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An Annotated Bibliography of Taiwan Land Planarians, with Lists of Linked Papers on This Animal Group

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Introduction

The manuscript, entitled **Preliminary studies on Taiwan land planarians**, has been recently prepared by Wu, Kawakatsu, Lue, Lee, Tsai, Lin, Sluys and Sasaki. It will be submitted in a near future to Endemic Species Research, a biannual journal published by the Endemic Species Research Institute, Council of Agriculture, Chi-Chi, Nantou, Taiwan. A total of 19 species are reported. However, only a single species was identified as *Bipalium kewense* Mosley, 1878, and the rest of 18 species were identified either at the generic or subfamilial level.

The present web article is a companion volume of the aforementioned manuscript. The following five bibliographic informations are given.

1. An Annotated Bibliography of Taiwan Land Planarians.
2. Papers on Land Planarians from the Far East.
3. Land Planarian Indices Series (1987-2003, continuation)
4. Web Articles on Some Historical Information on Land Planarians.
5. A list of Publication on Japanese Turbellarians and Resources on the Web.

1). An annotated Bibliography of Taiwan Land Planarians

Kaburaki, T. 1922a. On the terrestrial planarians from Japanese territories. Journal of College of Science, Imperial University of Tokyo, 44 (4): 1-54 + pl. I.

This paper includes description of a single new species, *Bipalium ruteofulvum* from near Taihoku (=Taipei) and a distribution record of "*Placocephalus virgatus* (Stimpson)" (nec *Bipalium virgatum* Stimpson, 1857) from Taipei, Formosa (=Taiwan).

Bipalium ruteofluvum Kaburaki, 1922, a species inquirenda, is now tentatively classified as *Diversibipalium reteofulvum* (Kaburaki, 1922).

Winsor (1983) pointed out that "*Placocephalus virgatus* (Stimpson)" (sensu Kaburaki, 1922a) is conspecific with the cosmopolitan species *Bipalium kewense* Moseley, 1878 (cf. Ogren, Kawakatsu & Froehlich, 1997; Kawakatsu, Ogren, Froehlich & Sasaki, 2001; Kawakatsu & Sasaki, 2001; Kawakatsu, Sluys & Ogren, in press).

Additionally, Stimpson's (1857) *Bipalium virgatum* was reported from Ryûkyû Islands in the Southwest Islands of Japan (cf. Ogren & Kawakatsu, 1987; Kawakatsu & Sasaki, 2001). '*B. virgatum*', a species inquirenda, is now tentatively classified as *Diversibipalium virgatum* (Stimpson, 1857).

Kaburaki, T. 1922b. Notes on some terrestrial planarians. *Annotationes Zoologicae Japonenses*, 10 (14): 155-159.

"*Placocephalus virgatus*" collected from Kuraru (location uncertain), Formosa, is recorded. This undescribed Taiwan species seems to be *Bipalium kewense* Moseley, 1878 (see Kaburaki, 1922a above)

Kawaguti, S. 1932. On the physiology of land planarians. I. Phototaxis, with a note on the significance of the eye spots. II. Galvnotaxis. III. The problems of desiccation. *Memoirs of the Faculty of Science and Agriculture, Taihoku Imperial University, Formosa*, 7 (1): 15-27; 29-37; 39-55.

Bipalium sp. used for Kawaguti's experiments collected from the campus of the University (now Taiwan University, Taipei) is 8 to 10 cm long in life. Judging from brief sketch figures of the anterior part of the body (p. 23, fig. 4), the head has a pair of well-developed and recurved auricles. Coloration of the body and stripes are not mentioned in the text and figure.

This animal is listed as *Bipalium* sp. of Taipei, Taiwan, in the Index by Ogren & Kawakatsu (1987: 109). It should be listed tentatively as '*Diversibipalium*' sp. of Taipei (cf. Kawakatsu, Ogren & Froehlich, 1998).

Kawakatsu, M. 1983. Notes on land planarians. *Iden (The Heredity)*, Tôkyô, 37 (9): 52-61. (In Japanese.)

Kaburaki's (1922a) records of 2 bipalliid species from Taiwan are mentioned in Table 1 on page 55.

Kawakatsu, M. 1985. A note on the morphology of *Bipalium kewense* Moseley, 1878, and *Bipalium adventitium* Hyman, 1943 (Turbellaria, Tricladida, Terricola). *Bulletin of Fuji Women's College*, (23) II: 85-100.

Winsor's (1983) taxonomic treatment of "*Placocephalus virgatus*" is mentioned. It is a synonym of *Bipalium kewense*.

Kawakatsu, M. 1991a. Redescription of *Bipalium trifuscostriatum* Kaburaki, 1922, a land planarian from the Kinki Region, Honshû, Japan (Turbellaria; Tricladida; Terricola). *Bulletin of Biogeographical Society of Japan*, 46: 39-52.

Land planarian fauna of Taiwan is discussed in the section 'Introduction: Historical Background' (pp. 39-42).

Kawakatsu, M. 1991b. History of the study of Turbellaria in Japan. *Hydrobiologia*, 227: 389-398.

Studies on land planarians by Stimpson (1857, etc.), Kaburaki (1922a, b, etc.), Kawaguti (1932) and others are briefly reviewed.

Kawakatsu, M. 1998. Platyhelminthes: Turbellaria. In: Environmental Agency of the Prime Minister's Office (ed.), "A list of Japanese wild species of plants and animals: Invertebrates III," Chapter 42 (Other than marine species). Pp. 19-22. The Research Center of Natural Environment, Tôkyô. (In Japanese.)

"*Bipalium ruteofulvum*" is listed as a species inquirenda.

Kawakatsu, M., Lue, K.-Y., Takai, M., Hori, H., Muto, A. & Osawa, S. 1985. A new series of studies on the freshwater and land planarians from Taiwan. I. An additional list of localities (1980-84). *Bulletin of Fuji Women's College*, (23) II: 11-125.

Seven species of bipaliid (*Bipalium* spp. 1-7) were recognized from nine localities. (They should be shown as *Diversibipalium* spp. 1-7.) Samples from these nine localities were registered in Kawakatsu's Collection of Turbellarians (see pp. 120-122 and a distribution map of fig. 8).

Kawakatsu, M., Lue, K.-Y., Takai, M., Hori, H., Muto, A. & Osawa, S. 1986. A new series of studies on the freshwater and land planarians from Taiwan. III. An additional list of localities (1985-1986). Bulletin of Fuji Women's College, (24) II: 63-74.

Three species of bipaliid (*Bipalium* spp. 1, 5, 8) from four additional localities. (They should be shown as *Diversibipalium* spp. 1, 5, 8) (see pp. 70-71, with a revised map of fig. 6).

Kawakatsu, M., Ogren, R. E., Froehlich, E. M. & Sasaki, G.-Y. 2002. Miscellaneous papers on Turbellarians. Article II. Additions and corrections of the previous land planarian indices of the world (Turbellaria, Seriata Tricladida, Tricladida). Additions and corrections of the previous land planarian indices of the world-10. Bulletin of Fuji Women's University, (40) II: 162-177. <http://planarian.net/db/lpindex/ix2002.pdf>

A new genus (collective group), *Diversibipalium* Kawakatsu, Ogren, Froehlich & Sasaki, 2002, was described. *Diversibipalium ruteofulvum* (Kaburaki, 1922) from Taiwan was mentioned on p. 168.

Kawakatsu, M. & Sasaki, G.-Y. 2001. An electronic reproduction of the late Dr. T. Kaburaki's three color plates attached to his 1922 papers on Japanese marine, freshwater and land planarians (Platyhelminthes, "Turbellaria," Tricladida), with a taxonomic commentary. Web article only. <http://planarian.net/kswp/36/kaburaki.pdf>

For Taiwan bipaliid species, see the items of *Bipalium kewense* Moseley, 1878, and *Bipalium? Ruteofulvum* Kaburaki, 1922 (on pp. 10-11 and pl. 1). For the latter, see Kawakatsu, Ogren, Froehlich & Sasaki (2002). For old planarian papers, see also Kawakatsu & Sasaki (2004).

Kawakatsu, M. & Sasaki, G.-Y. 2004. The foundation of turbellariology in Japan was consolidated by papers published in the 1880-1925 age of the Zoological Magazine, Annotationes Zoologicae Japonenses, and the Journal of the College of Science, Imperial University of Tokyo. Web article only. (In Japanese.) <http://planarian.net/kswp/41/oldpaper.pdf>

See the article by Kawakatsu & Sasaki (2001) above.

Kawakatsu, M., Sluys, R. & Ogren, R. E. In press. Five new species of land planarian from Japan (Platyhelminthes, Tricladida, Bipaliidae), with a morphological review of all Japanese bipaliids and a biogeographic overview of Far Eastern species.

Taxonomy of *Diversibipalium ruteofulvum* (Kaburaki, 1922) is discussed.

Kawakatsu, M., Takai, M., Hori, H., Muto, A. & Osawa, S. 1986. Nature in Taiwan observed by five Japanese naturalists, 1. Collecting & Breeding (Saishû to Shiiku), Tôkyô, 48 (2): 72-75. (In Japanese.)

The distribution of freshwater and land planarians in the alpine region of Taiwan was given briefly on p. 74.

Moseley, H. N. 1878. Description of a new species of land planarian from the hothouses at Kew Gardens. Annals and Magazine of Natural History, Including Zoology, Botany, and Geology, (5) 1: 237-239.

Original description of *Bipalium kewense* Moseley, 1878.

Ogren R. E. & Kawakatsu, M. 1987. Index to the species of the genus *Bipalium* (Turbellaria, Tricladida, Terri-cola). Bulletin of Fuji Women's College, (25) II: 79-119.

Taiwan bipaliid species are listed and mentioned on pp. 101, 106 and 109.

Ogren, R. E., Kawakatsu, M. & Froehlich, E. M. 1992. Additions and corrections of the previous land planarian indices of the world (Turbellaria, Tricladida, Terricola). Bulletin of Fuji Women's College, (30) II: 59-103 (+ pls. I-IV).

Taiwan '*Bipalium ruteofulvum*' and "*Bipalium virgatum*" were mentioned on pp. 72-73.

Ogren, R. E., Kawakatsu, M. & Froehlich, E. M. 1993. Additions and corrections of the previous land planarian indices of the world (Turbellaria, Tricladida, Terricola). Addendum I. Combined taxonomic index: Bipaliidae; Rhynchodemidae (Rhynchodeminae; Microplaninae); Geoplanidae (Geoplaninae; Caenoplaninae; Pelmatoplaninae) --Exclusive of Winsor's second 1991 paper--. Bulletin of Fuji Woman's College, (31) II: 33-60.

Taiwan bipaliid species '*ruteofulvum*' and "*virgatum*" or "*virgatus*" were in the Indices.

Ogren, R. E., Kawakatsu, M. & Froehlich, E. M. 1997. Additions and corrections of the previous land planarian indices of the world (Turbellaria, Seriata, Tricladida, Terricola). Addendum IV. Geographic locus index: Bipaliidae; Rhynchodemidae (Rhynchodeminae; Microplaninae); Geoplanidae (Geoplaninae; Caenoplaninae; Pelmatopaninae). Bulletin of Fuji Women's College, (35) II: 63-103.

Three Taiwan bipaliid species, namely *Bipalium kewense* Moseley, 1878; '*B. ruteofulvum* Kaburaki, 1922', and "*B. virgatum* Stimpson, 1857", were listed (see pp. 72 and 78).

Okugawa, K. I. 1953. A monograph of Turbellaria (Acoela, Rhadocoela and Tricladida) of Japan and its adjacent regions. Bulletin of Kyoto Gakugei University, B (3): 20-43.

Bipalium ruteofulvum Kaburaki, 1922, and *Bipalium virgatus* (Stimpson, 1857) from Taiwan were listed (see pp. 42-43). The specific name "*virgatus*" is misspelled.

Osawa, S. 1992. A Collection of Japanese Reviews and Essays Selected by the Author at the Occasion of the Retirement from Nagoya University. 151 pp. (In Japanese.) Issued by the Laboratory of Molecular Genetics, Department of Biology, Nagoya University (Takahashi, Y., ed.). Printed: Shin-kyôwa Insatsu Kabushiki-gaisha, Nagoya.

This publication contains reproduction of an article by Kawakatsu, Takai, Hori, Muto & Osawa (1986), entitled "Nature in Taiwan observed by five Japanese naturalists, 1." See foregoing article.

Stimpson, W. 1857. Prodrômus descriptiones animalium evertibratorum quae in Expeditione ad Oceanum, Pacificum Septentrionalem a Republica Federata missa, Johanne Rodgers Duce, observavit et descripsit. Proceedings of the Academy of Natural Sciences of Philadelphia, 9: 19-31.

This paper includes original descriptions of the genus *Bipalium* Stimpson, 1857, and of *Bipalium virgatum* Stimpson, 1857. The occurrence of the latter in Taiwan was erroneously reported by Kaburaki (1922 a, b). See foregoing articles.

Tu, T.-J. 1940. Geschichtlicher Überblick über Studium der Turbellarien in Ostasien und Stand unserer Kenntnisse von Diesen. Zoologische Jahrbücher, Abteilung für Systematik, Ökologie und Geographie der Tiere, 73: 201-260.

'*Bipalium ruteofulvum* Kaburaki, 1922', and "*B. virgatus* (Stimpson, 1857)" are listed on pp. 223-224, and 249. The specific name "*virgatus*" is misspelled..

Winsor, L., 1983. A revision of the cosmopolitan land planarian *Bipalium kewense* Moseley, 1878 (Turbellaria: Tricladida: Terricola). Zoological Journal of Linnean Society, 79: 61-100.

He pointed out that "*Placocephalus virgatus* Kaburaki, 1922", is a synonym of *B. kewense* (see pp. 64, 80).

Wu, S.-K., Kawakatsu, M., Lue, K.-Y., Lee, J.-D., Tsai, C.-L., Lin, H.-H., Sluys, R. & Sasaki, G.-Y. In preparation. Preliminary study of Taiwan land planarians. Endemic Species Research, Taiwan.

A total of 17 species of Taiwan land planarians is given: *Bipalium kewense* Moseley, 1878, 13 species of *Diversibipalium* (Bipaliidae), one species from the family Rhynchodemidae, 2 species from the subfamily Caenoplaninae (Geoplanidae), and one species of *Australopacifica* (Caenoplaninae, Geoplanidae).

2). Papers on Land Planarians from the Far East

- Frieb, K. 1923. Beiträge zur Kenntnis der Genera *Bipalium* und *Rhynchodemus*. Zool. Jb. Syst., 46: 489-516, + Taf. 15.
- Kaburaki, T. 1922a. On the terrestrial planarians from Japanese territories. J. Coll. Sci., Tôkyô Imp. Univ., 44 (4): 1-54 + pl. I.
- Kaburaki, T. 1922b. Notes on some terrestrial planarians. Annot. Zool. Japon., 10 (14): 155-159.
- Katô, K. 1950. On some Turbellarians from Sanshi, North China. Zool. Mag., Tôkyô, 59: 188-190. (In Japanese.) See also Kawakatsu & Sasaki (2004).
- Kawakatsu, M. 1986. Land planarians from West Malaysia (Turbellaria; Tricladida; Terricola). Bull. Biogeogr. Soc. Japan, 41 (1): 1-15.
- Kawakatsu, M. 1987. Emendation of specific names of land planarians: Genus *Bipalium* Stimpson, 1858. Occ. Publ. Biol. Lab. Fuji Women's College, Sapporo (Hokkaidô), Japan, (17): 1-2.
- Kawakatsu, M. 1991a. 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. 1991b. History of the study of Turbellaria in Japan. Hydrobiologia, 227: 389-387.
- Kawakatsu, M. 1991c. Turbellaria, Tricladida, Terricola (Bipaliidae, Rhynchodemidae and Geoplanidae) /Enopla, Hoplonemertea (Prosorhochmidae). In: Aoki, J.-I. (ed.), Pictorial Keys of Soil Animals of Japan, figs. 11-15 + explanatory and references pages 1-2, 151. Tôkai Univ. Press, Tôkyô. (In Japanese.)
- Kawakatsu, M. 1999. Platyhelminthes and Nemertinea. In: Aoki, J.-I. (ed.), Pictorial Keys of Soil Animals of Japan, pp. viii (top-left photograph) and xxx (pictorial key by Aoki), 3-8, 11-12, 1015-1016 (References). Tôkai Univ. Press, Tôkyô. (In Japanese.)
- Kawakatsu, M., Chernyshev, A. V., Ogren, R. E. & Murayama, H. 2000. The first record of the bipaliid land planarian from Vladivostok in Russia (Turbellaria, Seriata, Tricladida, Terricola). Shibukitsubo, (21): 37-40. (In Japanese, with English abstract.) See Sasaki, Murayama & Kawakatsu (2001).
- Kawakatsu, M. & Kawakatsu, T. 1991. Redescription of *Bipalium hilgendorfi* (von Graff, 1899) (Turbellaria: Tricladida: Terricola), a land planaria from Sapporo, Hokkaidô, Japan. Proc. Jap. Soc. Syst. Zool., (45): 7-23.
- Kawakatsu, M. & Lue, K.-Y. 1984. History of the study of Turbellaria in China. Part 2. Age of studies by Japanese and Chinese turbellariologists. Bull. Fuji Women's College, (22) II: 105-117.
- Kawakatsu, M., Makino, N. & Shirasawa, Y. 1982. *Bipalium nobile* sp. nov. (Turbellaria, Tricladida, Terricola), a new land planarian from Tokyo. Annot. Zool. Japon., 55: 236-262.

- Kawakatsu, M., Murayama, H., Yamamoto, K. & Yoneyama, N. 1998. Distribution records of *Bipalium nobile* in Japan (Turbellaria, Tricladida, Seriata, Terricola). *Shibukitsubo* (19): 25-32. (In Japanese, with English summary.)
- Kawakatsu, M. & Ogren, R. E. 1994. A preliminary report on land planarians from the Northern Mariana Islands (Turbellaria, Tricladida, Terricola). *Nat. Hist. Res., Special Issue*, (1): 107-112 (2 plate figures).
- Kawakatsu, M. & Ogren, R. E. 1998a. Preprint of papers given at OECD Workshop on Terrestrial Planarians, Christchurch, New Zealand, February 16-20, 1998. *Occ. Publ. Biol. Lab. Fuji Women's College, Sapporo (Hokkaidô)*, Japan, (30): 1-8.
- Kawakatsu, M. & Ogren, R. E. 1998b. The Asian land planarian fauna Tricladida Terricola. *Pedobiologia*, 42: 452-456.
- 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.
- Kawakatsu, M., Ogren, R. E., Froehlich, E. M. & Murayama, H. 2001. On the places of origin of three, very large bipaliid land planarians from Japan (Turbellaria, Seriata, Tricladida, Terricola). *Shibukitsubo*, (22): 39-52. See Sasaki, Murayama & Kawakatsu (2001).
- Kawakatsu, M., Ogren, R. E., Froehlich, E. M. & Sasaki, G.-Y. 2002. Miscellaneous papers on Turbellarians. Article II. Additions and corrections of the previous land planarian indices of the world (Turbellaria, Seriata, Tricladida). Additions and corrections, etc. -10. *Bull. Fuji Women's Univ.*, (40) II: 162-177. <http://planarian.net/db/lpindex/ix2002.pdf>
- Kawakatsu, M., Ogren, R. E. & Muniappan, R. 1992. Redescription of *Platydemus manokwari* de Beauchamp, 1962 (Turbellaria; Tricladida; Terricola), from Guam and the Philippines. *Proc. Jap. Soc. Syst. Zool.*, (47): 11-25.
- Kawakatsu, M., Oki, I., Tamura, S., Ogren, R. E., Yamada, T. & Murayama, H. 1990. Preprint of papers given at the Sixth International Symposium on the Turbellaria, Hirosaki, Japan, August 7-12, 1990. *Occ. Publ., Biol. Lab. Fuji Women's College, Sapporo (Hokkaidô)*, Japan, (22): 1-16.
- Kawakatsu, M., Oki, I., Tamura, S., Itô, H., Nagai, Y., Ogura, K., Shimabukuro, S., Ichinohe, F., Katsumata, H. & Kaneda, M. 1993. An extensive occurrence of a land planarian, *Platydemus manokwari* de Beauchamp, 1962, in the Ryûkyû Islands, Japan (Turbellaria, Tricladida, Terricola). *Biol. Inland Waters, Nara*, (8): 5-14.
- Kawakatsu, M., Oki, I., Tamura, S., Sekiguchi, K. & Ogren, R. 1987. Preprint of papers given at the Fifth International Symposium on the Turbellaria, Göttingen, Bundesrepublik Deutschland, August 9-14, 1987. *Occ. Publ., Biol. Lab. Fuji Women's College, Sapporo (Hokkaidô)*, Japan, (18): 1-24.
- Kawakatsu, M., Oki, I., Tamura, S., Takai, M., Timoshkin, O. A. & Porfirjeva, N. A. 1993. Preprint of papers given at the Seventh International Symposium on the Turbellaria, Åbo, Finland, June 17-22, 1993. *Occ. Publ., Biol. Lab. Fuji Women's College, Sapporo (Hokkaidô)*, Japan, (25): 1-20.
- Kawakatsu, M., Okochi, I., Sato, H., Ohbayashi, T., Kitagawa, K. & Totani, K. 1999. A preliminary report on land planarians (Turbellaria, Seriata, Tricladida, Terricola) and land nemertine (Enopla, Hoplonemertea, Monostylifera) from the Ogasawara Islands. *Occ. Publ., Biol. Lab. Fuji Women's College, Sapporo (Hokkaidô)*, Japan, (32): 1-8.
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attached to his 1922 papers on Japanese marine, freshwater and land planarians (Platyhelminthes, "Turbellaria", Tricladida), with a taxonomic commentary. Web article only. <http://planarian.net/kswp/36/kaburaki.pdf>

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- Lue, K.-Y. & Kawakatsu, M. 1986. History of the study of Turbellaria in China. Part. 1: Ages of Materia Medica and of early expeditions by westerners. Hydrobiologia, 132: 317-322.
- Mack-Firá, V. & Kawakatsu, M. 1972. The fauna of the lava caves around Mt. Fujisan. XII. Proseriata et Tricladida (Turbellaria). Bull. Nat. Sci. Mus. Tokyo, 15: 637-647 + pls. 1-2.
- Makino, N. & Shirasawa, Y. 1983. Morphological and ecological comparison with two new species of elongated-slender land planarians have several stripes and their new scientific names. [A comparative study on the morphology and ecology of *Bipalium nobile* and another land planarian species with several stripes, with reference to a new scientific name of the latter]. Bull. Tokyo Med. College, (9): 69-83. (In Japanese, with English summary.)
- Murayama, H. & Kawakatsu, M. 1999. New distribution records of *Bipalium nobile* in Niigata Prefecture, Honshu, Japan (Turbellaria, Tricladida, Seriata, Terricola). Shibukitsubo, (20): 39-42. (In Japanese, with English summary.) See Sasaki, Murayama & Kawakatsu (2001).
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<http://www.ct.sakura.ne.jp/~gen-yu/lp/shibukitsubo/lp.html>
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