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ADDITIONS AND CORRECTIONS OF THE PREVIOUS LAND PLANARIAN INDICES OF THE WORLD (TURBELLARIA, SERIATA, TRICLADIDA, TERRICOLA)

ADDITIONS AND CORRECTIONS OF THE PREVIOUS LAND PLANARIAN INDICES OF THE WORLD – 10

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### INTRODUCTION

The present publication is a continuation of our Land Planarian Indices Series. In the Part I, we will give a taxonomic revision of the family Bipaliidae von Graff, 1896, based upon an establishment of a new collective group.

The Part II is an 'Additions and Corrections of the Previous Land Planarian Indices of the World –10'.

Abbreviations: BFC = Bulletin of Fuji Women's College (Ser. II); OC = Occasional Publications, Biological Laboratory of Fuji Women's College, Sapporo (Hokkaidô), Japan; pdf = web article (pdf) is also available.

### PART I

#### REVISION OF THE LIST OF SPECIES IN THE FAMILY BIPALIIDAE PUBLISHED IN THE PREVIOUS GEOGRAPHIC LOCUS INDEX

##### Taxonomic History and an Abolishment of the Subspecies Classification System in the Bipaliidae

The taxonomic history of the family Bipaliidae von Graff, 1896, is described in a paper by Ogren & Kawakatsu (1987: 79-81). Conclusively, it was considered during the past 80 years or more, the family consists of only a single, large, but non-homogenous, genus *Bipalium* Stimpson, 1857.

This Indices Series employed that taxonomic system until the 1998 issue: Ogren & Kawakatsu (1987: 79-111; 1988: 3-12; 1989: 91; 1991: 96-97); Ogren, Kawakatsu & Froehlich (1992: 62-75, 98-99, pl. I, top; 1993: 34-60; 1994: 73-76; 1995: 79-81; 1996: 87-89; 1997a: 55-56; 1997b: 71-72, 81, 83-96; 1998a: 1-2; 1998b: 75-76). After the 1999 issue, a new classification system with 2 to 3 genera was introduced: Ogren,

Kawakatsu & Froehlich (1999: 93-94; Kawakatsu, Ogren & Froehlich, 2000: 83-85; Kawakatsu, Ogren, Froehlich & Sasaki, 2001: 111-113).

According to our 1997 (b) data, the genus consists of 160 species (including 14 subspecies) (Ogren, Kawakatsu & Froehlich, 1997b: 68, table 1, etc.). Among them, the species with the anatomical and histological descriptions of the copulatory apparatus based upon fully sexually mature specimens (i.e., well-described species) amount to some 39 per cent of the whole (cf. Ogren, Kawakatsu & Froehlich, op. cit., table 1). This means some 60 per cent of the whole of the bipaliid species are only known by their external morphological characters.

*Bipalium* Stimpson, 1857, a representative genus of the Bipaliidae, has been described without a type species. After 135 years later, Stimpson's (op. cit.) *Bipalium fuscatum* was designated as the type species (cf. Ogren, Kawakatsu & Froehlich, 1992: 63).

*B. fuscatum* is a large, black species reported at first from the vicinity of Shimoda City, Izu Peninsula, Chûbu Region, Honshû, Japan. It was believed in the zoology circle of Japan that *B. fuscatum* is a common species distributed widely in Japan as well as in Southeast Asian countries (Okugawa, 1953 and others). However, it becomes clear that the name of "*B. fuscatum* (or *Placocephalus fuscatus*)" employed by von Graff (1899) and Kaburaki (1922) does not represent a single species (cf. Kawakatsu, 1991; Kawakatsu, Ogren & Froehlich, 1998; see also Mack-Firă & Kawakatsu, 1972).

The taxonomic clarification of the '*B. fuscatum* problem' was the first step of the revision of the Bipaliidae. Kaburaki's (1922) description of "*Placocephalus fuscatus*" (op. cit., pp. 34-38, figs. 17-19, pl. I, figs. 8-9) includes descriptions of two different species: 1) a large, black species with a usual, conical penis papilla and a weak muscular male genital antrum that

opens to the common antrum; 2) another species having a similar external appearance, with a weakly developed penis papilla and a very thick, tubular, muscular male antrum that opens to the genital pore (male genital pore).

In conclusion, the former is *Bipalium fuscatum* Stimpson, 1857, and the latter, transferred into a new genus *Novibipalium* Kawakatsu, Ogren et Froehlich, 1998, was named as *Novibipalium falsifuscatum* Kawakatsu, Ogren et Froehlich, 1998. The other 2 Japanese species were also transferred into the same genus: *Novibipalium trifuscostriatum* (Kaburaki, 1922) and *Novibipalium venosum* (Kaburaki, 1922).

"*Placocephalus fuscatus*" from Buitenzorg, Java, in Indonesia (also from India?), reported by von Graff (1899: 220-221, fig. 66, pp. 461-462, taf. VIII, figs. 8-13) was named as *Novibipalium alterifuscatum* Kawakatsu, Ogren et Froehlich, 1998. (Cf. Ogren, Kawakatsu & Froehlich, 1999: 93-94.)

The second step of the revision of the Bipaliidae was the separation of 22 species (including 2 subspecies) based upon the anatomical character in the female copulatory organ proposed by Ogren & Sluys (2001). These *Bipalium* species from Madagascar, India, Sri Lanka, China, Sarawak in Indonesia, and West Malaysia were transferred into a new genus *Humbertium* Ogren et Sluys, 2001.

Among them, the taxonomic position of 2 subspecies may have a confusion. *Humbertium negritorum palnisium* (de Beauchamp, 1930) is known from India. Another nominotypical subspecies, *Bipalium negritorum negritorum* von Graff, 1899, was reported from the Philippines based upon non-sexual specimens (cf. Ogren & Kawakatsu, 1987: 97).

*Humbertium univittatum subboreale* (Sabussowa, 1925) is known from Central China. Another nominotypical subspecies, *Bipalium univittatum univittatum* Grube, 1866, was reported from Southern India (Madras) based upon non-sexual specimens. Although redescrptions of *B. univittatum* including genital anatomy were published by von Graff and de Beauchamp (1930b), the taxonomy of Grube's old, original species is uncertain (cf. Ogren & Kawakatsu, 1987: 105-106).

The best solution of the taxonomic confusion mentioned above is an abolishment of the subspecies classification system in the Bipaliidae. Namely, 14 subspecies (including 7 nominotypical subspecies) listed in the previous Index (Ogren & Kawakatsu, 1987 = BFC25) should be elevate to the rank of species as listed below. (Abbreviations: BFC25 = Bull. Fuji Women's College, ser. II, no. 25; FCA = figure of the copulatory apparatus.)

1. *Bipalium everetti* Moseley, 1875. Genital anat-

omy of the copulatory apparatus was given by de Beauchamp (1925, 1926). Sarawak / E. Malaysia. BFC25 (p. 85).

2. *Bipalium longitudinalis* de Beauchamp, 1933. FCA is not known. N. Borneo / E. Malaysia. BFC25 (p. 85).
3. *Bipalium marginatum* Loman, 1887. FCA was given by von Graff (1899). Java and N. Celebes (Sulawesi) / Indonesia. BFC25 (p. 95).
4. *Bipalium janssei* Müller, 1907. FCA is not known. Java / Indonesia. BFC25 (p. 95).
5. *Bipalium negritorum* von Graff, 1899. FCA is not known. The Philippines. BFC25 (p. 97).
6. *Bipalium palnisium* de Beauchamp, 1930. FCA is known. Palnis / India. BFC25 (p. 97).
7. *Bipalium penzigi* Müller, 1902. FCA is known. Java / Indonesia. BFC25 (p. 98).
8. *Bipalium alternans* de Beauchamp, 1930. FCA is known. Sumatra / Indonesia. BFC25 (p. 98).
9. *Bipalium phebe* Humbert, 1862. FCA is known. Peladenis, Ceylon / Sri Lanka.
10. *Bipalium transversefasciatum* Müller, 1902. FCA is not known. Malay Peninsula / Malaysia. BFC25 (p. 99).
11. *Bipalium ravenalae* (von Graff, 1899). FCA was given by Mell (1902). Madagascar. BFC25 (p. 100).
12. *Bipalium bimaculata* (von Graff, 1899). FCA is not known. Madagascar. BFC25 (p. 100).
13. *Bipalium univittatum* Grube, 1866. FCA was given by von Graff (1899) and de Beauchamp (1930). Madras and Palnis / India.
14. *Bipalium subboreale* Sabussowa, 1925. FCA is known. Ch'inghai Hsing / N. China. BFC25 (p. 106).

#### Correction of TABLE I in Ogren & Sluys' (2001) Paper

A list of *Humbertium* species is given on page 203 of Ogren & Sluys' (2001) paper. Two *Bipalium* species (formerly classified as subspecies) listed in the foregoing list of the present article were already transferred into *Humbertium*. They are as follows:

*Humbertium phebe* (Humbert, 1862). See No. 9 in the list.

*Humbertium ravenalae* (von Graff, 1899). See No. 11 in the list.

The other 2 *Humbertium* subspecies listed in TABLE I of Ogren & Sluys' (2001) paper should be corrected as follows:

*Humbertium palnisium* (de Beauchamp, 1930) for *Humbertium negritorum palnisium* (de Beauchamp, 1930). See No. 6 in the list.

*Humbertium subboreale* (Sabussowa, 1925) for

*Humbertium univittatum subboreale* (Sabusowa, 1925). See No. 14 in the list.

Kawakatsu, Ogren & Froehlich (1998: 84-85, figs. 1 and 2).

### Revision of the Family Bipaliidae

Due to the elevation of 14 subspecies to the rank of species and an addition of a few number of species, the family Bipaliidae now consists of 3 genera and 169 species in total (143 species in *Bipalium* s.l., 22 species in *Humbertium* and 4 species in *Novibipalium*).

In *Bipalium* s.l., the genital anatomy of 48 species (ca. 34%) are known. However, the remained 95 species (ca. 66%) were described by non-sexual specimens. This fact supplies a reason for prevent an appropriate progress of taxonomic revision of the Bipaliidae.

We now propose the subdivision of the genus *Bipalium* s.l. into 2 genera, i.e., the genus *Bipalium* s.s. (a group of the genital anatomy is known) and a collective group (uncertain bipaliid species which will be tentatively classified under this group). Although being of no value for improving the bipaliid taxonomy itself, in practice this procedure can be of help in immediately informing about non-classified species with unknown genital anatomy.

From the foregoing standpoint and consideration, definitions of the family Bipaliidae and 4 genera (including a new Collective Group) are given below.

### Definitions of the Family Bipaliidae and 4 Genera

#### Family **Bipaliidae von Graff, 1896**

Definition: Body elongate and flattened, with a semilunar head; with numerous, small marginal eyes and sensory groove around the head; creeping sole begins at the base of head plate.

Type genus: *Bipalium* Stimpson, 1857.

#### Genus ***Bipalium* Stimpson, 1857**

Definition: Bipaliidae with simple copulatory organs and without accessory ducts, or copulatory bursa; male and female exit ducts are separated by a fold of tissue before they enter the common genital antrum.

Type species: *Bipalium fuscatum* Stimpson, 1857.

Cf. Ogren, Kawakatsu & Froehlich (1992: 63);

#### Genus ***Humbertium* Ogren et Sluys, 2001**

Definition: Bipaliidae with ovoiducts turning dorsally before reaching the genital pore and having an anterodorsal entrance to the female organ.

Type species: *Perocephalus ravenalae* von Graff, 1899. [Copulatory apparatus described by Mell (1902, pl. XXXI, fig. 3)].

Cf. Ogren & Sluys (2001: 201).

#### Genus ***Novibipalium* Kawakatsu, Ogren et Froehlich, 1998**

Definition: Bipaliidae sharing many features with *Bipalium*; male genital organ has the key character in the form of its highly muscular male antrum wall which can evert into an elongate penis sheath (pseudophallus), which provides a secondary or distal ejaculatory duct; reduction or absence of the penis papilla.

Type species: *Bipalium trifuscostratum* Kaburaki, 1922.

Cf. Kawakatsu (1991); Kawakatsu, Ogren & Froehlich, 1998: 87.

#### Genus ***Diversibipalium* Kawakatsu, Ogren, Froehlich et Sasaki, gen. nov. (collective group)**

Definition: Bipaliidae, but not classifiable into present taxonomic genera because of insufficient morphological information; geographical distribution largely in Asia (the Far East and Southeast Asia) and Indo-Pacific islands (the eastern part of the Palaearctic Subregion of the Holarctic Region and the Palearctic Kingdom). A collective group to temporarily assign species inquirendae and nomina dubia.

No type species. Cf. ICZN, 4th Ed., 1999, Art. 42.3.1.

Etymology: The new generic name of *Diversibipalium* is from Latin. *Diversi* (different, various, diversity) + *bipalium*. Gender is the same with *Bipalium* (neuter).

Table 1. A list of bipaliid species with information on copulatory organ and geographical location.

Family BIPALIIDAE von Graff, 1896	
Genus <i>BIPALIUM</i> Stimpson, 1857	
<i>Bipalium adensameri</i> von Graff, 1899	+ Indonesia - Java ; Vietnam
<i>Bipalium admarginatum</i> de Beauchamp, 1933	+ E. Malaysia
<i>Bipalium adventitium</i> Hyman, 1943	+ U. S. A. (CA, MA, NY, PA, TN)
<i>Bipalium alternans</i> de Beauchamp, 1930	+ Indonesia - Sumatra
<i>Bipalium bergendali</i> (von Graff, 1899)	+ Indonesia - Java ; W. Malaysia ; Singapore
<i>Bipalium cantori</i> (Wright, 1860)	+ ? China (NEC)
<i>Bipalium choristosperma</i> de Beauchamp, 1925	+ E. Malaysia
<i>Bipalium crassatrium</i> de Beauchamp, 1939	+ Vietnam
<i>Bipalium distinguendum</i> Müller, 1907	+ Indonesia - Natuna Is.
<i>Bipalium dubium</i> Loman, 1890	+ Indonesia - Sumatra ; Vietnam
<i>Bipalium ephippium</i> Loman, 1890	+ Indonesia - Sumatra
<i>Bipalium everetti</i> Moseley, 1875	+ E. Malaysia
<i>Bipalium fuscatum</i> Stimpson, 1857	+ Japan (CJ)
<i>Bipalium fuscolineatum</i> Kaburaki, 1922	+ Japan (NJ)
<i>Bipalium gestroi</i> von Graff, 1894	+ Indonesia - Sumatra
<i>Bipalium glaucum</i> (Kaburaki, 1922)	+ Japan (CJ)
<i>Bipalium gracile</i> Loman, 1890	+ Indonesia - Java ; Singapore
<i>Bipalium graffi</i> Müller, 1902	+ E. Malaysia ; Singapore
<i>Bipalium haberlandti</i> von Graff, 1899	+ Indonesia - Java ; Singapore
<i>Bipalium hilgendorfi</i> (von Graff, 1899)	+ Japan (NJ, CJ)
<i>Bipalium interruptum</i> von Graff, 1899	+ Indonesia - Java
<i>Bipalium javanum</i> Loman, 1883	+ Indonesia - Java & Sumatra ; E. Malaysia ; Singapore ; Sri Lanka ; Thailand
<i>Bipalium kewense</i> Moseley, 1878* <sup>1</sup>	+ <i>Cosmopolitan</i> : Austria ; Belgium ; Czechoslovakia ; Finland ; Germany ; Ireland ; Norway ; Poland ; Portugal ; U. K. ; Israel ; Cambodia ; India ; Indonesia - Java, - Natuna Is., - Sulawesi, - Sumatra ; E. & W. Malaysia ; Philippines ; Singapore ; Sri Lanka ; Thailand ; Vietnam ; China (NEC) ; Hong Kong, China ; Japan (CJ, SJ, SWI) ; Taiwan ; Fiji ; Hawaii, U. S. A. ; Palau Is. ; Tonga ; Australia (QLD, NSW, VIC, SA, WA) ; New Zealand ; Azores Is. ; Cape Verde ; Madeira ; Saint Helena ; La Réunion ; Madagascar ; Canada (Manitoba & Ontario) ; U. S. A. (AK, AL, CA, DC, FL, GA, IL, KY, LA, MA, MD, ME, MI, NJ, NC, OH, PA, SC, TN, TX, UT, VA, WA) ; Bermuda Is. ; Costa Rica ; Jamaica ; Panama ; Argentina ; Brazil ; Colombia ; Peru ; Uruguay
* <sup>1</sup> <i>Bipalium costaricense</i> Hyman, 1939, is a synonym of <i>B. kewense</i> .	
<i>Bipalium kisoense</i> Kaburaki, 1922	+ Japan (CJ)
<i>Bipalium kraepelini</i> (Ritter - Záhony, 1905)	+ Indonesia - Java
<i>Bipalium marginatum</i> Loman, 1887	+ Indonesia - Java & Sulawesi
<i>Bipalium mjobergi</i> de Beauchamp, 1925	+ E. Malaysia
<i>Bipalium monolineatum</i> Kaburaki, 1922	+ Japan (CJ)
<i>Bipalium moseleyi</i> Loman, 1887	+ E. Malaysia
<i>Bipalium myadenosum</i> de Beauchamp, 1939	+ Vietnam
<i>Bipalium nigrum</i> (Ritter - Záhony, 1905)	+ Indonesia - Java
<i>Bipalium nobile</i> Kawakatsu et Makino, 1982	+ Japan (NJ, CJ, SJ)
<i>Bipalium ochroleucum</i> Kaburaki, 1922	+ Japan (CJ)
<i>Bipalium pennsylvanicum</i> Ogren, 1987	+ U. S. A. (PA) ; Japan (CJ)?
<i>Bipalium penrissenicum</i> Kawakatsu, Ogren et Froehlich, 1998	+ E. Malaysia - Sarawak (Mt. Penrissen)
<i>Bipalium penzigi</i> Müller, 1902	+ Indonesia - Java
<i>Bipalium persephone</i> de Beauchamp, 1939	+ Vietnam
<i>Bipalium poiense</i> de Beauchamp, 1925	+ E. Malaysia
<i>Bipalium rigaudi</i> von Graff, 1894	+ India ; Vietnam

<i>Bipalium robiginosum</i> von Graff, 1899	+ Indonesia - Java ; Singapore
<i>Bipalium semperi</i> (von Graff, 1899)	+ Philippines
<i>Bipalium simrothi</i> Loman, 1895	+ Indonesia - Natuna Is. ; W. Malaysia
<i>Bipalium strubelli</i> von Graff, 1899	+ Indonesia - Java ; Singapore
<i>Bipalium sudzukii</i> Kawakatsu, 1986	+ W. Malaysia
<i>Bipalium univittatum</i> Grube, 1866	+ India
<i>Bipalium virile</i> Müller, 1902	+ Indonesia - Sumatra
<i>Bipalium weismanni</i> Ritter - Záhony, 1905	+ Indonesia - Java
<i>Bipalium wiesneri</i> von Graff, 1899	+ Indonesia - Java ; W. Malaysia

Genus **HUMBERTIUM** Ogren et Sluys, 2001

<i>Humbertium ceres</i> (Moseley, 1875)	+ Sri Lanka
<i>Humbertium core</i> (de Beauchamp, 1930)	+ India
<i>Humbertium depressum</i> (Ritter - Záhony, 1905)	+ Sri Lanka ; India
<i>Humbertium diana</i> (Humbert, 1862)	+ Sri Lanka
<i>Humbertium dodabettæ</i> (de Beauchamp, 1930)	+ India
<i>Humbertium ferrugineoideum</i> (Sabussowa, 1925)	+ Madagascar ?
<i>Humbertium ferrugineum</i> (von Graff, 1899)	+ Madagascar
<i>Humbertium girardi</i> (von Graff, 1899)	+ Madagascar
<i>Humbertium kelleri</i> (von Graff, 1899)	+ Madagascar
<i>Humbertium longicanale</i> (Sabussowa, 1925)	+ China (CC)
<i>Humbertium palnisium</i> (de Beauchamp, 1930) comb. nov.	+ India
<i>Humbertium penangense</i> (Kawakatsu, 1986)	+ W. Malaysia
<i>Humbertium penrissenense</i> (de Beauchamp, 1925)	+ E. Malaysia
<i>Humbertium phebe</i> (Humbert, 1862)	+ Sri Lanka
<i>Humbertium proserpina</i> (Humbert, 1862)	+ India ; Sri Lanka
<i>Humbertium pseudophallicum</i> (de Beauchamp, 1925)	+ E. Malaysia
<i>Humbertium ravenalæ</i> (von Graff, 1899)	+ Madagascar
<i>Humbertium sikorai</i> (von Graff, 1899)	+ Madagascar
<i>Humbertium subboreale</i> (Sabussowa, 1925) comb. nov.	+ China (CC)
<i>Humbertium umbrinum</i> (Geba, 1909)	+ Madagascar
<i>Humbertium voigti</i> (von Graff, 1899)	+ Madagascar
<i>Humbertium woodworthi</i> (von Graff, 1899)	+ Madagascar

Genus **NOVIBIPALIUM** Kawakatsu, Ogren et Froehlich, 1998

<i>Novibipalium alterifuscatum</i> Kawakatsu, Ogren et Froehlich, 1998	+ Indonesia - Java ; India?
<i>Novibipalium falsifuscatum</i> Kawakatsu, Ogren et Froehlich, 1998	+ Japan (CJ)
<i>Novibipalium trifuscostriatum</i> (Kaburaki, 1922)	+ Japan (CJ)
<i>Novibipalium venosum</i> (Kaburaki, 1922)	+ Japan (CJ, SJ)

Genus **DIVERSIBIPALIUM** Kawakatsu, Ogren, Froehlich et Sasaki, gen. nov. (collective group)

<i>Diversibipalium andrewesi</i> (Whitehouse, 1919) comb. nov.	- India
<i>Diversibipalium bimaculatum</i> (von Graff, 1899) comb. nov.	- Madagascar
<i>Diversibipalium bleekeri</i> (von Graff, 1899) comb. nov.	- Indonesia - Java
<i>Diversibipalium boehmigi</i> (Müller, 1902) comb. nov.	- E. Malaysia
<i>Diversibipalium brauni</i> (Mell, 1902) comb. nov.	- Madagascar
<i>Diversibipalium brunneum</i> (Whitehouse, 1919) comb. nov.	- India
<i>Diversibipalium catenatum</i> (von Graff, 1899) comb. nov.	- Philippines
<i>Diversibipalium claparedei</i> (von Graff, 1899) comb. nov.	- Indonesia - Java
<i>Diversibipalium claviforme</i> (Loman, 1890) comb. nov.	- Indonesia - Java
<i>Diversibipalium delicatum</i> (Whitehouse, 1914) comb. nov.	- India

<i>Diversibipalium dendrophilum</i> (Schmarda, 1859) comb. nov.	– Sri Lanka
<i>Diversibipalium dihangense</i> (Whitehouse, 1914) comb. nov.	– India
<i>Diversibipalium ellioti</i> (von Graff, 1899) comb. nov.	– Indonesia - Sulawesi
<i>Diversibipalium engeli</i> (den Hertog, 1968) comb. nov.	– Singapore
<i>Diversibipalium everetti</i> (Moseley, 1875) comb. nov.	– E. Malaysia - Sarawak
<i>Diversibipalium expeditionis</i> (Loman, 1895) comb. nov.	– E. Malaysia
<i>Diversibipalium falcatum</i> (von Graff, 1899) comb. nov.	– Indonesia - Sumatra
<i>Diversibipalium fenestratum</i> (von Graff, 1899) comb. nov.	– Indonesia - Java
<i>Diversibipalium ferudpoorensis</i> (Wright, 1860) comb. nov.	– India
<i>Diversibipalium flowei</i> (von Graff, 1899) comb. nov.	– India ; Sri Lanka
<i>Diversibipalium fuliginum</i> (Geba, 1909) comb. nov.	– Madagascar
<i>Diversibipalium fulvum</i> (Kaburaki, 1922) comb. nov.	– Japan (CJ)
<i>Diversibipalium fuscocephalum</i> (Kaburaki, 1922) comb. nov.	– Japan (NJ)
<i>Diversibipalium gebai</i> (Ogren et Kawakatsu, 1987) comb. nov.	– Madagascar
<i>Diversibipalium giganteum</i> (Whitehouse, 1914) comb. nov.	– India
<i>Diversibipalium grandidieri</i> (Mell, 1902) comb. nov.	– Madagascar
<i>Diversibipalium grayi</i> (Wright, 1860) comb. nov.	– India ; China (NEC)
<i>Diversibipalium gulliveri</i> (von Graff, 1899) comb. nov.	– Madagascar
<i>Diversibipalium haasei</i> (von Graff, 1899) comb. nov.	– Thailand
<i>Diversibipalium hasseltii</i> (Loman, 1890) comb. nov.	– Indonesia - Java
<i>Diversibipalium hildebrandi</i> (von Graff, 1899) comb. nov.	– Madagascar
<i>Diversibipalium houghtoni</i> (Mosely, 1875) comb. nov.	– E. Malaysia
<i>Diversibipalium indicum</i> (Whitehouse, 1919) comb. nov.	– India
<i>Diversibipalium isabellinum</i> (Geba, 1909) comb. nov.	– Mauritius
<i>Diversibipalium jalorense</i> (Laidlaw, 1903) comb. nov.	– W. Malaysia
<i>Diversibipalium jansei</i> (Müller, 1907) comb. nov.	– Indonesia - Java
<i>Diversibipalium keshavi</i> (Saxena, 1957) comb. nov.	– Nepal
<i>Diversibipalium kirckpatricki</i> (von Graff, 1899) comb. nov.	– India ; Sri Lanka
<i>Diversibipalium koreense</i> (Frieb, 1923) comb. nov.	– Korea
<i>Diversibipalium kuhlii</i> (Loman, 1890) comb. nov.	– Indonesia - Sumatra
<i>Diversibipalium layardi</i> (von Graff, 1899) comb. nov.	– Indonesia - Sulawesi
<i>Diversibipalium lehnerti</i> (von Graff, 1899) comb. nov.	– Indonesia - Java
<i>Diversibipalium lomani</i> (von Graff, 1899) comb. nov.	– Indonesia - Java
<i>Diversibipalium longitudinalis</i> (de Beauchamp, 1933) comb. nov.	– E. Malaysia
<i>Diversibipalium lunatum</i> (Gray, 1835) comb. nov.	– India
<i>Diversibipalium maculatum</i> (Stimpson, 1857) comb. nov.	– Japan (SWI)
<i>Diversibipalium madagascarense</i> (von Graff, 1899) comb. nov.	– Madagascar
<i>Diversibipalium marenzelleri</i> (Mell, 1902) comb. nov.	– Madagascar
<i>Diversibipalium megacephalum</i> (Müller, 1902) comb. nov.	– Malaysia
<i>Diversibipalium modiglianii</i> (von Graff, 1894) comb. nov.	– Indonesia - Sumatra
<i>Diversibipalium molle</i> (von Graff, 1899) comb. nov.	– Indonesia - Java
<i>Diversibipalium multilineatum</i> (Makino et Shirasawa, 1983), comb. nov.	– Japan (CJ, SJ)
<i>Diversibipalium murinum</i> (von Graff, 1899) comb. nov.	– Madagascar
<i>Diversibipalium natunense</i> (Meixner, 1906) comb. nov.	– Indonesia - Natuna Is.
<i>Diversibipalium negritorum</i> (von Graff, 1899) comb. nov.	– Philippines
<i>Diversibipalium nigrilumbe</i> (Loman, 1890) comb. nov.	– Indonesia - Sumatra
<i>Diversibipalium ocellatum</i> (von Graff, 1899) comb. nov.	– Indonesia - Java
<i>Diversibipalium olivaceps</i> (Geba, 1909) comb. nov.	– Madagascar
<i>Diversibipalium piceum</i> (von Graff, 1899) comb. nov.	– Indonesia - Sulawesi
<i>Diversibipalium pictum</i> (Ritter - Záhony, 1905) comb. nov.	– Indonesia - Java
<i>Diversibipalium quadricinctum</i> (Loman, 1890) comb. nov.	– Indonesia - Sumatra
<i>Diversibipalium rauchi</i> (von Graff, 1899) comb. nov.	– Singapore
<i>Diversibipalium richtersi</i> (von Graff, 1899) comb. nov.	– Madagascar
<i>Diversibipalium ridleyi</i> (von Graff, 1899) comb. nov.	– Singapore

<i>Diversibipalium roonwali</i> (Ramakrishna et Chahan, 1962), comb. nov.	– India
<i>Diversibipalium rotungense</i> (Whitehouse, 1914) comb. nov.	– India
<i>Diversibipalium ruteofulvum</i> (Kaburaki, 1922) comb. nov.	– Taiwan
<i>Diversibipalium salvini</i> (von Graff, 1899) comb. nov.	– Indonesia - Sulawesi
<i>Diversibipalium sarasini</i> (Müller, 1907) comb. nov.	– Indonesia - Sulawesi
<i>Diversibipalium sexcinctum</i> (Loman, 1890) comb. nov.	– Indonesia - Sumatra
<i>Diversibipalium shipleyi</i> (von Graff, 1899) comb. nov.	– Indonesia - Sulawesi
<i>Diversibipalium simplex</i> (von Graff, 1899) comb. nov.	– Indonesia - Java
<i>Diversibipalium smithi</i> (von Graff, 1899) comb. nov.	– India
<i>Diversibipalium solmsi</i> (von Graff, 1899) comb. nov.	– Indonesia - Java
<i>Diversibipalium sordidum</i> (Whitehouse, 1914) comb. nov.	– India
<i>Diversibipalium splendens</i> (Whitehouse, 1919) comb. nov.	– India
<i>Diversibipalium steindachneri</i> (von Graff, 1899) comb. nov.	– W. Malaysia
<i>Diversibipalium stimpsoni</i> (Diesing, 1861) comb. nov.	– Hong Kong, China
<i>Diversibipalium sumatrense</i> (Loman, 1883) comb. nov.	– Indonesia - Sumatra
<i>Diversibipalium superbum</i> (von Graff, 1899) comb. nov.	– Indonesia - Java
<i>Diversibipalium sylvestre</i> (Whitehouse, 1919) comb. nov.	– India
<i>Diversibipalium tamatavense</i> (von Graff, 1899) comb. nov.	– Madagascar
<i>Diversibipalium tau</i> (Mell, 1903) comb. nov.	– Madagascar
<i>Diversibipalium tennentii</i> (Diesing, 1861) comb. nov.	– Sri Lanka
<i>Diversibipalium transversefasciatum</i> (Müller, 1903) comb. nov.	– W. Malaysia
<i>Diversibipalium trilineatum</i> (Stimpson, 1857) comb. nov.	– Japan (NJ)
<i>Diversibipalium tripartitum</i> (von Graff, 1899) comb. nov.	– Philippines
<i>Diversibipalium unicolor</i> (Moseley, 1877) comb. nov.	– Indonesia - Sulawesi ; Philippines
<i>Diversibipalium vinosum</i> (Kaburaki, 1925) comb. nov.	– India - Andaman Is. ; Indonesia - Sumatra
<i>Diversibipalium virchowii</i> (von Graff, 1899) comb. nov.	– Indonesia - Sumatra
<i>Diversibipalium virgatum</i> (Stimpson, 1858) comb. nov.	– Japan (SWD) ; Taiwan
<i>Diversibipalium vittatum</i> (Loman, 1887) comb. nov.	– Indonesia - Java
<i>Diversibipalium weberi</i> (Loman, 1890) comb. nov.	– Indonesia - Sumatra
<i>Diversibipalium whitehousei</i> (Ogren et Kawakatsu, 1987) comb. nov.	– India
<i>Diversibipalium wrightii</i> (von Graff, 1899) comb. nov.	– Indonesia - Sulawesi

The summarized data on the Bipaliidae proposed in the present article are shown in Table 2.

Table 2. An itemized list of the family Bipaliidae.

Family & Genus	No. of species described	Species description is based upon:		
		Sexual specimens FCA (reported)	Asexual specimens FCA (unknown)	Sex. / Total (%)
<b>BIPALIIDAE</b>				
<i>Bipalium</i>	48	48	0	100
<i>Diversibipalium</i>	95	0	95	0
<i>Humbertium</i>	22	22	0	100
<i>Novibipalium</i>	4	4	0	100
<b>Total</b>	<b>169</b>	<b>74</b>	<b>95</b>	<b>43.79</b>

## REFERENCES FOR PART I

References for Table 1 are not listed here.

BEAUCHAMP, P. DE, 1925. Quelques Triclaides terrestres de Borneo (note préliminaire). Arch. Zool. Expér. Génér., 64, Notes et Revue, (3): 63-70. 1926. Planaires terrestres de Sarawak. Sarawak Mus. Jour., 3 (Part 3), (10): 323-368 + pl. 13. 1930. Turbellariés Triclaides de l'Inde méridionale. Rev. Suisse Zool., 37, (23): 673-746 + pl. 8. 1933. Planaires terrestres du Raffles Museum. Bull. Raffles Mus., Singapore, Straits Settlements, (8): 109-120 + pl. VI.

GRAFF, L. VON, 1896. Über das System und die geographische Verbreitung der Landplanarien. Verhandl. Deutsch. Zool. Gesellschaft, 6: 75-93. 1899, *Monographie der Turbellarien. II. Tricladida Terricola (Landplanarien)*. Pp. i-ixv + 1-574; *Atlas von Achtundfünfzig Tafeln zur Monographie der Turbellarien. II. Tricladida Terricolen (Landplanarien)*. Taf. I-LVIII. Verlag von Wilhelm Engelmann, Leipzig.

GRUBE, E., 1866. Beschreibungen neuer von der Novara-Expedition mitgebrachter Anneliden und eine neuen Landplanarie. Verhandl. d. k. k. zool.-bot. Ges. in Wien, 16: 173-184.

HUMBERT, M. A. & CLAPARÈDE, M. E., 1862. Description de quelques espèces nouvelles de planaires terrestres de Ceylon. Mem. Soc. Phys. Hist. Nat. Genève, 16: 293-311 + pl.

KABURAKI, T., 1922. On the terrestrial planarians from Japanese territories. Jour. Coll. Sci. Imp. Univ. Tokyo, 44 (Art. 4): 1-54 + pl. 1.

KAWAKATSU, M., 1991. Redescription of *Bipalium trifuscostriatum* Kaburaki, 1922, a land planarian from the Kinki Region, Honshû, Japan (Turbellaria; Tricladida; Terricola). Bull. Biogeogr. Soc. Japan, 46: 39-52.

KAWAKATSU, M., OGREN, R. E. & FROEHLICH, E. M., 1998. The taxonomic revision of several homonyms in the genus *Bipalium*, family Bipaliidae (Turbellaria, Seriata, Tricladida, Terricola). Bull. Fuji Women's College, (36), II: 83-93. 2000. Additions and corrections, etc. Additions and corrections of the previous land planarian indices of the world-8 (2). Bull. Fuji Women's College, (38), II: 83-103 (+ Appendix).

KAWAKATSU, M., OGREN, R. E., FROEHLICH, E. M. & SASAKI, G.-Y., 2001. Additions and corrections, etc. Additions and corrections of the previous land planarian indices of the world-9. Bull. Fuji Women's College, (39), II: 111-120. <http://www.ct.sakura.ne.jp/~gen-yu/pla/lpindex/ix2001.pdf>

LOMAN, J. C. C., 1887. Ueber den Bau von *Bi-*

*paliium*, Stimpson, nebst Beschreibung neuer Arten aus dem indischen Archipel. Bijdrag. Dierkunde, 14: 61-88 + pls. I-II.

MACK-FIRÁ, V. & KAWAKATSU, M., 1972. The fauna of the lava caves around Mt. Fuji-san. XII. Proseriata et Tricladida (Turbellaria). Bull. Natn. Sci. Mus., 15 (4): 637-648 + pls. 1-2.

MELL, C., 1902. Die Landplanarien der Madagassischen Subregion. Abhandl. Senckenb. Naturf. Ges., 27: 193-236 + pls. XXX-XXXII.

MOSELEY, H. N., 1875. On the anatomy and histology of the land-planarians of Ceylon, with some account of their habits, and a description of two new species, and with notes on the anatomy of some European aquatic species. Philos. Trans. Royal Soc., London (1874), 4: 105-171 + pls. X-XV.

MÜLLER, J., 1902. Ein Beitrage zur Kenntnis der Bipaliiden. Zeitschr. Wiss. Zool., 73: 75-114 + pls. IV-VI. 1907. Weitere Beitrage zur Kenntnis der Bipaliiden. Zeitschr. Wiss. Zool., 86: 416-445 + pls. XIX-XX.

OGREN, R. E. & KAWAKATSU, M., 1987. Index to the species of the genus *Bipalium* (Turbellaria, Tricladida, Terricola). Bull. Fuji Women's College, (25), II: 79-119. 1988. Index to the Species of the genus *Bipalium* (Turbellaria, Tricladida, Terricola). Additions and corrections. Occ. Publ., Biol. Lab. Fuji Women's College, Sapporo (Hokkaidô), Japan. (19): 1-16. 1989. Index to the species of the family Rhynchodemidae (Turbellaria, Tricladida, Terricola). Part II. Microplaninae. Bull. Fuji Women's College, (27), II: 53-111. 1991. Index to the species of the family Geoplanidae (Turbellaria, Tricladida, Terricola). Part II: Caenoplaninae and Pelmatoplaninae. Bull. Fuji Women's College, (29), II: 25-102.

OGREN, R. E., KAWAKATSU, M. & FROEHLICH, E. M., 1992. Additions and corrections of the previous land planarian indices of the world (Turbellaria, Tricladida, Terricola). Bull. Fuji Women's College, (30), II: 59-103. 1993. Additions and corrections, etc. Addendum I. Combined taxonomic index: Bipaliidae; Rhynchodemidae (Rhynchodeminae; Microplaninae); Geoplanidae (Geoplaninae; Caenoplaninae; Pelmatoplaninae) — Exclusive of Winsor's second 1991 paper—. Bull. Fuji Women's College, (31), II: 33-60. 1994. Additions and corrections, etc. Additions and corrections of the previous land planarian indices of the world-3. Bull. Fuji Women's College, (32), II: 73-86. 1995. Additions and corrections, etc. Additions and corrections of the previous land planarian indices of the world-4. Bull. Fuji Women's College, (33), II: 79-85. 1996. Additions and corrections, etc. Additions and corrections of the previous land planarian



indices of the world-5. Bull. Fuji Women's College, (34), II: 87-93. 1997a. Additions and corrections, etc. Additions and corrections of the previous land planarian indices of the world-6. Bull. Fuji Women's College, (35), II: 55-61. 1997b. Additions and corrections, etc. Addendum IV. Geographic locus index: Bipaliidae; Rhynchodemidae (Rhynchodeminae; Microplaninae); Geoplanidae (Geoplaninae; Caenoplaninae; Pelmatoplaninae). Bull. Fuji Women's College, (35), II: 63-103 (+ Appendices I-V). 1998a. Additions and corrections, etc. Additions and corrections of the previous land planarian indices of the world, etc. Addendum IV, etc. Errata. Occ. Publ., Biol. Lab. Fuji Women's College, Sapporo (Hokkaidô), Japan, (31): 1-4. 1998b. Additions and corrections, etc. Additions and corrections of the previous land planarian indices of the world-7. Bull. Fuji Women's College, (36), II: 75-82. 1999. Additions and corrections, etc. Addendum V. The taxonomic change of land planarians reported in recent publications (1998-1999). Additions and corrections of the previous land planarian indices of the world-8 (1). Bull. Fuji Women's College, (37), II: 93-103.

OGREN, R. W. & SLUYS, R., 2001. The genus *Humbertium* gen. nov., a new taxon of the land planarian family Bipaliidae (Tricladida, Terricola). Belg. Jour. Zool., 131 (Suppl. 1): 201-204.

OKUGAWA, K. I., 1953. A monograph of Turbellaria (Acoela, Rhabdoacoela, Alloeoacoela and Tricladida) of Japan and its adjacent regions. Bull. Kyoto Gakugei Univ., B, (3): 20-43.

SABUSSOWA, Z. (=ZABUSOVA, Z.; ZABUSOVA-ZHDANOVA, Z. I.), 1925. Drei neue Arten von Landplanarien. Zool. Jb., Syst., 50: 283-298 + pl. VI.

STIMPSON, W., 1857. Prodromus descriptiones animalium evertibratorum quae in Expeditione ad Oceanum, Pacificum Septentrionalem a Republica Federata missa, Johanne Rodgers Duce, observavit et descripsit. Proc. Acad. Nat. Sci. Philad., 9: 19-31.

## PART II

### ADDITIONS AND CORRECTIONS OF THE PREVIOUS LAND PLANARIAN INDICES OF THE WORLD – 10

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. 111-113).

BFC25. Pp. 81-82. *Bipalium adventitium* Hyman, 1943. Add the following items.

*Bipalium adventitium*: Blackshaw & Stewart, 1991: 212.

*Bipalium adventitium*: Baguñà, Carranza, Paps, Ruiz-Trillo & Riutort, 2001: 51, table 6-1, 54, fig. 6-5 (neighbour-joining tree on 18S rDNA data).

*Bipalium adventitium*: Boag & Yeates, 2001b: 1283.

BFC25. P. 87. *Bipalium fuscatum* Stimpson, 1857 (?). BFC37. P. 94. *Novibipalium falsifuscatum* Kawakatsu, Ogren et Froehlich, 1998 (?). Add the following items.

Kuro-kogaibiru: Takazuma, 2001: 11, photo (middle-left, DB). Nose City, Ôsaka Pref., Honshû / Japan.

*Bipalium fuscatum* (or *Novibipalium falsifuscatum*): Gunji, 2002: 185-186, figs. 3-10 (DB). Ciba City, Chiba Pref., Honshû / Japan.

BFC25. Pp. 87-88. *Bipalium fuscolineatum* Kaburaki, 1922. Add the following item.

*Bipalium fuscolineatum*: Gunji, 2002: 183, fig. 3-5 (DB in color). Chiba City, Chiba Pref., Honshû / Japan.

BFC25. Pp. 91-93. *Bipalium kewense* Moseley, 1878. Add the following items.

*Bipalium kewense*: Blackshaw & Stewart, 1991: 201, 209.

*Bipalium kewense*: Cannon, Baker, Taylor & Moore, 1999: 598.

*Bipalium kewense*: Baguñà, Carranza, Paps, Ruiz-Trillo & Riutort, 2001: 51, table 6-1, 53, fig. 6-3, 54, fig. 6-4 (neighbour-joining tree based on 18S rDNA data).

*Bipalium kewense*: Boag & Yeates, 2001b: 1277-1278.

*Bipalium kewense*: Jones & Boag, 2001: 81.

*Bipalium* sp.: Kubota, 2001: 23-25, table 2. Shinjô Park, Tanabe City, Wakayama Pref., Honshû / Japan.

Note. Dr. Kubota's (2001) data includes 2 bipaliid species: *Bipalium kewense* and *Bipalium* sp. Nagasaki-5? See BFC39, pp. 111, 113.

BFC25. P. 97. *Bipalium nobile* Kawakatsu et Makino, 1982. Add the following items.

*Bipalium nobile*: Takahashi, 2000: 34, fig. 2 (DB). Okayama Pref., Honshû / Japan.

*Bipalium nobile*: Kitamoto, 2001: 2nd page, photos 1-3 in color (DB, DH, etc.). Kôbe City, Hyôgo Pref., Honshû / Japan.

*Bipalium nobile*: Nihon Keizai Shinbun, Nov. 25, 2001: 26. Tôkyô and the vicinity / Japan.

*Bipalium nobile*: Gunji, 2002: 184, figs. 3-6, 3-7 (DB, photos). Chôshi City, Chiba Pref. and Tôkyô, Honshû / Japan.

BFC25. P. 111. Insert a new collective group (genus) and species list before the References (see Part I of the present paper with Table 1). Notice the genera *Novibipalium* Kawakatsu, Ogren et Froehlich, 1998, and *Humbertium* Ogren et Sluys, 2001. BFC37, p. 94; BFC38, p. 85; BFC39, pp. 112-113.

Genus *Diversibipalium* Kawakatsu, Ogren, Froehlich et Sasaki, 2002 (collective group)

Literature: Part I of the present paper.

BFC25. Pp. 96-97. (Under *Bipalium*). *Diversibipalium multilineatum* (Makino et Shirasawa, 1983). Add the following item.

*Bipalium multilineatum*: Gunji, 2002: 184-185, figs. 3-8 (DB in color; schematic figures of both dorsal and ventral views). Chôshi City, Chiba Pref., Honshû / Japan.

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; BFC37, p. 97; 2000: BFC38, pp. 84-85; 2001: BFC39, p. 113).

Note. Every undescribed Bipaliid Species will be listed under a collective group, *Diversibipalium*.

*Diversibipalium* sp. in Baguña et al., 2001.

*Bipalium* sp.: Baguña, Carranza, Paps, Ruiz-Trillo & Riutort, 2001: 51, table 6-1, 54, fig. 6-5 (neighbour-joining tree on 18S rDNA data).

*Diversibipalium* sp. of Chiba City-1. Gunji, 2002.

*Bipalium* sp. (or *Novibipalium* sp.) No. 1: Gunji, 2002: 186, fig. 3-11 (DB in color). Chiba City, Chiba Pref., Honshû / Japan.

*Diversibipalium* sp. of Chiba City-2. Gunji, 2002.

*Bipalium* sp. (or *Novibipalium* sp.) No. 2: Gunji, 2002: 186, fig. 3-12 (DB in color). Chiba City, Chiba Pref., Honshû / Japan.

*Diversibipalium* sp. of Darjeeling, India. Patra & Aditya, 2001.

*Bipalium* sp.: Patra & Aditya, 2001: 496-499, figs. 1-13 (DVB, etc.). Darjeeling (alt. 1830-2134m), West Bengal / India.

Note. According to the authors, the animal has 15 to 20cm long and 1 to 3 [?]cm with 3 to 5 yellow or black stripes on the dorsal surface

of the body.

BFC39. P. 113. (Under *Bipalium*). *Diversibipalium* sp. Nagasaki-5? Kawakatsu, Yamamoto, Ogren & Takai, 2000. Add the following item.

*Bipalium* sp.: Kubota, 2001: 23-25, table 2. Shinjô Park, Tanabe City, Wakayama Pref., Honshû / Japan.

Note. Dr. Kubota's (2001) data includes 2 bipaliid species: *Bipalium kewense* and *Bipalium* sp. Nagasaki-5? See BFC39, pp. 111, 113.

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

BFC26. Pp. 57-58. *Dolichoplana striata* Moseley, 1877. Add the following items.

*Dolichoplana striata*: Blackshaw & Stewart, 1991: 201, 209.

*Dolichoplana striata*: Cannon, Baker, Taylor & Moore, 1999: 597.

*Dolichoplana striata*: Boag & Yeates, 2001b: 1277.

BFC26. Pp. 64-65. *Platydemus manokwari* de Beauchamp, 1962. Add the following items.

*Platydemus manokwari*: Blackshaw & Stewart, 1991: 216.

*Platydemus manokwari*: Baguña, Carranza, Paps, Ruiz-Trillo & Riutort, 2001: 52, table 6-1, 54, fig. 6-5 (neighbour-joining tree based on 18S rDNA data).

BFC26. P. 71. *Rhynchodemus hallezi* von Graff, 1899. Add the following items.

*Rhynchodemus hallezi*: Cannon, Baker, Taylor & Moore, 1999: 597.

*Rhynchodemus hallezi*: Boag & Yeates, 2001b: 1277.

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

*Rhynchodemus sylvaticus*: Blackshaw & Stewart, 1991: 209-210.

*Rhynchodemus sylvaticus*: Cannon, Baker, Taylor & Moore, 1999: 597.

*Rhynchodemus sylvaticus*: Boag & Yeates, 2001b: 1277.

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; 2001: BFC39, p. 114).

BFC38. P. 86. *Dolichoplana* sp. of New South Wales & Queensland. Winsor, 1998. Add the following items.

*Dolichoplana* sp.: Cannon, Baker, Taylor & Moore, 1999: 605.

*Dolichoplana* sp.: Boag, & Yeates, 2001b: 1283.

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, 78-80; 1993: *Ibid.*, No. 31, Ser. II, pp. 81-82; 1994: *Ibid.*, No. 32, Ser. II, 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. 114).

BFC27. P. 66. *Microplana humicola* Vejdovský, 1890. Add the following item.

*Microplana humicola*: Boag & Yeates, 2001b: 1277.

BFC39. P. 114. *Microplana nana* Mateos, Giribet et Carranza, 1998. Cf. BFC38, p. 89, Commentary. Add the following item.

*Microplana nana*: Baguña, Carranza, Paps, Ruiz-Trillo & Riutort, 2001: 51, table 6-1, 53, fig. 6-3, 54, figs. 6-4, 6-5 (neighbour-joining tree based on 18S rDNA data).

BFC27. Pp. 70-71. *Microplana scharffi* (von Graff, 1896). Add the following items.

*Microplana scharffi*: Blackshaw & Stewart, 1991: 201.

*Microplana scharffi*: Cannon, Baker, Taylor & Moore, 1999: 597.

*Microplana scharffi*: Boag & Yeates, 2001b: 1277.

BFC27. Pp. 72-77. *Microplana terrestris* (Müller, 1774). Add the following items.

*Microplana terrestris*: Blackshaw & Stewart, 1991: 201, 212.

*Microplana terrestris*: Cannon, Baker, Taylor & Moore, 1999: 597.

*Microplana terrestris*: Baguña, Carranza, Paps, Ruiz-Trillo & Riutort, 2001: 52, table 6-1, 54, fig. 6-5 (neighbour-joining tree based on 18S rDNA data).

*Microplana terrestris*: Boag & Yeates, 2001b: 1277.

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

Not reported during the past one year.

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. 114-117).

BFC28. P. 115. *Geoplana (Geoplana) beckeri* Froehlich, 1959. Add the following item.

*Geoplana beckeri*: Carbayo & Leal-Zanchet, 2001: 445-446.

BFC28. Pp. 116-117. *Geoplana (Geoplana) caapora* Froehlich, 1958. Add the following item.

*Geoplana caapora*: Carbayo & Leal-Zanchet, 2001: 445-446.

BFC28. P. 117. *Geoplana (Geoplana) carrierei* von Graff, 1897. Add the following item.

*Geoplana carrierei*: Carbayo & Leal-Zanchet, 2001: 445-446.

BFC28, P. 118. *Geoplana (Geoplana) chiuna* E. M. Froehlich, 1955. Add the following item.

*Geoplana chiuna*: Carbayo & Leal-Zanchet, 2001: 445.

BFC28. Pp. 118-119. *Geoplana (Geoplana) crawfordi* de Beauchamp, 1939. Add the following item.

*Geoplana crawfordi*: Carbayo & Leal-Zanchet, 2001: 445.

BFC28. P. 119. *Geoplana (Geoplana) crioula* E. M. Froehlich, 1955. Add the following item.

*Geoplana crioula*: Carbayo & Leal-Zanchet, 2001: 445-446.

BFC28. Pp. 120-121. *Geoplana (Geoplana) fragai* Froehlich, 1955. Add the following item.

*Geoplana fragai*: Carbayo & Leal-Zanchet, 2001: 445.

BFC28. P. 121. *Geoplana (Geoplana) gaucha* Froehlich, 1959. Add the following item.

*Geoplana gaucha*: Carbayo & Leal-Zanchet, 2001: 445-446.

BFC28. Pp. 121-122. *Geoplana (Geoplana) goettei* Schirch, 1929. Add the following item.

*Geoplana goettei*: Carbayo & Leal-Zanchet, 2001: 445.

BFC28. P. 122. *Geoplana (Geoplana) incognita* Riester, 1938. Add the following item.

*Geoplana incognita*: Carbayo & Leal-Zanchet, 2001: 445.

BFC28. P. 123. Insert a new species and a new species list next to *Geoplana (G.) joia*. *Geoplana (Geoplana) josefi* Carbayo et Leal-Zanchet, 2001.

- Geoplana josefi* sp. nov.: Carbayo & Leal-Zanchet, 2001: figs. 1-17 (DB, AE, FCA, HI, PCA, and schematic figure of the pharynx). São Francisco de Paula, Rio Grande do Sul / Brazil.
- BFC28. P. 123. *Geoplana (Geoplana) ladislavii* von Graff, 1899. Add the following item.  
*Geoplana ladislavi*: Baguñà, Carranza, Paps, Ruiz-Trillo & Riutort, 2001: 51, table 6-1, 54, fig. 6-5 (neighbour-joining tree on 18S rDNA data). Spelling error. Note. The specific name is *ladislavii*, not "*ladislavi*".
- BFC28. P. 142. Under *Notogynaphallia matuta*. *Geoplana (Geoplana) matuta* Froehlich, 1955. Add the following item.  
*Geoplana matuta*: Carbayo & Leal-Zanchet, 2001: 445.
- BFC28. P. 126. *Geoplana (Geoplana) mirim* E. M. Froehlich, 1972. Add the following item.  
*Geoplana mirim*: Carbayo & Leal-Zanchet, 2001: 445-446.
- BFC28. P. 127. *Geoplana (Geoplana) multicolor* von Graff, 1899. Add the following item.  
*Geoplana multicolor*: Carbayo & Leal-Zanchet, 2001: 445-446.
- BFC28. P. 129. *Geoplana (Geoplana) phocaica* Marcus, 1951. Add the following item.  
*Geoplana phocaica*: Carbayo & Leal-Zanchet, 2001: 445.
- BFC28. P. 123. *Geoplana (Geoplana) placilla* E. M. Froehlich, 1978. Add the following item.  
*Geoplana placilla*: Carbayo & Leal-Zanchet, 2001: 445.
- BFC28. Pp. 129-130. *Geoplana (Geoplana) polyophthalma* von Graff, 1899. Add the following item.  
*Geoplana polyophthalma*: Carbayo & Leal-Zanchet, 2001: 446.
- BFC28. P. 130. *Geoplana (Geoplana) preta* Riester, 1938. Add the following item.  
*Geoplana preta*: Carbayo & Leal-Zanchet, 2001: 445.
- BFC28. P. 130. Insert a new name and its list next to *Geoplana (G.) preta*. *Geoplana (Geoplana) prudhoei* Kawakatsu, Ogren Froehlich et Sasaki, nom. nov. [nec *Planaria vaginuloides* Darwin, 1844]. Add the following items.  
*Geoplana vaginuloides*: Prudhoe, 1949a: 422-424, fig. 2 (FCA). Mount Aripo, Trinidad / Trinidad and Tobago.  
*Geoplana vaginuloides*: C. G. Froehlich, 1967: 159.  
*Geoplana vaginuloides*: Prudhoe (non Darwin), 1949: Carbayo & Leal-Zanchet, 2001: 445.  
Note. *Geoplana (Geoplana) vaginuloides* (Darwin, 1844) was at first described from Rio de Janeiro under the name of "*Planaria vaginuloides*." Riester (1938) gave a redescription of this species (including genital anatomy with FCA) from the same area under the name of *Geoplana vaginuloides*.  
Later, Prudhoe (1949) reported the occurrence of sexual specimens of this Brazilian species in Mount Aripo, Trinidad, in Trinidad and Tobago. This Prudhoe's record is listed in the Land Planarian Indices Series as 'Misidentification?' in the items of *Geoplana (G.) vaginuloides* (Darwin, 1844) (cf. Ogren & Kawakatsu, 1990: 134). This is due to C. G. Froehlich's (1967: 159) note: '*G. vaginuloides*, Prudhoe (not Darwin), Trinidad.'
- Carbayo & Leal-Zanchet (2001: 445, table 3) considered that Prudhoe's (1949) *Geoplana vaginuloides* is different from Brazilian species described at first by Darwin (1844). The authors share the opinions proposed by C. G. Froehlich (1967a) and Carbayo & Leal-Zanchet (2001). A new name is proposed for Trinidad species.
- BFC28. P. 132. *Geoplana (Geoplana) saima* du Bois-Reymond Marcus, 1951. Add the following item.  
*Geoplana saima*: Carbayo & Leal-Zanchet, 2001: 445.
- BFC28. P. 132. *Geoplana (Geoplana) suva* Froehlich, 1959. Add the following item.  
*Geoplana suva*: Carbayo & Leal-Zanchet, 2001: 445.
- BFC28. P. 133. *Geoplana (Geoplana) tapira* Froehlich, 1958. Add the following item.  
*Geoplana tapira*: Carbayo & Leal-Zanchet, 2001: 445.
- BFC28. Pp. 133-134. *Geoplana (Geoplana) trigueira* E. M. Froehlich, 1955. Add the following item.  
*Geoplana trigueira*: Carbayo & Leal-Zanchet, 2001: 437, 446
- BFC28. P. 145. Under *Notogynaphallia tuxaua*. *Geoplana (Geoplana) tuxaua* E. M. Froehlich, 1955. Add the following item.  
*Geoplana tuxaua*: Carbayo & Leal-Zanchet, 2001: 445.
- UNDESCRIBED GEOPLANIDAE (Geoplaninae) SPECIES (1990: BFC28, pp. 162-165; 1994: BFC32, p. 77; 2000: BFC38, p. 91; 2001: BFC39, p. 117)
- Not reported during the past one year.
- E. GEOPLANIDAE INDEX, PART II: CAENOPLANINAE AND PELMATOPLANINAE (1991: Bull. Fuji Women's College, No. 29, Ser. II, pp. 25-102; 1992: *Ibid.*, No. 30, Ser. II, pp. 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).
- BFC37. Pp. 94-95. *Arthurdendyus albidus* Jones et Gerard, 1999. Add the following items.
- Arthurdendyus albidus*: Cannon, Baker, Taylor & Moore, 1999: 598.
- Arthurdendyus albidus*: Boag & Yeates, 2001b: 1277, 1282-1283.
- Arthurdendyus albida*: Boag & Yeates, 2001b: 1283. Spelling error.
- Arthurdendyus albidus*: Jones & Boag, 2001: 81.
- BFC29. Pp. 36-37 (Under *Artioposthia*). BFC37. P. 95. *Arthurdendyus australis* (Dendy, 1894). Add the following items.
- Geoplana triangulata* var. *australis*: Blackshaw & Stewart, 1991: 203.
- Arthurdendyus australis*: Boag & Yeates, 2001b: 1277, 1283.
- BFC29. P. 58. (Under *Artioposthia*.) BFC37. P. 95. *Arthurdendyus testaceus* (Hutton, 1880). Add the following items.
- Artioposthia testacea*: Baguña, Carranza, Paps, Ruiz-Trillo & Riutort, 2001: 51, table 6-1, 54, fig. 6-5 (neighbour-joining tree on 18S rDNA data).
- Arthurdendyus testaceus*: Boag & Yeates, 2001b: 1283.
- BFC29. P. 41. (Under *Artioposthia*.) BFC37. Pp. 94-96. *Arthurdendyus triangulatus* (Dendy, 1895). Add the following items.
- Artioposthia triangulata*: Anonymy, 1963: 17-18. N. Ireland / U. K.
- Artioposthia triangulata*: Anonymy, 1964: 13-14. N. Ireland / U. K.
- Artioposthia triangulata*: Blackshaw & Stewart, 1991: 201-217, figs. 1 (DB), 2-3 (distribution maps in N. Ireland and Scotland), 4 (coefficients of genetic similarity for geographically isolated populations). N. Ireland and Scotland / U. K.
- Artioposthia triangulata*: Stewart & Blackshaw, 1993: 459-467, figs. 1-4 (European distribution map, genetic relationship among 13 populations, etc.). N. Ireland / U. K.
- Artioposthia triangulata*: Baufeld, Motte & Unger, 1996: 14-17, fig. 1 (DB, cocoon). N. Germany.
- Artioposthia triangulata*: Blackshaw, 1996: 1089-1092.
- Artioposthia triangulata*: Hogan & Dunne, 1996: 210-211, fig. 1 (the latest distribution map in the Republic of Ireland). Ireland.
- Arthurdendyus triangulatus*: Cannon Baker, Taylor & Moore, 1999: 597-611, pl. 1 (DB, VB, cocoon), figs. 1-3 (distribution map in N. Ireland, Scotland and England) / U. K.
- Arthurdendyus triangulatus*: Boag, 2000: 79-83, fig. 1 (map). Dunoon, Scotland / U. K.
- Artioposthia triangulata*: Baguña, Carranza, Paps, Ruiz-Trillo & Riutort, 2001: 51, table 6-1, 53, fig. 6-3, 54, fig. 6-4 (neighbour-joining tree on 18S rDNA data).
- Arthurdendyus triangulatus*: Boag & Yeates, 2001a: 50-56, figs. 1 (DB and a cocoon in color) and 2 (change of the distribution in Scotland between 1965 and 1994).
- Arthurdendyus triangulatus*: Boag & Yeates, 2001b: 1276-1286, figs. 1-3 (distribution maps etc.).
- Arthurdendyus triangulatus*: Dynes, Fleming & Murchie, 2001: 165-172, figs. 1-4 (distribution map in N. Ireland, Scotland, England, and New Zealand (S. Island), etc.). U. K.; New Zealand.
- Arthurdendyus triangulatus* (= *Geoplana triangulata*; = *Artioposthia triangulata*): Jones & Boag, 2001: 77-81.
- Arthurdendyus triangulatus*: Jones, Santoro, Boag & Neilson, 2001: 75-91, figs. 1-11 (distribution maps, etc.).
- BFC29. Pp. 37-38. *Artioposthia diemenensis* (Dendy, 1894). Add the following item.
- Geoplana diemenensis*: Cannon, Baker, Taylor & Moore, 1999: 604.
- BFC29. P. 52. (Under *Australopacifica*.) BFC31. Pp. 72-73. *Artioposthia mortoni* (Dendy, 1894). Add the following item.
- Geoplana mortoni*: Cannon, Baker, Taylor & Moore, 1999: 604.
- BFC31. Pp. 73-74. *Australopacifica sanguinea sanguinea* (Moseley, 1877). See BFC29, pp. 54-55. *Australopacifica sanguinea* (Moseley, 1877). Add the following items.
- Geoplana sanguinea*: Blackshaw & Stewart, 1991: 201.
- Australopacifica sanguinea*: Baguña, Carranza, Paps, Ruiz-Trillo & Riutort, 2001: 57, table 6-1, 53, fig. 6-3, 54, fig. 6-4 (neighbour-joining tree on 18S rDNA data).
- BFC31. Pp. 73-74. *Australopacifica sanguinea alba* (Dendy, 1891). See BFC29, pp. 54-55. *Australopacifica sanguinea* (Moseley, 1877); BFC29, pp. 61-62. *Caenoplana alba* (Dendy, 1891); BFC36, p. 78. Add the following items.

- Australoplana sanguinea* (Moseley) var. *alba* sensu Jones (1981a): Cannon, Baker, Taylor & Moore, 1999: 598.
- Australoplana sanguinea alba*: Boag & Yeates, 2001b: 1277, 1280, 1283.
- Australoplana sanguinea alba*: Jones & Boag, 2001: 81.
- BFC29. Pp. 62-63. *Caenoplana coerulea* Moseley, 1877. See BFC31, 74. *Caenoplana coerulea* Moseley, 1877. Add the following items.
- Caenoplana coerulea*: Cannon, Baker, Taylor & Moore, 1999: 598.
- Caenoplana caerulea*: Baguñà, Carranza, Paps, Ruiz-Trillo & Riutort, 2001: 51, table 6-1, 53, fig. 6-3, 54, fig. 6-4 (neighbour-joining tree based on 18S rDNA data). Spelling error. Note. The specific name is *coerulea*, not "*caerulea*".
- Caenoplana coerulea*: Boag & Yeates, 2001b: 1277.
- BFC29. P. 69. *Endeavouria septemlineata* (Hyman, 1939). Add the following item.
- Geoplana septemlineata*: Blackshaw & Stewart, 1991: 209, 212.
- BFC29. P. 79. *Kontikia andersoni* Jones, 1981. Add the following items.
- Kontikia andersoni*: Blackshaw & Stewart, 1991: 201.
- Kontikia andersoni*: Cannon, Baker, Taylor & Moore, 1999: 597.
- Kontikia andersoni*: Boag & Yeates, 2001: 1277.
- BFC29. P. 84. *Kontikia ventrolineata* (Dendy, 1892). Add the following item.
- Kontikia ventrolineata*: Boag & Yeates, 2001b: 1277.
- BFC29. Pp. 85-87. *Newzealandia graffii* (Dendy, 1895). Add the following item.
- Pelmatoplana graffi*: Blackshaw & Stewart, 1991: 209.
- BFC29. P. 44. (Under *Australopacifica*.) BFC31. P. 76. *Parakontikia coxii* (Fletcher et Hamilton, 1888). Add the following items.
- Caenoplana coxii*: Cannon, Baker, Taylor & Moore, 1999: 597.
- Australopacifica coxii*: Boag & Yeates, 2001b: 1277.
- BFC29. Pp. 57-58. (Under *Australopacifica*.) BFC31. P. 77. *Tasmanoplana tasmaniana* (Darwin, 1844). Add the following item.
- Geoplana tasmaniana*: Cannon, Baker, Taylor & Moore, 1999: 604.
- 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; 2001: BFC39, p. 118.)
- Artioposthia* sp. in Baguñà et al., 2001.
- Artioposthia* sp.: Baguñà, Carranza, Paps, Ruiz-Trillo & Riutort, 2001: 51, table 6-1, 54, fig. 6-4 (neighbour-joining tree on 18S rDNA data).

## REFERENCES FOR PART II

- ANONYMY, 1963. Advisory work. In: Annual Progress Report on Research and Technical Work 1963, pp. 17-18. The Ministry of Agriculture, Government of Northern Ireland. Belfast. 1964. *Do. Ibid.*, 1964, pp. 13-14. The Ministry of Agriculture, Government of North Ireland. Belfast.
- BAGUÑÀ, J., CARRANZA, S., PAPS, J., RUIZ-TRILLO, I. & RIUTORT, M., 2001. Molecular taxonomy and phylogeny of the Tricladida. In: Littlewood, T. L. & Bray, R. A. (eds.), *Interrelationships of the Platyhelminthes*, pp.: 49-56. Taylor & Francis, London.
- BAUFELD, P. VON, MOTTE, G. & UNGER, J.-G., 1996. *Nachrichtenbl. Deut. Pflanzenschutzd.*, 48 (1): 14-17.
- BLACKSHAW, R. P., 1996. Control options for the New Zealand flatworm. Brighton CROP Protect. Conference - Pests & Diseases - 1996, pp. 1089-1094.
- BLACKSHAW, R. P. & STEWART, V., 1991. *Artioposthia triangulata* (Dendy, 1894), a predatory terrestrial planarian and its potential impact on lumbricid earthworms. *Agric. Zool. Rev.*, 5: 201-219.
- BOAG, B., 2000. The impact of the New Zealand flatworm on earthworms and moles in agricultural land in western Scotland. *Aspects Appl. Biol.* 62 (Farming systems for the new Millennium): 79-84.
- BOAG, B. & YEATES, G. W., 2001a. An unwelcome visitor. The New Zealand flatworm and its relatives. Royal Caledonian Horticultural Soc., The Caledonian Gardener (Spring Flower Show 2001, Sat. 31 Mar. & Sun. 1 Apr. 2001 at the Caledonian Hall, Edinburgh), pp. 49-56. 2001b. The potential impact of the New Zealand flatworm, a predator of earthworms, in Western Europe. *Ecol. Appl.*, 11 (5): 1276-1286.
- CANNON, R. J., BAKER, R. H., TAYLOR, M. & MOORE, J. P., 1999. A review of the status of the New Zealand flatworm in the UK. *Ann. Appl. Biol.*, 135: 597-614.
- CARBAYO, F. & LEAL-ZANCHET, A. M., 2001. A new species of terrestrial planarian (Platyhelminthes: Tricladida: Terricola) from South Brazil. *Brazil. Jour. Biol.*, 61 (3): 437-447.
- DYNES, C., FLEMING, C. C. & MURCHIE, A. K.,

2001. Genetic variation in native and introduced populations of the 'New Zealand flatworm', *Arthurdendyus triangulatus*. *Ann. Appl. Biol.*, 139: 165-174.

GUNJI, S., 2002. Platyhelminthes-Turbellaria. In: Chiba-ken Shiryô-Kenkyû-Zaidan (ed.), 'Chiba-ken no Shizenshi' (The Nature in Chiba Prefecture), pp. 180-186, 311. Mitsubishi-Denki Documentex, Chiba. (In Japanese.)

HOGAN, R. N. & DUNNE, R., 1996. The distribution of the New Zealand flatworm *Artioposthia triangulata* (Dendy) in the Republic of Ireland. *Ir. Nat. Jour.*, 25 (6): 210-212.

JONES, H. D. & BOAG, B., 2001. The invasion of New Zealand flatworms. *Glasgow Naturalist*, 23, Suppl.: 77-83.

JONES, H. D., SANTORO, G., BOAG, B. & NEILSON, R., 2001. The diversity of earthworms in 2000 Scottish fields and the possible effect of New Zealand land flatworms (*Arthurdendyus triangulatus*) on earthworm. *Ann. Appl. Biol.*, 139: 75-92.

KAWAKATSU, M., OGREN, R. E., FROEHLICH, E. M. & SASAKI, G.-Y., 2001. See 'References for Part I'.

KITAMOTO, H., 2001. *Bipalium nobile* found in the vicinities of Kôbe, Japan. *Rep. Hyogo Pref. Inst. Public Health*, (33): 2nd page. (In Japanese.)

KUBOTA, S., 2001. Animals dropped in a drainage ditch at the Shinjô Park in Tanabe City, Wakayama Prefecture, Japan. *Kuroshio*, (20): 21-22. (In Japanese.)

NIHON KEIZAI SHINBUN (The Nihon-Keizai), 2001. Tôkyô becomes warm: A fair number of SE Asian organisms are now naturalized in this Megalopolis (land planarians, anophelids, subtropical jellyfishes, etc.). November 25 (Sunday), 2001.

PATRA, B. C. & ADITYA, A. K., 2001. Circular form of regeneration in an unidentified species of land

planarians, *Bipalium* sp. *Indian Jour. Exper. Biol.*, 39 (5): 496-499.

STEWART, V. I. & BLACKSHAW, R. P., 1993. Genetic variation in populations of the terrestrial planarian *Artioposthia triangulata* (Dendy), and evidence for passive dispersal in Northern Ireland. *Ann. Appl. Biol.*, 123: 459-468.

TAKAHASHI, K., 2000. Observation and experiments of planarians. *Okayama-ken Kôtôgakkô Kyôiku-kenkyûkai Rikabukai Kaishi*, (50): 34-38. (In Japanese.)

TAKAZUMA, M., 2001. Kuroiro-kôgaibiru. Ôsaka Shizen-kankyô Hozen Kyôkai, Toshi-to-Shizen, (309): 11. (In Japanese.)

*The following papers on land planarians do not include species names.*

MURAYAMA, H., 2002. A webpage of abstracts on land planarians published in the Shibukitsubo (Bulletin of the Niigata Shell Club). *Shibukitsubo*, (23): 28. (In Japanese.)

<http://www.ct.sakura.ne.jp/~gen-yu/lp/shibukitsubo/lp.html>  
<http://www.ct.sakura.ne.jp/~gen-yu/lp/shibukitsubo/lp.pdf>

Note. The species mentioned in 5 original papers published in *Shibukitsubo* (1998-2001) are: *Bipalium fuscatum?*, *Bipalium nobile*, *Bipalium* sp. from Vladivostok, *Bipalium kewense*, and *Bipalium multilineatum*.

SHIRASAWA, Y., YOSHIHAMA, I., SEO, N. & FURUTA, E., 2001. Comparative studies on the epidermal mucous cells in several terrestrial animals. *Zool. Sci.*, Tôkyô, 18-Suppl.:41.

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