FCA, FGO). New Zealand.

Note: The generic name *Synsiphonium* is a neuter compound Greek noun and therefore the ending of the specific epithet must be changed from “-us” into “-um”.

Genus *Procerodes* Girard, 1850

Procerodes plebeius (Schmidt, 1861) emend.

Haga plebeia Schmidt, 1861: 17-18, Taf. III, figs. 6-7 (DB, FCA, FGO). New species. Cephalonia, Argostoli, Greece.

Haja plebeia: Schmidt, 1861: 29. Spelling error.

Haga plebeja: Diesing, 1862: 501. Spelling error.

Gunda plebeia: Lang, 1881c: 192. Synonyms: *Haga plebeia* Schmidt, 1861; *Gunda segmentata* Lang, 1881.

Haga plebeja: Bergendal, 1892: 317. Spelling error.

Procerodes plebeia: Hallez, 1892: 339, 342.

Procerodes plebeia: Hallez, 1894: 120, 123-124.

Gunda plebeia: Bergendal, 1896: 3.

Gunda (=Haga) plebeia: Bergendal, 1896: 55.

Haga (=Gunda?) plebeia: Bergendal, 1896: 108.

Procerodes plebeia: Böhmig, 1906: 351.

Procerodes jaqueti Böhmig, 1906: 345, 356, 466-467, Taf. XVI, fig. 2 (FCA), Taf. XIX, fig. 8 (DVB). New species. Black Sea.

Haga plebeia: Wilhelmi, 1908: 206.

Procerodes plebeia: Wilhelmi, 1909b: 267, 271.

Procerodes plebeja Wilhelmi, 1909b: 271. Spelling error.

Procerodes jaqueti: Wilhelmi, 1909b: 267, 271. Synonym: *Planaria ulvae* Örsted, 1843 (in part).

Procerodes plebeia: Wilhelmi, 1909c: 129, fig. 33 d (DB), 133, fig. 39 a-e (DB), 321-323, fig. 69 (DB, FGO); Taf. 1, figs. 11-12 (DB, cocoon), Taf. 2, fig. 13 (DB), Taf. 3, fig. 8 (DB), Taf. 7, fig. 2 (HI), Taf. 8, fig. 15 (HI), Taf. 15, fig. 12 (FCA). Argostólion, Kefallinía, Greece.

Procerodes (Haga) plebeia: Wilhelmi, 1909c: 321, fig. 69 (DB, FGO). See above.

Procerodes jaqueti: Wilhelmi, 1909c: 133, fig. 41 a-b (DB), 323-324; Taf. 16, fig. 8 (FCA). Black Sea.

Procerodes plebeja: Wilhelmi, 1911: 67-68. Spelling error.

Procerodes jaqueti: Wilhelmi, 1911: 68-69. Synonymy: *Planaria ulvae* Örsted, 1843, in Czerniasvsky (1872 and 1881).

Procerodes jacqueti: von Graff, 1917: Taf. XXXI, fig. 21 (DH in colour). Spelling error.

Procerodes jaqueti: von Graff, 1917: Taf. LVII, fig. 8 (FCA).

Procerodes ireneae den Hartog, 1968: 209, 211, 213, 216-217, figs. 7 B (DB), 2 B-C (FGO). New species. Wembury beach, Plymouth, England, United Kingdom.

Procerodes plebeia: Sluys, 1986: 259, 261, fig. 1 (map showing the geographic distribution of 5 taxonomic groups within *Procerodes*).

Procerodes plebeia: Sluys, 1987: 373, 378-380, 383-384, fig. 3 (FCA). Lulworth Cove, Dorset, England United Kingdom.

Procerodes jacqueti: Sluys, 1987: 378-379. Black Sea. Spelling error.

Procerodes ireneae: Sluys, 1987: 378-379. Dorset, England, United Kingdom.

Procerodes plebeia: Sluys, 1989: 285-288, figs. 257-259 (DB, FCA, FGO), 451, pl. 11, figs. D-E (PCA). Crete, Greece; Black Sea; Plymouth; Lulworth Cove, Dorset, United Kingdom.

Procerodes jacqueti: Sluys, 1989: 285, 288. Spelling error.

- [*Procerodes plebeius*]: Sluys, 1994: Marine Planarians of the World (CD-ROM).
- Note: *Procerodes jaqueti* Böhmig, 1906, and *Procerodes ireneae* den Hartog, 1968 have been established as junior synonyms of *Procerodes plebeius* (Schmidt, 1861) (Sluys 1987).
- Changing from “-a” to “-us” is required since the genus name *Procerodes* is masculine. Cf. ICZN (1985), Arts. 30 (a, b), 31 (b), 34 (b).
- Procerodes lacteus* Ijima & Kaburaki, 1916
- Procerodes lactea* Ijima & Kaburaki, 1916: 153-154, figs., 1-2 (DB, FCA). New species. Yukanki and Meleya, Sakhalin, Russia.
- Procerodes lactea*: Kaburaki, 1922: 2-3, 22, 31, figs. 1, 4 (DB, FCA, FGO), pl. I, fig. 1 (DB). Yukanki and Meleya, Sakhalin, Russia.
- Procerodes lacteus*: Kawakatsu, Nunomura & Suzuki, 1989: 42. Emendation.
- Procerodes lactea*: Sluys, 1989: 299-301, figs. 266-267 (DB, FCA, FGO; after Kaburaki, 1922)
- [*Procerodes lacteus*]: Sluys, 1994: Marine Planarians of the World (CD-ROM).
- Note: The emendation of the specific name “*lactea*” represents a mandatory change; a complete list of synonyms was given by Kawakatsu et al. (1989, p. 42)
- Procerodes anatolicus* (Benazzi, 1981) emend.
- Debeauchampia anatolica* Benazzi, 1981: 107-111, figs. 1-4 (FCA, PCA). New species. Vilayet Sinop, Gerze, Turkey.
- Debeauchampia anatolica*: Kawakatsu & Chapman, 1983: 28-30.
- Debeauchampia anatolica*: Kawakatsu & Mitchell, 1984: 496.
- Procerodes anatolica*: Sluys, 1987: 383.
- Procerodes anatolica*: Sluys, 1989: 301-303, fig. 268 (FCA). Vilayet Sinop, Gerze, Turkey.
- [*Procerodes anatolicus*]: Sluys, 1994: Marine Planarians of the World (CD-ROM).
- Note: See second part of “Note” on *Procerodes plebeius* (Schmidt, 1861).
- Procerodes lobatus* (Schmidt, 1861) emend.
- Gunda lobata* Schmidt, 1861: 14-15, Taf. II, figs. 9-10 (DB, FCA, FGO). New species. Corfu, near El Canon, Greece.
- Gunda lobata*: Diesing, 1862: 506.
- Planaria ulvae*: Uljanin, 1870: 31-33, Taf. 3, figs. 12-18, 20. Sevastopol, Black Sea, Ukraine. Cited from Wilhelmi (1911, p. 47). [nec *Planaria ulvae* Orsted, 1843].
- Synhaga auriculata* Czerniavsky, 1872: 106-107. New genus and new species. Cited from Wilhelmi (1911), pp. 43, 47].
- Synhaga auriculata*: Czerniavsky, 1881: 222-223; Taf. 4, fig. 9. Cited from Wilhelmi (1911), pp. 43, 47.
- Gunda segmentata* nom. nud. Lang, 1881a: 64-74; Taf. VI, figs. 7-12 (HI).
- Gunda lobata*: Lang, 1881a: 65.
- Gunda segmentata* nom. nud. Lang, 1881b: 87.
- Gunda segmentata* Lang, 1881c: 189-214, 231-244; Taf. XII, figs. 1, 4-7, 11-13 (DB, FGO, HI), Taf. XIII, figs. 14-25 (FGO, HI), Taf. XIV, figs. 39, 41, 45-46, 55-57, 59, 61 (FGO, HI). New species. Messina, Sicily, Italy.
- Gunda segmentata*: Lang, 1881d: 542-552, figs. 6-7 (DB, FGO, HI). Messina, Sicily, Italy.
- Gunda segmentata*: Bergendal, 1892: 315-318; Taf. 32, fig. 16 (HI).
- Procerodes lobata*: Hallez, 1892: 339, 342.
- Procerodes segmentata*: Hallez, 1892: 339, 342.
- Cercyra auriculata*: Hallez, 1892: 345.
- Procerodes lobata*: Hallez, 1894: 120, 124.
- Procerodes segmentata*: Hallez, 1894: 120, 124.
- Cercyra auriculata*: Hallez, 1894: 126.
- Gunda segmentata*: Bergendal, 1896: 1-115; Taf. III, figs. 23, 27 (FCA), Taf. V, figs. 41 a-b (FGO), Taf. VI, fig. 54 (HI).
- Gunda lobata*: Bergendal, 1896: 3, 19, 55.
- Procerodes lobata*: Böhmig, 1906: 350-351.
- Procerodes segmentata*: Böhmig, 1906: 351-352, 359, 467-472; Taf. XVI, fig. 3 (FCA), Taf. XIX, fig. 3 (DB). Black Sea.
- Synhaga auriculata*: Böhmig, 1906: 372.
- Procerodes lobata* Wilhelmi, 1908: 205-208. Mediterranean Sea and Adriatic Sea. Synonyms: *Procerodes segmentata* (Lang, 1881); *Synhaga auriculata* Czerniavsky, 1872.
- Procerodes lobata*: Wilhelmi, 1909a: 253.
- Procerodes lobata*: Wilhelmi, 1909b: 267, 270-271, 277-278. Mediterranean Sea and Black Sea. Synonyms: *Gunda segmentata* Lang, 1881; *Synhaga auriculata* Czerniavsky, 1872.
- Procerodes lobata*: Wilhelmi, 1909c: 25, fig. 3 (carnivorous behaviour), 40, fig. 10(DB), 83, fig. 18 (DVB), 90, fig. 19 a-c (encysted specimens), 93, fig. 20 (carnivorous behaviour), 99, fig. 24 (a specimen of *Tetrahorium* sp. attached to the body of *Procerodes lobatus*), 102, figs. 25-26 (copulation), 105, fig. 29 (movement), 129, fig. 33 e (DB), 133, figs. 34, 37, 42 (DB), 309-315, figs. 63-65 (DB, FGO); Taf. 1, figs. 1-10 (DB, FGO, cocoon), Taf. 2, figs. 1-3, 5, 8, 12, 14, 17-19, 28 (DB), Taf. 3, figs. 1-2 (DB, FGO), Taf. 4, figs. 1, 3, 10, 14-15, 21 (HI), Taf. 5, figs. 7-8, 10 (FGO, HI), Taf. 6, figs. 1-3, 9-

- 19, 21, 24, 26, 29-30, 32 (HI), Taf. 7, figs. 1a, 4 (HI), Taf. 8, figs. 1-2, 6, 8, 19-29, 40-43 (DB, HI, locomotion, etc.), Taf. 9, figs. 1-2, 5, 8-9, 12, 15-18 (DB, HI), Taf. 10, figs. 6-32, 34, 36, 38-39, 41-42 (DB, regeneration), Taf. 12, figs. 1-15 (HI), Taf. 14, fig. 7 (HI), Taf. 15, figs. 1, 5, 14-15 (HI, FCA, FGO), Taf. 16, fig. 3 (FCA). Mediterranean and Black Sea. Synonyms: *Gunda lobata* Schmidt, 1861; *Planaria ulvae* in Uljanin (1870) [nec *Planaria ulvae* Örsted, 1843]; *Synhaga auriculata* Czerniavsky, 1872; *Gunda segmentata* Lang, 1881.
- Procerodes (Gunda) lobata*: Wilhelmi, 1909c: 310, fig. 63 (DB, FGO). See above.
- Procerodes lobata (ulvae)*: Wilhelmi, 1909c: 311, fig. 64 (DB). See above.
- Procerodes lobata (S. auriculata)*: Wilhelmi, 1909c: 312, fig. 65 (DB, FGO). See above.
- Procerodes lobata*: Wilhelmi, 1911: 47-57. Synonyms: *Planaria ulvae* in Uljanin (1870); *Synhaga auriculata* Czerniavsky, 1872; *Gunda segmentata* Lang, 1881; *Cercyra auriculata* (Czerniavsky, 1872).
- Procerodes lobata*: Steinmann & Bresslau, 1913: 101, textfig. 53 (locomotion), 118, 174-175, textfig. 78 (right-side fig., DB).
- Procerodes lobata (segmentata)*: von Graff, 1912: XXIV.
- Procerodes lobata*: von Graff, 1913: 2710, fig. 2 (DB, HI), 2821, figs. 59-62 (DB, HI), 2832, fig. 66 (HI), 2833, figs. 67-68 (HI).
- Procerodes lobata*: von Graff, 1914: 2851, fig. 81 (HI), 2853, fig. 82 (HI), 2858, fig. 86 (HI).
- Procerodes lobata*: von Graff, 1915: 2983, fig. 130 (FGO), 3000, fig. 131 (FGO), 3136, fig. 158 (locomotion).
- Procerodes lobata*: von Graff, 1916: 3265, fig. 185 (HI).
- Procerodes lobata*: von Graff, 1917: 3292, fig. 216 B (DB, supernumerary eyes), 3293, fig. 207 B-C (animals with duplicated pharynges), 3308, fig. 216 (HI), 3350, fig. 248 (carnivorous behaviour); Taf. XXXI, figs. 1-5 (DB in colour), Taf. XXXV, fig. 15 (HI), Taf. XXXVI, fig. 6 (HI), Taf. XXXVII, fig. 3 (HI), Taf. XLI, figs. 2-3 (HI, FGO), Taf. LVII, fig. 9 (FCA), Taf. LXIV, fig. 1 (HI).
- Procerodes lobata*: Lus, 1926: 203-226, figs. 11 a-c, 17 a-c (regeneration). Black Sea.
- Procerodes lobata*: Beklemishev, 1927: 187. Odessa, Black Sea, Ukraina.
- Procerodes lobata*: Bresslau, 1933: 194, fig. 190 (DVB, carnivorous behaviour).
- Procerodes lobata*: Zabusova, 1945: 84-85. Littoral waters of the Black Sea, Crimea, Ukraina.
- Procerodes ulvae*: Zabusova, 1945: 84-85. Littoral waters of the Black Sea, Crimea, Ukraina.
- Procerodes lobata*: Chandebois, 1951: 404-408, figs. A-E (regeneration).
- Procerodes lobata*: Chandebois, 1954: 134-137, figs. 1 A, 2 A (DH, DVB, FGO). Gulf of Marseilles, France.
- Procerodes lobata*: Chandebois, 1955: 139-144, figs. 1-2 A-G (regeneration).
- Procerodes lobata*: Chandebois, 1957: 1-93, figs. 1-111 (DB, FGO, HI, regeneration). Gulf of Marseilles, France.
- Procerodes lobata*: Beklemishev, 1958: 174-176, fig. 84 B (DB, FGO), 179, 183.
- Procerodes lobata*: Chandebois, 1959: 434-437, figs. 1-5 (DB, regeneration).
- Procerodes lobata*: Beklemishev, 1960: 257, fig. 138 (DH, HI).
- Procerodes lobata*: de Beauchamp, 1961: 109-110, figs. 53-54 (DB, FCA, FGO).
- Procerodes lobata*: den Hartog, 1968: 209, 211, 213, 217-220, figs. 1 C (DB), 2 D (FGO). Plymouth, England, United Kingdom.
- Procerodes lobata*: Mack-Fira & Cristea-Natasesco, 1971: 226. Littoral waters of Black Sea, Roumania.
- Procerodes lobata*: Mack-Fira, 1974: 249 (table 1), 254. Littoral waters of Black Sea, Roumania.
- Procerodes lobata*: Benazzi & Benazzi-Lentati, 1976: 27.
- Procerodes lobata*: Chandebois, 1976: 10, fig. 5 B-D (regeneration), 118, fig. 42 A-H (regeneration), 136, fig. 45 A-B (regeneration), 138, fig. 46 A-C (regeneration). Gulf of Marseilles, France.
- Procerodes lobata*: Ball, 1979: 1820-1821, fig. 1 (idiogram). Chromosome nos.: $n=7$, $2n=14$. Corfu, Greece.
- Procerodes lobata*: Galleni & Puccinelli, 1979: 961, 966, fig. 1 B (idiogram); pl. 1, figs. A-B (photomicrographs showing metaphasic plates). Chromosome nos.: $n=7$, $2n=14$. Jennycliff in Plymouth Sound, England, United Kingdom.
- Procerodes lobata*: Zghal & Tekaya, 1980: 371-376, 378-379, figs. 1 b, 3 (DH, DB, FGO). Gulf of Tunis, Tunisia.
- Procerodes lobata*: Ball & Reynoldson, 1981: 48-49, figs. 9 A-B (DB, FCA). United Kingdom.
- Procerodes lobata*: Sluys, 1986: 259-261, fig. 1 (map showing the geographic distribution of 5 taxonomic groups within *Procerodes*).
- Procerodes lobata*: Sluys, 1987: 374-375, 377, 381-383, fig. 4 (FCA). Naples, Trieste, and Bocca di Fiume Morto near Pisa, Italy.
- Procerodes lobata*: Sluys, 1989: 307-311, figs. 272-273 (DB, FCA), 451, pl. 11, fig. F (PCA). Corfu, near El Canon, Greece; Mallorca, Spain; Plymouth, Wembury, England, United Kingdom.
- [*Procerodes lobatus*]: Sluys, 1994: Marine Planarians of the World (CD-ROM).

Note: *Synhaga auriculata* Czerniavsky, 1872, and *Gunda segmentata* Lang, 1881 have been established as junior synonyms of *Procerodes lobatus* (Schmidt, 1861) (cf. Sluys 1987, 1989). See also second half of the "Note" on *Procerodes plebeius* (Schmidt, 1861).

Procerodes pacificus Hyman, 1954 emend.

Procerodes pacifica Hyman, 1954: 1-4, figs. 1-3 (DVB, FCA, FGO). New species. Sunset Cliffs, near San Diego, California, U. S. A.

Procerodes pacifica: Holleman, 1972: 405-408, figs. 1-2 (DB, FCA, FGO). Deadman's Bay, San Juan Island, California, U. S. A.

Procerodes pacifica: Sluys, 1986: 259-261, fig. 1 (a map showing the geographic distribution of 5 taxonomic groups within *Procerodes*).

Procerodes pacifica: Sluys, 1989: 311-315, figs. 274-277 (DB, FCA), 452, pl. 12, figs. B-E (PCA, HI). Deadman's Bay, San Juan Island, Washington, U. S. A.; South Island Bay, Kaikoura, New Zealand.

[*Procerodes pacificus*]: Sluys, 1994: Marine Planarians of the World (CD-ROM).

Note: See second half of the "Note" on *Procerodes plebeius* (Schmidt, 1861).

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