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MISCELLANEOUS PAPERS ON “TURBELLARIANS”

By

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ARTICLE II¹⁾

ADDITIONS AND CORRECTIONS OF THE PREVIOUS LAND PLANARIAN INDICES OF THE WORLD (PLATYHELMINTHES, SERIATA, TRICLADIDA, CONTINENTICOLA, GEOPLANOIDEA)

ADDITIONS AND CORRECTIONS OF THE PREVIOUS LAND PLANARIAN INDICES OF THE WORLD -18

By MASAHIRO KAWAKATSU, EUDÓXIA MARIA FROEHLICH and
HUGH D. JONES

INTRODUCTION

The present publication is a continuation of our Land Planarian Indices Series. An ‘Additions and Corrections of the Previous Land Planarian Indices of the World – 18’ is given.

Abbreviations for publications of the Land Planarian Indices Series: BFC = Bulletin of Fuji Women’s College, Ser. II; BFU = Bulletin of Fuji Women’s University, Ser. II (after 2002); OC = Occasional Publications, Biological Laboratory of Fuji Women’s College, Sapporo (Hokkaidō), Japan; KWLP = Kawakatsu’s Web Library on Planarians.

1). This paper is affectionately dedicated to the late Dr. Robert Wetsel Mitchell (Professor of Texas Tech University, 1959-1988), who passed away on March 18, 2010 in San Antonio, Texas, U.S.A. He was 76 years old (born April 25, 1933 in Wellington, Texas). Dr. Mitchell was recognized as a famous Texas cave biologist, invertebrate zoologist and nature photographer. He was also an eminent specialist on the ecology and taxonomy of cave planarians. Over 35 articles in this research field were published with Kawakatsu based upon the samples from North, Central and South America, Hawaii and several countries in Southeast Asia. We will long remember the scientific life of Dr. Robert W. Mitchell. For his In Memoriam publications, see the following:

http://www.utexas.edu/tmm/sponsored_sites/biospeleology/

Abbreviations for figures and photographs cited: AE, arrangement of eyes; CP, parts of the body showing the color pattern(s); DB, dorsal view of the body; DH, dorsal view of the head; DRB, diagrammatic representation of the body (schematic figure); 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 organ; FP, schematic figure of the pharynx; FTS, schematic figure of transverse section(s); HI, histological figure(s); PCA, photographs of the copulatory apparatus; VH, ventral view of the head.

Note. KAWAKATSU & SASAKI's WEBPAGES ON PLANARIANS, SAPPORO AND TÔKYÔ (ISSN 1348 - 3412) is a continuation from the Occ. Publ., Biol. Lab. Fuji Women's College, Sapporo (Hokkaidô), Japan: Nos. 1-34, for 1970-2000 (ISSN 0917-4362).

The pdf versions of the <Land Planarian Indices Series > (published after 2001 to 2004) are available at Kawakatsu's website: <http://victoriver.com>. Left button: planarian.net mirror. For the recent publications of this series (2005, 2006, 2007, 2008 and 2009), see the same website. Left buttons: Miscellaneous 05; Miscellaneous 06; Miscellaneous 07; Miscellaneous 08, Miscellaneous 09.

ADDITIONS AND CORRECTIONS OF THE PREVIOUS LAND PLANARIAN INDICES OF THE WORLD: PAGE NUMBERS FROM 1987 TO 2008

A. BIPALIIDAE INDEX (1987: Bull. Fuji Women's College, No. 25, Ser. II, pp. 79-119; 1988: Occ. Publ., Biol. Lab. Fuji Women's College, No. 19, pp. 1-16; 1992: Bull. Fuji Women's College, No. 30, Ser. II, pp. 62-75; 1993: *Ibid.*, No. 31, Ser. II, pp. 80-81; 1994: *Ibid.*, No. 32, Ser. II, pp. 73-76; 1995: *Ibid.*, No. 33, Ser. II, pp. 78-81; 1996: *Ibid.*, No. 34, Ser. II, pp. 87-93; 1997: *Ibid.*, No. 35, Ser. II, p. 56; 1998: *Ibid.*, No. 36, Ser. II, pp. 75-76; 1999: *Ibid.*, No. 37, Ser. II, pp. 94, 97, 99-101; 2000: *Ibid.*, No. 38, Ser. II, pp. 83-85; 2001: *Ibid.*, No. 39, Ser. II, pp. 112-113; 2002: Bull. Fuji Women's Univ., No. 40, Ser. II, pp. 165-166; 2003: *Ibid.*, No. 41, Ser. II, pp. 108-109; 2004: *Ibid.*, No. 42, Ser. II, pp. 88-89; 2005: *Ibid.*, No. 43, Ser. II, pp. 86-88; 2006: KWLP 2006, pp. 10-14; 2007: KWLP 2007, pp. 13-14; KWLP 2008, pp. 11-12; KWLP 2009, p. 10).

UNDESCRIBED BIPALIID SPECIES (1987: BFC25, pp. 107-109; 1992: BFC30, pp. 73-75; 1993: BFC31, p. 81; 1994: BFC32, pp. 75-76; 1995: BFC33, pp. 80-81; 1996: BFC34, pp. 88-89; 1997: BFC35, p. 56; 1999: BFC37, p. 97; 2000: BFC38, pp. 84-85; 2001: BFC39, p. 113; 2002: BFU40, p. 166; 2003: BFU41, p. 109; 2004: BFU42, p. 89; 2005: BFU43, p. 88; 2006: KWLP 2006, pp. 14-16; 2007: KWLP 2007, p. 14; KWLP 2008, p. 12; KWLP 2009, p. 10).

B. RHYNCHODEMIDAE INDEX, PART I: RHYNCHODEMINAE (1988: Bull. Fuji Women's College, No. 26, Ser. II, pp. 39-91; 1992: *Ibid.*, No. 30, Ser. II, pp. 75-78; 1993: *Ibid.*, No. 31, Ser. II, p. 81; 1994: *Ibid.*, No. 32, Ser. H, p. 76; 1995: *Ibid.*, No. 33, Ser. II, p.

81; 1996: *Ibid.*, No. 34, Ser. II, p. 89; 1997: *Ibid.*, No. 35, Ser. II, pp. 56-57; 1998: *Ibid.*, No. 36, Ser. II, p. 76; 1999: *Ibid.*, No. 37, Ser. II, pp. 101-103; 2000: *Ibid.*, No. 38, Ser. II, pp. 85-86; 2001: *Ibid.*, No. 39, Ser. II, pp. 113-114; 2002: Bull. Fuji Women's Univ., No. 40, Ser. II, p. 166; 2003: *Ibid.*, No. 41, Ser. II, pp. 97-106, 109-110; 2004: *Ibid.*, No. 42, Ser. II, pp. 89-90; 2005: *Ibid.*, No. 43, Ser. II, pp. 88-89; 2006: KWLP 2006, pp. 16-17; 2007: KWLP 2007, pp. 14-15; KWLP 2008, pp. 12-13; KWLP 2009, pp. 11-12).

UNDESCRIBED RHYNCHODEMIDAE (Rhynchodeminae) SPECIES (1998: BFC26, pp. 82-84; 1992: BFC30, p. 78; 1994: BFC32, p. 76; 1997: BFC35, p. 57; 2000: BFC38, p. 86; 2002: BFU40, pp. 166-167; 2004: BFU42, p. 90; 2005: BFU43, p. 89; 2006: KWLP 2006, pp. 17-18; KWLP 2008, p. 13; KWLP 2009, p. 12).

C. RHYNCHODEMIDAE INDEX, PART II: MICROPLANINAE (1989: Bull. Fuji Women's College, No. 27, Ser. II, pp. 53-111; 1992: *Ibid.*, No. 30, Ser. II, pp. 78-80; 1993: *Ibid.*, No. 31, Ser. II, pp. 81-82; 1994: *Ibid.*, No. 32, Ser. II, pp. 76-77; 1995: *Ibid.*, No. 33, Ser. II, p. 81; 1996: *Ibid.*, No. 34, Ser. II, p. 89; 1997: *Ibid.*, No. 35, Ser. II, p. 57; 1998: *Ibid.*, No. 36, Ser. II, pp. 76-77; 2000 *Ibid.*, No. 38, Ser. II, pp. 86-89; 2001: *Ibid.*, No. 39, Ser. II, p. 111; 2002: Bull. Fuji Women's Univ., No. 40, Ser. II, p. 167; 2003: *Ibid.*, No. 41, Ser. II, pp. 97-106, 110; 2004: *Ibid.*, No. 42, Ser. II, p. 90; 2005: *Ibid.*, No. 43, Ser. II, pp. 89-92; 2006: KWLP 2006, p. 18; 2007: KWLP 2007, pp. 15-16; KWLP 2008, pp. 13-14 ; KWLP 2009, pp. 12-14).

UNDESCRIBED RHYNCHODEMIDAE (Microplaninae) SPECIES (1988: BFC26, pp. 82-84; 1997: BFC35, p. 57; 2000: BFC38, p. 89; 2001: BFC39, p. 114; 2007: KWLP 2007, p. 16; KWLP 2008, pp. 14-15).

D. GEOPLANIDAE INDEX, PART I: GEOPLANINAE (1990: Bull. Fuji Women's College, No. 28, Ser. II, pp. 79-166; 1992: *Ibid.*, No. 30, Ser. II, pp. 80-89; 1993: *Ibid.*, No. 31, Ser. II, p. 82; 1994: *Ibid.*, No. 32, Ser. II, p. 77; 1995: *Ibid.*, No. 33, Ser. II, pp. 81-82; 1998: *Ibid.*, No. 36, Ser. II, pp. 77-78; 2000: *Ibid.*, No. 38, Ser. II, pp. 89-91; 2001: *Ibid.*, No. 39, Ser. II, pp. 111-120; 2002: Bull. Fuji Women's Univ., No. 40, Ser. II, pp. 167-168; 2003: *Ibid.*, No. 41, Ser. II, pp. 110-111; 2004: *Ibid.*, No. 42, Ser. II, pp. 90-93; 2005: *Ibid.*, No. 43, Ser. II, p. 93; 2006: KWLP 2006, pp. 18-20; 2007: KWLP 2007, pp. 16-21; KWLP 2008, pp. 15-16; KWLP 2009, pp. 15-26).

UNDESCRIBED GEOPLANIDAE (Geoplaninae) SPECIES (1990: BFC28, pp. 162-165; 1994: BFC32, p. 77; 2000: BFC38, p. 91; 2002: BFU40, p. 168; 2006: KWLP 2006, p. 20; 2007: KWLP 2007, pp. 21-22; KWLP 2008, pp. 16-17; KWLP 2009, pp. 26-27).

E. GEOPLANIDAE INDEX, PART II: CAENOPLANINAE, ANZOPLANINAE AND PELMATOPLANINAE (1991: Bull. Fuji Women's College, No. 29, Ser. H, pp. 25-102; 1992: *Ibid.*, No. 30, Ser. II, p. 89; 1993: *Ibid.*, No. 31, Ser. II, pp. 82-83; 1994: *Ibid.*, No. 32, Ser. II, pp. 77-82; 1995: *Ibid.*, No. 33, Ser. II, pp. 81-82; 1996: *Ibid.*, No. 34, Ser. II, p. 90; 1997: *Ibid.*, No. 35, Ser. II, pp. 58-59; 1999: *Ibid.*, No. 37, Ser. II, pp. 94-97; 2000: *Ibid.*,

No. 38, Ser. II, pp. 91-94; 2001: *Ibid.*, No. 39, Ser. II, pp. 117-118; 2002: Bull. Fuji Women's Univ., No. 40, Ser. II, pp. 168-170; 2003: *Ibid.*, No. 41, Ser. II, p. 112; 2004: *Ibid.*, No. 42, Ser. II, p. 93; 2005: *Ibid.*, No. 43, Ser. II, pp. 93-95; 2006: KWLP 2006, pp. 20-23; 2007: KWLP 2007, pp. 22-25; KWLP 2008, pp. 17-18; KWLP 2009, pp. 27-28).

UNDESCRIBED GEOPLANIDAE (Caenoplaninae) SPECIES (1991: BFC29, pp. 95-96; 1994: BFC32, p. 82; 1997: BFC35, p. 59; 1998: BFC36, p. 78; 2000: BFC38, pp. 94-95; 2002: BFU40, p. 170; 2004: BFU42, pp. 93-94; 2005: BFU43, pp. 95-96; 2006: KWLP 2006, pp. 23-249; KWLP 2008, p. 18).

A NEW CLASSIFICATION SYSTEM OF THE LAND PLANARIANS

Sluys, Kawakatsu, Riutort & Baguñà (2009) proposed a revised classification for the higher taxa within the Tricladida. It is a consequence of the new classification that the taxonomic rank of the terrestrial (or land) planarians is now at the level of family (i.e., Geoplanidae Stimpson, 1857). Cf. The phylogenetic supertree in the above-cited paper (fig. 1 on p. 1767).

This new classification system of land planarians is shown in Table 1 of the present web article.

An ‘Additions and Corrections of the Previous Land Planarian Indices of the World-18’ (i.e., the present web article: ARTICLE II) will be arranged in order of the taxa listed in Table 1.

**Table 1. New classification system of the land planarians
(4 subfamilies, 5 tribes, 55 genera, and 4 subgenera)**

Order TRICLADIDA Lang, 1884¹

Suborder CONTINENTICOLA Carranza, Littlewood, Clough, Ruiz-Trillo,
Baguñà & Riutort, 1998

Superfamily GEOPLANOIDEA Stimpson, 1857

Family GEOPLANIDAE Stimpson, 1857

Subfamily BIPALIINAE von Graff, 1896

Genus *Bipalium* Stimpson, 1857

Genus *Novibipalium* Kawakatsu, Ogren & Froehlich, 1998

Genus *Humbertium* Ogren & Sluys, 2001

Genus *Diversibipalium* Kawakatsu, Ogren, Froehlich & Sasaki, 2002*

Subfamily MICROPLANINAE Pantin, 1953

- Genus *Othelosoma* Gray, 1869
- Genus *Microplana* Vejdovský, 1890
- Genus *Amblyplana* von Graff, 1896
- Genus *Pseudoartiocotylus* Ikeda, 1911
- Genus *Diporodemus* Hyman, 1938
- Genus *Incapora* Du Bois-Reymond Marcus, 1953
- Genus *Geobenazzia* Minelli, 1974
- Genus *Statmicroplana* Kawakatsu, Froehlich, Jones, Ogren & Sasaki, 2003*

Subfamily RHYNCHODEMINAE von Graff, 1896

- Tribe Rhynchodemini von Graff, 1896
 - Genus *Rhynchodemus* Leidy, 1851
 - Genus *Dolichoplana* Moseley, 1877
 - Genus *Cotyloplana* Spencer, 1892
 - Genus *Platydemus* von Graff, 1896
 - Genus *Digonopyla* Fischer, 1926
 - Genus *Anisorhynchodemus* Kawakatsu, Froehlich, Jones, Ogren & Sasaki, 2003*

Tribe Caenoplanini Ogren & Kawakatsu, 1991

- Genus *Caenopiana* Moseley, 1877
- Genus *Artioposthia* von Graff, 1896
- Genus *Coleocephalus* Fyfe, 1953
- Genus *Kontikia* C. G. Froehlich, 1955
 - Subgenus *Kontikia* C. G. Froehlich, 1955
 - Subgenus *Laubenfelsia* Ogren, Kawakatsu & E. M. Froehlich, 1993
- Genus *Timyma* E. M. Froehlich, 1978
- Genus *Pimea* Winsor, 1990
- Genus *Australoplana* Winsor, 1991
- Genus *Fletchamia* Winsor, 1991
- Genus *Lenkunya* Winsor, 1991
- Genus *Parakontikia* Winsor, 1991
- Genus *Reomkago* Winsor, 1991
- Genus *Tasmanopiana* Winsor, 1991
- Genus *Endeavouria* Ogren & Kawakatsu, 1991
- Genus *Newzealandia* Ogren & Kawakatsu, 1991
- Genus *Arthurdendyus* Jones & Gerard, 1999
- Genus *Australopacifica* Ogren & Kawakatsu, 1991*

Tribe Pelmatoplanini Ogren & Kawakatsu, 1991

- Genus *Pelmatopiana* von Graff, 1896
- Genus *Beauchampius* Ogren & Kawakatsu, 1991

Tribe Anzoplanini Winsor, 2006

- Genus *Anzopiana* Winsor, 2006
- Genus *Fyfea* Winsor, 2006

Tribe Eudoxiatopoplana Winsor, 2009

- Genus *Eudoxiatopoplana* Winsor, 2009

Subfamily GEOPLANINAE Stimpson, 1857
Genus *Polycladus* Blanchard, 1845
Genus *Geoplana* Stimpson, 1857
Subgenus *Geoplana* Stimpson, 1851
Subgenus *Barreirana* Ogren & Kawakatsu, 1990
Genus *Geobia* Diesing, 1861
Genus *Choeradoplana* von Graff, 1896
Genus *Xerapoa* C. G. Froehlich, 1955
Genus *Issoca* C. G. Froehlich, 1955
Genus *Gusana* E. M. Froehlich, 1978
Genus *Liana* E. M. Froehlich, 1978
Genus *Amaga* Ogren & Kawakatsu, 1990
Genus *Enterosyringa* Ogren & Kawakatsu, 1990
Genus *Gigantea* Ogren & Kawakatsu, 1990
Genus *Notogynaphallia* Ogren & Kawakatsu, 1990
Genus *Pasipha* Ogren & Kawakatsu, 1990
Genus *Cephaloflexa* Carbayo & Leal-Zanchet, 2003
Genus *Supramontana* Carbayo & Leal-Zanchet, 2003
Genus *Pseudogeoplana* Ogren & Kawakatsu, 1990*

¹⁾ The higher taxa than the Order Tricladida Lang, 1884 are as follows:

Phylum PLATHELMINTHES Schneider, 1873 / PLATYHELMINTHES Claus, 1887
Clade Rhabditophora Ehlers, 1985
Subclade Eulecithophora De Beauchamp, 1961 sense in Sopott-Ehlers, 1997
Superorder Seriata Bresslau, 1933 sense in Sopott-Ehlers, 1997

For taxonomic papers cited above, see Kawakatsu, Murayama, Kawakatsu, M-y. & Kawakatsu, T. (2009).

* Collective groups.

In each group of subfamilies, tribes, genera (and subgenera) are arranged in chronological order as a rule. Collective groups are placed at the end of each subfamily and tribe. Modified from a part of the list by Sluys, Kawakatsu, Riutort & Baguñà (2009: 1767-1771). Two subgenera of the genus *Kontikia* are added.

ADDITIONS AND CORRECTIONS OF THE PREVIOUS LAND PLANARIAN INDICES OF THE WORLD - 18

A. BIPALIINAE INDEX

BFC25. Pp. 81-82. *Bipalium adventitium* Hyman, 1943. Add the following items.
Bipalium adventitium: Örstan & Paustan, 2009: 14, figs 1-3 (DB, color photos).
U.S.A.

Bipalium adventitium: Prasniski & Leal-Zanchet, 2009: 606-607, 610-611.
Bipalium adventitium: Zaborskii, 2002: 401-408, fig. 2 (DB, color photo).

- BFC25. Pp. 91-93. ***Bipalium kewense* Moseley, 1878.** Add the following items.
- Bipalium kewense*: Carbayo, Álvarez-Presas & Riutort, 2010: 45, fig. E (DB, color photo). The Atlantic Region / Brazil.
- Bipalium kewense*: Hachijō Visitor Center (Mr. Takasu), 2010: fig. (DB, color photo). Hachijō-jima Is., The Izu Islands. Tôkyô / Japan.
- Note.** This record is on the advice of Kawakatsu who examined a color photograph of a living specimen taken by Mr Takasu.
- Bipalium kewense*: Negrete, Brusa & Carbayo, 2009: 88. Argentina.
- Bipalium kewense*: Negrete, Brusa & Carbayo, 2010: 43.
- Bipalium kewense*: Stocchino, Sluys, Manconi, Marcia, Gadeddu, Corso & Pala, 2009: 106. Sardinia / Italy.

- BFC25. P. 97. ***Bipalium nobile* Kawakatsu & Makino, 1982.** Add the following item.
- Bipalium nobile*: Shirasawa, Yoshihama, Fujita, Sasaki, Ôta, Seo & Kudô, 2009: 83. Tôkyô / Japan.
- BFU42. P. 87. ***Bipalium muninense* Kawakatsu, Sluys & Ogren, 2005.** Add the following item.
- ‘malacophagous flatworms’: Chiba, Okochi, Ohbayashi, Miura, Mori, Kimura & Wada, 2009: 1-8. Haha-jima Is., the Ogasawara Islands / Japan.
- BFU43. P. 87. ***Bipalium vagum* Jones & Sterrer, 2005.** Add the following item.
- Bipalium cf. vagum*: Prasnisky & Leal-Zanchet, 2009: 611.

UNDESCRIBED BIPALIINAE INDEX

None reported during the past year.

B. MICROPLANINAE INDEX

- BFC27. P. 67. ***Microplana mahneri* Minelli, 1977.** Add the following item.
- Microplana mahneri*: Álvarez & Almeida, 2007: 2.
- BFC27. Pp. 72-77. ***Microplana terrestris* (Müller, 1774).** Add the following items.
- Microplana terrestris*: Álvarez & Almeida, 2007: 2.
- Microplana terrestris*: McDonald & Jones, 2009: 96. Yorkshire / U. K.
- BFC30. Pp. 79-80. ***Microplana termitophaga* Jones, Darlington & Newson, 1990.** Add the following item.
- Microplana termitophaga*: Prasniski & Leal-Zanchet, 2009: 610.

UNDESCRIBED MICROPLANINAE SPECIES

None reported during the past year.

C. RHYNCHODEMINAE INDEX PART I: RHYNCHODEMINI

- BFC26. Pp. 54-55. *Dolichoplana carvalhoi* Corrêa, 1947. Add the following items.
Dolichoplana carvalhoi: Álvarez & Almeida, 2007: 1-7, karyotypes (2x=14, 3x=21). São Paulo State / Brazil.
Dolichoplana carvalhoi: Carbayo, Froehlich, Leal-Zanchet & Amato, 2009: 53.
Dolichoplana carvalhoi: Prasniski & Leal-Zanchet, 2009: 607.

- BFC26. Pp. 64-65. *Platydemus manokwari* de Beauchamp, 1962. Add the following items.
Platydemus manokwari: Álvarez & Almeida, 2007: 2.
'malacophagous flatworms': Chiba, Okochi, Ohbayashi, Miura, Mori, Kimura & Wada, 2009: 1-8. Haha-jima Is., the Ogasawara Islands / Japan.
Platydemus manokwari: Holland, 2009: 42-44, fig. (DB, color photo). Dohnpei Is./ States of Micronesia (FSM).
Platydemus manokwari: Plasniski & Leal-Zanchet, 2009: 606.
Platydemus manokwari: Sugiura, 2008: 207-210. The Ogasawara Islands / Japan.
Platydemus manokwari: Sugiura, 2009a: 9 pages (without pagination), fig la-i (DB, color photos). The Ogasawara Islands / Japan.
Platydemus manokwari: Sugiura, 2009b: 3013-3018, fig. 1a (DV, color photo) and b (a map showing the worldwide distribution). The Ogasawara Islands / Japan.
Platydemus manokwari: Sugiura & Yamaura, 2009: 737-741, fig. la-c (DB, color photos). The Ogasawara Islands / Japan.
Platydemus manokwari: Yamamoto, 2008: on occurrence record only. Amami-Ôshima Is., The Southwest Islands / Japan.

- BFC26. Pp. 78-81. *Rhynchodemus sylvaticus* (Leidy, 1851). Add the following item.

Rhynchodemus sylvaticus: Prasniski & Leal-Zanchet, 2009: 607.

UNDESCRIBED RHYNCHODEMINAE (Rhynchodemini) SPECIES

KWLP 2010 (the present article). See also BFC26. UNDESCRIBED RHYNCHODEMINAE SPECIES. See also BFU41. Pp. 97-106. KWLP 2009. P. 12. UNDESCRIBED RHYNCHODEMIDAE (Rhynchodeminae) SPECIES.

- Rhynchodemus* spp.: Prasniski & Leal-Zanchet, 2009: 607, 611.
Rhynchodemus spp. 1 and 2 of Four Provinces. Negrete, Brusa & Carbayo, 2009: 88. Argentina.
Rhynchodemidae sp.: Stocchino, Sluys, Manconi, Marcia, Gadeddu, Corso & Pala, 2009. Sardinia / Italy.

D. RHYNCHODEMINAE INDEX PART II: CAENOPLANINI

- BFC29. Pp. 36-37. (Under *Artioposthia*.) BFC37. P. 95. *Arthurdendyus australis* (Dendy, 1894). Add the following item.
Arthurdendyus australis: Winsor, 2009: 23.
- BFC29. P. 58. (Under *Australopacifica*.) BFC37. P. 95. *Arthurdendyus testaceus* (Hutton, 1880). Add the following item.
Arthurdendyus testaceus: Winsor, 2009: 23, 25.
- BFC29. P. 41. (Under *Artioposthia*.) BFC37. Pp. 94-96. *Arthurdendyus triangulatus* (Dendy, 1895). Add the following items.
Arthurdendyus triangulatus: Boag, Neilson & Scrimgeour, 2006: 267-270. U.K.
Arthurdendyus triangulatus: Boag, MacKenzie, McNicol & Neilson, 2010: 45-50. British Isles / U.K.
Arthurdendyus triangulatus: Prasniski & Leal-Zanchet, 2009: 606-607, 610.
Arthurdendyus triangulatus: Winsor, 2009: 23, 25.
- KWLP 2006. P. 22. *Arthurdendyus vegrandius* Winsor & Stevens, 2005. Add the following item.
Arthurdendyus vegrandis: Winsor, 2009: 25.
- BFC29. Pp. 54-55. (Under *Australopacifica*.) BFC31. P. 73. *Australoplana alba* (Dendy, 1891). See also BFC31, P. 73. *Australoplana sanguinea* (Moseley, 1877).
Australoplana sanguinea alba: Prasniski & Leal-Zanchet, 2009: 606.
- BFC29. Pp. 60-61. *Australopacifica willeyi* (Busson, 1903). Add the following item.
Australopacifica willeyi: Winsor, 2009: 25.
- BFC29. Pp. 62-63. *Caenoplana coerulea coerulea* Moseley, 1877. Add the following item.
Caenoplana coerulea (temporally assigned): Negrete, Brusa & Carbayo, 2009: 88. Argentina.
- BFC29. Pp. 63-64. *Caenoplana coerulea vaga* (Hyman, 1943). Add the following item.
Caenoplana coerulea vaga: Prasniski & Leal-Zanchet, 2009: 610.
- BFC29. P. 79. *Kontikia ashleyi* (Fyfe, 1953). Add the following item.
Kontikia ashleyi: Winsor, 2009: 25.
- BFC29. Pp. 81-82. *Kontikia marrineri* (Dendy, 1911). Add the following item.
Kontikia marrineri: Winsor, 2009: 25.
- BFC31. Pp. 76-77. *Parakontikia ventrolineata* (Dendy, 1892). BFC 29. P. 84.
Kontikia ventrolineata (Dendy, 1892). Add the following item.
Parakontikia ventrolineata: Prasniski & Leal-Zanchet, 2009: 610.

UNDESCRIBED RHYNCHODEMINAE (Caenoplanini) SPECIES

None reported during the past year.

E. RHYNCHODEMINAE INDEX PART III: ANZOPLANINI, EUDOXIATOPOPLANINI and PELMATOPLANINI

KWLP 2007. P. 25. *Anzoplana trilineata* Winsor, 2006. Add the following item.
Anzoplana trilineata: Winsor, 2009: 25.

KSWP 2010. Insert a new tribe, a new genus and a new species (Winsor, 2009).

Tribe Eudoxiatopoplani Winsor, 2009

Eudoxiatopoplani n. tribe Winsor, 2009: 25.
Type genus: *Eudoxiatopoplana* n. g. Winsor, 2009.
Literature: Winsor, 2009: 25-26

***Eudoxiatopoplana bilaticlavia* Winsor, 2009**

Eudoxiatopoplana bilaticlavia n. sp. Winsor, 2009: 26-31, figs 1-5 (DB, AE, FTS, FGO). Stewart Island (47°00' S, 167°50'E) / New Zealand.

Diagnosis of a new tribe and Systematic Discussion. See Winsor (2009: 24-26).

Note. Dr. Winsor described a new subfamily (Eudoxiatopoplaniinae), new genus (*Eudoxiatopoplana*) and a new species (*Eudoxiatopoplana bilaticlavia*) from New Zealand. However, his new subfamily should be placed as a new tribe according to the new classification system proposed by Sluys, Kawakatsu, Riutort & Baguñà (2009). Thus, the ending of his new family (-inae) should be changed as that of a new tribe (-ini).

KWLP 2007. P. 25. *Fyfea carnleyi* (Fyfe, 1953). Cf. BFC29. P. 37. *Artioposthia carnleyi* Fyfe, 1953. Add the following item.
Fyfea carnleyi: Winsor, 2009: 25.

Note. For the specific name of this New Zealand species, see KWLP 2007, p. 25. *Fyfea carnleyi* (Fyfe, 1953).

UNDESCRIBED RHYNCHODEMINAE (Anzoplanini, Eudoxiatopoplani and Pelmatoplanini) Species

None reported during the past year.

F. GEOPLANINAE INDEX

- BFC42. *Cephaloflexa bergi* (von Graff, 1899). Add the following item.
Cephaloflexa bergi: Carbayo, Álvarez-Presas & Riutort, 2010: 48, fig. 5 (DB, color photo). The Atlantic Region / Brazil.
- BFC28. P. 97. *Enterosyringa pseudorhynchodemus* (Riester, 1938). Add the following item.
Enterosyringa pseudorhynchodemus: Prasnisky & Leal-Zanchet, 2009: 610.
- BFC28. P. 114. *Geoplana (Geoplana) applanata* von Graff, 1899. Add the following item.
Geoplana applanata: Carbayo, Álvarez-Presas & Riutort, 2010: 44-45, fig. A (DB, color photo). The Atlantic Region / Brazil.
- BFC28. P. 116. *Geoplana (Geoplana) burmeisteri* Schultze & Müller, 1857. Add the following item.
Geoplana burmeisteri: Álvarez & Almeida, 2007: 2.
- BFC28. Pp. 112-113. *Geoplana (Barreirana) elegans* (Darwin, 1844). Add the following item.
Planaria elegans: Carbayo, Froehrich, Leal-Zanchet & Amato, 2009: 51. Brazil.
- BFC28. P. 121. *Geoplana (Geoplana) fuhrmanni* Hyman, 1962. Add the following item.
Geoplana fuhrmanni Hyman, 1962 as possibilities: Jones, Littlewood & Fehlauer-Ale, 2009: 105. Guernsey, the Channel Islands /U. K.
- BFC28. P. 128. *Geoplana (Geoplana) notocelis* Bresslau, 1830. Add the following item.
Geoplana notocelis: Carbayo, Froehrich, Leal-Zanchet & Amato, 2009: 52.
- BFC28. P. 130. *Geoplana (Geoplana) quagga* Marcus, 1951. Add the following items.
Geoplana quagga: Carbayo, Álvarez-Presas & Riutort, 2010: 48, fig. 6 (DB, color photo). The Atlantic Region / Brazil.
Geoplana quagga: Negrete, Brusa & Carbayo, 2009: 88.
- BFC28. P. 134. *Geoplana (Geoplana) vaginuloides* (Darwin, 1844). Add the following items.
Geoplana vaginuloides: Carbayo, Álvarez-Presas & Riutort, 2010: 45, fig. D (DB, color photo). The Atlantic Region / Brazil.
Planaria vaginuloides: Carbayo, Froehrich, Leal-Zanchet & Amato, 2009: 51-52. Brazil.
- BFC28. P. 135. *Gigantea bistriata* (Hyman, 1962). Add the following item.
Gigantea bistriata: Negrete, Brusa & Carbayo, 2010: 51.

BFC28. P. 135. ***Gigantea cameliae* (Fuhrmann, 1914).** Add the following items.
Geoplana cameliae: Jones, Littlewood & Fehlauer-Ale, 2009: 105. Guernsey, the Channel Islands / U. K.
Gigantea cameliae: Negrete, Brusa & Carbayo, 2010: 51.

BFU43. P. 93. ***Gigantea gouvernoni* Jones & Sterrer, 2005.** Add the following item.
Gigantea gouvernoni: Negrete, Brusa & Carbayo, 2010: 51.

BFC28. P. 136. ***Gigantea idaia* (du Bois-Reymond Marcus, 1951).** Add the following item.
Gigantea idaia: Negrete, Brusa & Carbayo, 2010: 43.

KWLP 2008. P. 16. ***Gigantea maupoi* Carbayo, 2008.*** Add the following item.
Gigantea maupoi: Negrete, Brusa & Carbayo, 2010: 51.

***Note.** KWLP 2008. P. 16. The new scientific name, ‘*Gigantea maupoi* Carbayo, 2007’, should be placed in the leftward of the line; ‘2007’ should read 2008.

BFC28. Pp. 136-137. ***Gigantea sandersoni* (Prudhoe, 1949).** Add the following item.
Gigantea sandersoni: Negrete, Brusa & Carbayo, 2010: 51.

BFC28. P. 137. Insert a new species and list after *Gigantea vongunteni* (Fuhrmann, 1914). ***Gigantea urubambensis* Negrete, Brusa & Carbayo, 2008.**
Gigantea urubambensis n. sp. Negrete, Brusa & Carbayo, 2010: 43-51, figs 1-6 (DB in color photo, DVB, AE, HI, VH1 FCA, PCA). Camisea, Department of Cusco, the Lower Urubamba Region / Peru.

BFC28. P. 138. ***Issoca rezendei* (Schirch, 1929).** Add the following item.
Issoca regendei: Carbayo, Álvarez-Presas & Riutort, 2010: 46, fig. 3 (DB, color photo), 47. The Atlantic Region / Brazil.

BFC28. Pp. 139-140. ***Notogynaphallia abundans* (von Graff, 1899).** Add the following items.
Notogynaphallia abundans: Carbayo, 2009: 81.
Notogynaphallia abundans: Prasniski & Leal-Zanchet, 2009: 606-611, figs 1 (graph), 2-30 (sketches of planarians showing predatory behavior). São Leopoldo, RS / Brazil.

BFC28. P. 141. ***Notogynaphallia caissara* (Froehlich, 1955).** Add the following items.
Notogynaphallia caissara: Carbayo, 2009: 81.
Notogynaphallia caissara: Prasniski & Leal-Zanchet, 2009: 610.

BFC28. P. 92. ***Notogynaphallia ceciliae* Froehlich & Leal-Zanchet, 2003.** Add the following item.

Notogynaphallia ceciliae: Carbayo, 2009: 81.

KWLP 2007. P. 20. ***Notogynaphallia ernesti* Leal-Zanchet & Froehlich, 2006.** Add the following items.

Notogynaphallia ernesti: Carbayo, 2009: 81.

Notogynaphallia ernesti: Carbayo, Álvarez-Presas & Riutort, 2010: 44-45, fig. B (DB, color photo). The Atlantic Region / Brazil.

Notogynaphallia ernesti: Prasniski & Leal-Zanchet, 2009: 610.

BFC28. P. 28. ***Notogynaphallia fita* (C. G. Froehlich, 1959).** Add the following item.

Notogynaphallia fita: Carbayo, 2009: 81.

BFC28. P. 142. ***Notogynaphallia goetschi* (Riester, 1938).** Add the following item.

Notogynaphallia goetschi: Carbayo, Álvarez-Presas & Riutort, 2010: 46, fig. 2 (map), 48, fig. 6 (DB, color photo and map), 49 (fig. 8, map). The Atlantic Region / Brazil.

KWLP 2007. Pp. 20-21. ***Notogynaphallia graffi* Leal-Zanchet & Froehlich, 2006.**

Add the following item.

Notogynaphallia graffi: Carbayo, 2009: 81.

BFC28. P. 143. ***Notogynaphallia muelleri* (Diesing, 1861).** Add the following item.

Notogynaphallia muelleri: Carbayo, 2009: 81.

BFC28. P. 147. ***Pasipha pasipha* (Marcus, 1951).** Add the following item.

Pasipha pasipha: Álvarez & Almeida, 2007: 2.

BFC28. P. 149. ***Pasipha tapetilla* (Marcus, 1951).** Add the following items.

Pasipha tapetilla: Carbayo, Álvarez-Presas & Riutort, 2010: 46, fig. 4 (DB, color photo), 47. The Atlantic Region / Brazil.

Pasipha tapetilla: Prasniski & Leal-Zanchet, 2009: 610.

BFC28. Pp. 151-152. ***Polycladus gayi* Blanchard, 1845.** Add the following item.

Polycladus gayi: Negrete, Brusa & Carbayo, 2009: 88. Argentina.

BFC28. P. 153. ***Pseudogeoplana bonita* (Schirch, 1929).** Add the following item.

Pseudogeoplana bonita: Negrete, Brusa & Carbayo, 2010: 51.

BFC28. P. 153. ***Pseudogeoplana brasiliensis* (Blainville, 1826).** Add the following item.

Planaria brasiliensis (Blainville, 1826): Carbayo, Froehrich, Leal-Zanchet & Amato, 2009: 51. Brazil.

BFC28. P. 155. ***Pseudogeoplana flava* (Moseley, 1877).** Add the following item.

Geoplana flava: Carbayo, Froehrich, Leal-Zanchet & Amato, 2009: 51. Brazil.

BFC28. Pp. 155-156. ***Pseudogeoplana lumbricoides* (Schirch, 1929).** Add the

following item.

Pseudogeoplana lumbricoides: Negrete, Brusa & Carbayo, 2010: 51.

UNDESCRIPTED GEOPLANINAE SPECIES

KWLP 2010 (the present article). UNDESCRIPTED GEOPLANINAE SPECIES.

Amaga sp. 1 of Four Provinces. Negrete, Brusa & Carbayo, 2009: 88. Argentina.

Choeradoplana sp. 1 of Four Provinces. Negrete, Brusa & Carbayo, 2009: 88. Argentina.

Geoplana sp. 1: Prasniski & Leal-Zanchet, 2009: 607. Brazil.

Geoplana sp. 2: Prasniski & Leal-Zanchet, 2009: 607. Brazil.

Geoplana spp. 1-4 of Four Provinces. Negrete, Brusa & Carbayo, 2009: 88. Argentina.

Pasipha sp. 2: Leal-Zanchet, Froehlich, Seitenfus & Alvarenza, 2009: 50. Rio Grande do Sul / Brazil.

Pasipha sp. 3: Leal-Zanchet, Froehlich, Seitenfus & Alvarenza, 2009: 50. Rio Grande do Sul / Brazil.

Pseudogeoplana spp. 1-4 of Four Provinces. Negrete, Brusa & Carbayo, 2009: 88. Argentina.

Xerapoa sp.: Carbayo, Alvarez-Presas & Riutort, 2010: 4-45, fig. C (DB, color photo). The Atlantic Region / Brazil.

Note. For the 3 undescribed species from Brazil (*Geoplana* sp. 1, *Geoplana* sp. 2 and *Pasipha* sp. 2), see KWLP 2009, pp. 26-27. UNDESCRIPTED GEOPLANIDAE (Geoplaninae) SPECIES.

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Additional Papers

The following four abstracts on Brazilian land planarians were given at the occasion of the Eleventh International Symposium on Flatworm Biology (July 26-30, 2009), Hasselt University, Belgium. No species names are given in them.

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(Tricladida: Terricola) community structure and comparison in areas of caducifolius forest in Southern Brazil. 11th ISFB Abstract Book (Hasselt, July 26-30, 2009): 23.

GRAU, J. H. & CARBAYO, F., 2009. Phylogenetic relationships of the Geoplaninae as inferred from morphology. 11th ISFB Abstract Book (Hasselt, July 26-30, 2009): 82.

RIUTORT, M., ÁLVAREZ-PRESAS, M., CARBAYO, F. & ROZAS, J., 2009. Biodiversity and molecular phylogeography of land planarians (Platyhelminthes) from the Atlantic forest (Brazil). 11th ISFB Abstract Book (Hasselt, July 26-30, 2009): 21.

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