



THE CATALOGUE OF THE JAPANESE TIPULIDAE, WITH THE KEYS TO THE GENERA AND SUBGENERA (Diptera) (IV) : LIMONIINAE, TRIBE PEDICIINI

Ishida, Hiroshi

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THE CATALOGUE OF THE JAPANESE TIPULIDAE, WITH THE KEYS TO THE GENERA AND SUBGENERA (Diptera)

IV. LIMONIINAE, TRIBE PEDICIINI

Hiroshi ISHIDA

The three preceding parts under this general title were published in the *KENKYU SHUOKU* (*Annual Reports of the Hyogo Agricultural College*), No. 4 (1954), pp. 106-135, 1955; No. 5 (1955), pp. 59-77, 1956, and No. 6 (1956), pp. 122-149, 1957. At this time the author gives a catalogue and keys of the tribe Pediciini of the subfamily Limoniinae, but the remaining tribes will be published in the following issue of this journal.

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encouragement.

The abbreviations used in this part are the same
with those of Part III (See, p. 122).

Tribe PEDICIINI

1933 *Pediciini* Alex., PJS, 50: 145.

1942 *Pediciini* Alex., Bull. Conn. geol. nat. Hist.
Surv., 64: 342-3.

Key to Genera

1. Wings with membrane covered with abundant
macrotrichia *Ula*
Wings with cells glabrous 2
2. Eyes glabrous *Nipponomyia*
Eyes hairy 3
3. Antennae 12-segmented, supernumerary cross-
veins in cells R_3 , R_4 , M_1 , and M
..... *Heterangaeus*
Antennae 13-segmented or more 4
4. Size large (wing, ♂, usually over 7 mm.; in
most cases much larger); antennae with 14
or 16 segments; wings with usually patterned
with darker, either as a costal shading or
else spotted and marbled; no supernumerary
crossvein in cell R_1 *Pedicia*
Size smaller (wing, ♂, under 7 mm.; where
larger, with a supernumerary crossvein in
cell R_1); antennae with either 13 or 15
segments; wings immaculate, except for
the stigmal darkening *Dicranota*

Genus PEDICIA LATREILLE, 1809

- 1809 *Pedicia* Latr., Hist. Nat. Crust. et Ins., 4: 255,
type: *Tipula rivosus* L.
1916 *Daimiotipula* Mats., Thous. Ins. Jap., Add. 2:
463-4, type: *Daimiotipula daimio* Mats.
1934 *Pedicia* Kariya, PJS, 53: 302-4 (Key to Japanese
spp.).

Key to Subgenera

1. Size very large (wing, 20 mm. or more); wings
with a dark pattern that is arranged as a
triangle, including broad costal and cubital
seams that are connected across the very
oblique cord; maxillary palpi with terminal
segment elongate *Pedicia*, s. str.
Size smaller (wing, under 18 mm., usually
under 15 mm.); wings never with a dark
pattern distributed as above described; cord
transverse or nearly so; maxillary palpi
with terminal segment short 2
2. Wings with a supernumerary crossvein in cell
 M *Nasiternella*
No supernumerary crossvein in cell M of
wings *Tricyphona*

Subgenus PEDICIA, s. str.

Pedicia (*Pedicia*) *brachycera* ALEXANDER, 1933

1933 *P. brachycera* Alex., PJS, 50: 145-6, pl. 1, f.
12 (w); pl. 3, f. 40 (♀ ant), type: Shirouma-
dake, Japanese Alps.

Distribution: JAPAN (Honshu).

Pedicia (*Pedicia*) *cubitalis* ALEXANDER, 1933

1933 *P. (Tricyphona) cubitalis* Alex., PJS, 51: 396-
8, pl. 1, f. 16 (w), type: Mt. Kurobégoro,
Echiu.

Distribution: JAPAN (Honshu).

Pedicia (*Pedicia*) *daimio* (MATSUMURA, 1916)

1916 *Daimiotipula daimio* Mats., Thous. Ins. Jap.,
Add. 2: 462-3, pl. 25, f. 5 (whole ♀), type:
Sapporo.

1924 *P. daimio* Alex., PJS, 24:568-9 (♂ description).
 1933 *P. daimio* Alex., PJS, 50:146, pl. 3, f. 39 (♀ ant).

1934 *P. daimio* Kariya, PJS, 53:303.

1950 *P. daimio* Esaki, Icon. Ins. Jap., ed. 2:1520, f. 4359.

Distribution: JAPAN (Hokkaido).

***Pedicia (Pedicia) gaudens* (ALEXANDER, 1924)**

1924 *Tricyphona gaudens* Alex., AESA, 17:440-1, type: Kyoto.

1953 *P. (P.) gaudens* Alex., PJS, 82:58.

Distribution: JAPAN (Honshu).

***Pedicia (Pedicia) gifuensis* KARIYA, 1934**

subsp. *gifuensis* KARIYA, 1934

1934 *P. gifuensis* Kariya, PJS, 53:304, 305-6, pl. 1, f. 2 (w); f. 6 (hyp); f. 7 (♀ ant); f. 8 (ovip), type: Mt. Kinkwa, Gifu; Pref. Iwate.

1936 *Daimiotipula daimio* Horie, Kansai Konchû Zasshi, 4:47, f. (nec Mats., 1916).

1940 *P. daimia* (sic) Saito, Ent. World, 8:384 (nec Mats., 1916).

1950 *P. gifuensis* Tokunaga, Icon. Ins. Jap., ed. 2:1520, f. 4360.

Distribution: JAPAN (Hokkaido; Honshu; Kyushu).

subsp. *sawadai* KARIYA, 1934

1934 *P. gifuensis sawadai* Kariya, PJS, 53:306-7, pl. 1, f. 3 (w), type: Cora, Hakone.

Distribution: JAPAN (Honshu).

***Pedicia (Pedicia) grandior* (ALEXANDER, 1923)**

1923 *Tricyphona grandior* Alex., AESA, 16:69-70, type: Mt. Hakuba, Shinano.

1950 *Tricyphona grandior* Esaki, Icon. Ins. Jap., ed. 2:1520, f. 4361.

1953 *P. (P.) grandior* Alex., PJS, 82:58-9, pl. 2, f. 15 (hyp).

Distribution: JAPAN (Honshu; Kyushu).

***Pedicia (Pedicia) issikiella* ALEXANDER, 1953**

1953 *P. (P.) issikiella* Alex., PJS, 82:57-9, pl. 2, f. 14 (hyp), type: Mt. Tsurugi, Minokosi to Nagoro, Awa; Mt. Ishizuchi, Iyo; Mt. Saragamine, Iyo.

Distribution: JAPAN (Shikoku).

***Pedicia (Pedicia) nawai* KARIYA, 1934**

1934 *P. nawai* Kariya, PJS, 53:304-5, pl. 1, f. 1 (w); f. 5 (hyp), type: Mt. Ontake, Hida.

Distribution: JAPAN (Honshu).

***Pedicia (Pedicia) subtransversa* ALEXANDER, 1933**

1933 *P. subtransversa* Alex., PJS, 50:146-7, pl. 1, f. 13 (w); pl. 3, f. 41 (hyp), type: Shirouma-

dake, Japanese Alps.

Distribution: JAPAN (Honshu); N. KOREA.

Subgenus TRICYPHONA ZETTERSTEDT, 1838

1838 *Tricyphona* Zett., Ins. Lapponica, Dipt., 851, type: *Limonia immaculata* Mg.

1856 *Amalopsis* Haliday, in Walker's Ins. Brittanica, Dipt., 3, Add., p. xv, type: *Limnobia occulta* Mg.

1856 *Bophrosia* Rondani, Predr., 1:183, type: *Limnobia immaculata* Mg.

1860 *Crunobia* Kolenati, Wien. ent. Monatschr., 4:391, type: *Crunobia schineri* Kol.

1936 *Olecranopelma* Enderlein, Tierwelt Mitteleur., 6, iii Teil, 2 Lief., XVI:23, type: *Limonia transversa* Mg.

***Pedicia (Tricyphona) confluens* (ALEXANDER, 1922)**

1922 *T. confluens* Alex., IIM, 10:186-7, type: Gifu.

Distribution: JAPAN (Honshu).

***Pedicia (Tricyphona) fimbriatula* ALEXANDER, 1953**

1953 *P. (T.) fimbriatula* Alex., PJS, 82:59-61, pl. 2, f. 13 (hyp); f. 16 (w), type: Mt. Tsurugi, Minokosi to Nagoro, Awa.

Distribution: JAPAN (Shikoku).

***Pedicia (Tricyphona) insulana* (ALEXANDER, 1913)**

1913 *T. insulana* Alex., Can. Ent., 45:317, 319-20, pl. 4, f. 3 (w), type: Tokyo.

Distribution: JAPAN (Honshu; Shikoku; Kyushu).

***Pedicia (Tricyphona) kirishimensis* (ALEXANDER, 1928)**

1928 *T. kirishimensis* Alex., PJS, 35:474-5, pl. 1, f. 6 (w), type: Mt. Kirishima.

Distribution: JAPAN (Shikoku; Kyushu).

***Pedicia (Tricyphona) optabilis* (ALEXANDER, 1924)**

1924 *T. optabilis* Alex., AESA, 17:70-1, type: Otaki, Chichibu, Saitama.

1954 *P. (T.) optabilis* Alex., PJS, 82:290, pl. 4, f. 32 (w).

Distribution: JAPAN (Hokkaido; Honshu; Shikoku; Kyushu).

***Pedicia (Tricyphona) pectinata* (ALEXANDER, 1931)**

1931 *T. pectinata* Alex., PJS, 44:354, pl. 1, f. 10 (w), type: Norikuradake, Japanese Alps, Shinano.

Distribution: JAPAN (Honshu; Shikoku).

***Pedicia (Tricyphona) seticauda* (ALEXANDER, 1925)**

1925 *T. seticauda* Alex., AM, (9)15:77-8, type:

Lake Ozenuma, on boundary between Iwashiro and Kotsuke.

Distribution: **JAPAN** (Hokkaido; Honshu; Shikoku; Kyushu).

Pedicia (Tricyphona) setipennis (ALEXANDER, 1931)

1931 *T. setipennis* Alex., PJS, 44:355, pl. 1, f. 11 (w), type: Norikuradake, Japanese Alps, Shinano.

Distribution: **JAPAN** (Honshu).

Pedicia (Tricyphona) tenuiloba ALEXANDER, 1957

1957 *P. (T.) tenuiloba* Alex., PJS, 85:354, 356-7, pl. 1, f. 2 (hyp), type: Kurokawa, Echigo.

Distribution: **JAPAN** (Honshu).

Pedicia (Tricyphona) vetusta (ALEXANDER, 1913)

1913 *T. vetusta* Alex., Can. Ent., 45:318, 320-1, pl. 3, f. 5 (w), type: Tokyo.

Distribution: **JAPAN** (Hokkaido; Honshu; Shikoku).

Pedicia (Tricyphona) yakushimana (ALEXANDER, 1930)

1930 *T. yakushimana* Alex., PJS, 42:67-8, pl. 1, f. 5 (w); pl. 2, f. 27 (hyp), type: Kosugidani, Yakushima.

1954 *P. (T.) yakushimana* Alex., PJS, 85:290.

Distribution: **JAPAN** (Shikoku; Kyushu).

Subgenus **NASITERNELLA** WAHLGREN, 1904

1881 *Nasiterna* Wallengren, Ent. Tidskr., 2:179, type: *Limnobia variinervis* Zett., preocc. by *Nasiterna* Wagler, 1832.

1904 *Nasiternella* Wahlgren, Ark. Zool., 2, no. 7:4, type: *Limnobia variinervis* Zett.

1949 *Pedicia (Nasiternella)* Alex., Ark. Zool., 42A, no. 2:12.

Pedicia (Nasiternella) variinervis (ZETTERSTEDT, 1851)

1851 *Limnobia variinervis* Zett., Dipt. Scandinaviae, 10:3813.

1869 *Amalopsis variinervis* O. S., Mon. Dipt. N. Amer., 4:264.

1881 *Nasiterna variinervis* Wallengren, Ent. Tidskr., 2:191.

1934 *P. (N.) variinervis* Alex., PJS, 53:279.

Distribution: **EUROPE**.

subsp. **hokkaidensis** ALEXANDER, 1934

1934 *P. (N.) hokkaidensis* Alex., PJS, 53:278-9, pl. 1, f. 7 (w); pl. 2, f. 29 (hyp), type: Sōunkyō.

1949 *P. (N.) variinervis hokkaidensis* Alex., Ark. Zool., 42A, no. 2:12.

Distribution: **JAPAN** (Hokkaido; Shikoku); **N. KOREA**.

Genus **NIPPONOMYIA** ALEXANDER, 1924

1924 *Nipponomyia* Alex., IIM, 12:158-9, type: *Tricyphona kuwanai* Alex.

1935 *Nipponomyia* Alex., PJS, 56:551-2 (Key to spp.).

Nipponomyia kuwanai (ALEXANDER, 1913)

1913 *Tricyphona kuwanai* Alex., Can. Ent., 45:318-9, pl. 3, f. 6 (w), type: Tokyo.

1920 *Tricyphona kuwanai* Alex., TAES, 46:14-5 (♂ description).

1924 *N. kuwanai* Alex., IIM, 12:159.

1935 *N. kuwanai* Alex., PJS, 56:552.

1950 *N. kuwanai* Esaki, Icon. Ins. Jap., ed. 2:1521, f. 4363.

Distribution: **JAPAN** (Honshu).

Nipponomyia trispinosa (ALEXANDER, 1920)

1918 *Genus incertus* (Hexatomini), Brunetti, Rec. Ind. Mus., 15:328.

1920 *Tricyphona trispinosa* Alex., TAES, 46:15, type: possibly Kioto.

1924 *N. trispinosa* Alex., IIM, 12:159.

1935 *N. trispinosa* Alex., PJS, 56:552.

1950 *N. trispinosa* Esaki, Icon. Ins. Jap., ed. 2:1521, f. 4362.

Distribution: **JAPAN** (Honshu; Shikoku).

Genus **HETERANGAEUS** ALEXANDER, 1925

1925 *Heterangaeus* Alex., AM, (9)15:78-9, type: *Polyangaeus gloriosus* Alex.

Heterangaeus esakii ALEXANDER, 1925

1925 *H. esakii* Alex., AM, (9)15:79-80, type: Lake Ozenuma, on boundary between Iwashiro and Kotsuke.

Distribution: **JAPAN** (Honshu).

Heterangaeus gloriosus (ALEXANDER, 1924)

1924 *Polyangaeus gloriosus* Alex., PJS, 24:569-71, type: Shimizu, Saghalien.

1925 *H. gloriosus* Alex., AM, (9) 15:79.

1938 *H. gloriosus*, var. Alex., PJS, 67:151.

Distribution: **SAGHALIEN**; **N. KOREA**.

subsp. **kusunokii** ALEXANDER, 1954

1954 *H. gloriosus kusunokii* Alex., PJS, 82:290-1, pl. 4, f. 31 (w), type: Yuyama, near Matsuyama, Iyo.

Distribution: **JAPAN** (Shikoku).

Heterangaeus japonicus (ALEXANDER, 1919)subsp. **japonicus** (ALEXANDER, 1919)1919 *Polyangaeus japonicus* Alex., AESA, 18:342, type: Saitama.1925 *H. japonicus* Alex., AM, (9) 15:79.Distribution: **JAPAN** (Honshu; Shikoku; Kyushu).subsp. **crenatus** ALEXANDER, 19331933 *H. japonicus crenatus* Alex., PJS, 51:541, type: Mt. Ohdai, Nara.Distribution: **JAPAN** (Honshu).**Heterangaeus laticincta** ALEXANDER, 19311931 *H. laticincta* Alex., PJS, 44:355-7, pl. 1, f. 12 (w), type: Hirayu, Japanese Alps, Shinano; Norikuradake, Japanese Alps, Shinano.Distribution: **JAPAN** (Honshu).**Heterangaeus pallidellus** ALEXANDER, 19331933 *H. pallidellus* Alex., PJS, 51:540-1, pl. 1, f. 21 (w), type: Mt. Kurobegoro, Echū.Distribution: **JAPAN** (Honshu).**Heterangaeus spectabilis** ALEXANDER, 19251925 *H. spectabilis* Alex., AM, (9) 15:80-1, type: Hinoemata, Iwashiro.Distribution: **JAPAN** (Honshu).Genus **DICRANOTA** ZETTERSTEDT, 18381838 *Dicranota* Zett., Ins. Lapponica, Dipt., 851, type: *Dicranota guerini* Zett.1949 *Dicranota* Alex., Ark. Zool., 42A, no. 2:17-8 (Key to subgenera).

Key to Subgenera

1. Wings with supernumerary crossveins in certain of the cell2
No supernumerary crossveins in any cells of wing**Rhaphidolabis**
2. A supernumerary crossvein in cell R_1 , no other crossveins present3
No supernumerary crossvein in cell R_1 ; at least one such vein in cell R_2 ...**Dicranotella**
3. Cell $1st\ M_2$ closed **Eudicranota**
Cell $1st\ M_2$ open **Dicranota**, s. str.

Subgenus **DICRANOTA**, s. str.**Dicranota (Dicranota) nipponalpina** ALEXANDER, 19331933 *D. (D.) nipponalpina* Alex., PJS, 50:147-8, pl. 1, f. 14 (w); pl. 3, f. 42 (hyp), type: Shiroumadake, Japanese Alps.Distribution: **JAPAN** (Honshu).**Dicranota (Dicranota) nipponica** ALEXANDER, 19191919 *D. nipponica* Alex., AESA, 12:344, type: Meguro, Tokio.Distribution: **JAPAN** (Honshu).**Dicranota (Dicranota) sicaria** ALEXANDER, 19471947 *D. (D.) sicaria* Alex., AESA, 40:354, type: Hamasaka, Hyogo.Distribution: **JAPAN** (Honshu).**Dicranota (Dicranota) yezoensis** ALEXANDER, 1924subsp. **yezoensis** ALEXANDER, 19241924 *D. yezoensis* Alex., PJS, 24:571, type: Lake of Akan.Distribution: **JAPAN** (Hokkaido).Subgenus **DICRANOTELLA** ALEXANDER, 19491949 *Dicranota (Dicranotella)* Alex., Ark. Zool., 42A, no. 2:18, type: *Rhaphidolabina sibirica* Alex. (not *siberica*).**Dicranota (Dicranotella) nebulipennis** ALEXANDER, 19361936 *D. (Amalopina) nebulipennis* Alex., PJS, 60:183-4, pl. 1, f. 10 (w); pl. 2, f. 30 (hyp), type: Iwate-gun, Iwate.1949 *D. (D.) nebulipennis* Alex., Ark. Zool., 42A, no. 2:18.Distribution: **JAPAN** (Honshu).Subgenus **EUDICRANOTA** ALEXANDER, 19341934 *Dicranota (Eudicranota)* Alex., in Curran, Keys to the Families and Genera of North American Diptera, p. 40, type: *Dicranota notabilis* Alex.1949 *Dicranota (Eudicranota)* Alex., Ark. Zool., 42A, no. 2:17-8.**Dicranota (Eudicranota) dicranotoides** (ALEXANDER, 1924)1924 *Rhaphidolabina dicranotoides* Alex., AESA, 17:72-3, type: Mt. Takao, Musashi.1935 *D. (Amalopina) dicranotoides* Alex., PJS, 56:358 (Key to Japanese spp. of *Amalopina*).1949 *D. (E.) dicranotoides* Alex., Ark. Zool., 42A, no. 2:18.Distribution: **JAPAN** (Honshu; Shikoku).Subgenus **RHAPHIDOLABIS** OSTEN SACKEN, 18691869 *Rhaphidolabis* O. S., Mon. Dipt. N. Amer., 4:284-7, type: *Rhaphidolabis tenuipes* O. S.1949 *Dicranota (Rhaphidolabis)* Alex., Ark. Zool., 42A, no. 2:18.**Dicranota (Rhaphidolabis) angulata** ALEXANDER, 1936

1936

- 1936 *D. (R.) angulata* Alex., PJS, 60:182-3, pl. 1, f. 9 (w), type: Iwate-gun, Iwate.
Distribution: **JAPAN** (Honshu).
- Dicranota (Rhaphidolabis) clausa** ALEXANDER, 1938
1938 *D. (R.) clausa* Alex., PJS, 66:115-7, pl. 1, f. 13 (w); pl. 3, f. 38 (hyp), type: Matsuo, Iwate.
1953 *D. (R.) clausa* Alex., PJS, 82:61-2, pl. 2, f. 17 (w).
Distribution: **JAPAN** (Honshu; Shikoku).
- Dicranota (Rhaphidolabis) consors** (ALEXANDER, 1923)
1923 *R. consors* Alex., AESA, 16:68-9, type: Tamagawa, Saitama.
1954 *D. (R.) consors* Alex., PJS, 82:291, pl. 4, f. 37 (hyp).
Distribution: **JAPAN** (Honshu; Shikoku; Kyushu).
- Dicranota (Rhaphidolabis) flavibasis** (ALEXANDER, 1919)
subsp. *flavibasis* (ALEXANDER, 1919)
1919 *R. flavibasis* Alex., AESA, 12:343, type: Meguro, Tokio.
Distribution: **JAPAN** (Honshu); **SAGHALIEN**.
- Dicranota (Rhaphidolabis) gibbera** (ALEXANDER, 1921)
subsp. *gibbera* (ALEXANDER, 1921)
1921 *Rhaphidolabina gibbera* Alex., AESA, 14:121, type: Gifu.
1924 *Rhaphidolabina gibbera* Alex., PJS, 24:569.
1930 *D. (Amalopina) gibbera* Alex., PJS, 42:520, pl. 1, f. 12 (w).
1930 *D. (Amalopina) gibbera*, var. Alex., PJS, 43:508.
1935 *D. (Amalopina) gibbera gibbera* Alex., PJS, 56:358 (Key to Japanese spp. of *Amalopina*).
1938 *D. (Amalopina) gibbera gibbera* Alex., PJS, 66:322 (Key to spp. of *elegantula* group).
1949 *D. (R.) gibbera* Alex., Ark. Zool., 42A, no. 2:18.
1950 *Amalopina gibbera* Esaki, Icon. Ins. Jap., ed. 2:1521, f. 4364.
Distribution: **JAPAN** (Hokkaido; Honshu; Shikoku; Kyushu); **SAGHALIEN**; **FORMOSA**.
- Dicranota (Rhaphidolabis) idiopyga** ALEXANDER, 1953
1953 *D. (R.) idiopyga* Alex., PJS, 82:62-3, pl. 2, f. 12 (hyp), type: Mt. Tsurugi, Kawati to Minokosi & Minokosi to Nagoro, Awa.
Distribution: **JAPAN** (Shikoku).
- Dicranota (Rhaphidolabis) macracantha** ALEXANDER, 1947
1947 *D. (R.) macracantha* Alex., AESA, 40:354-5, type: Kamikochi, Shinano.
Distribution: **JAPAN** (Honshu).
- Dicranota (Rhaphidolabis) ontakensis** ALEXANDER, 1947
1947 *D. (R.) ontakensis* Alex., AESA, 40:355-6, type: Ontake, Hida.
Distribution: **JAPAN** (Honshu).
- Dicranota (Rhaphidolabis) paraconsors** ALEXANDER, 1955
1955 *D. (R.) paraconsors* Alex., AESA, 48:372, type: Yatsugatake, Shinano.
1957 *D. (R.) paraconsors* Alex., PJS, 85:357, pl. 1, f. 1 (w); f. 6 (hyp).
Distribution: **JAPAN** (Honshu).
- Dicranota (Rhaphidolabis) persessilis** ALEXANDER, 1954
1954 *D. (R.) persessilis* Alex., PJS, 82:292-3, pl. 4, f. 33 (w), type: Mt. Saragamine, Iyo.
Distribution: **JAPAN** (Shikoku).
- Dicranota (Rhaphidolabis) platymera** ALEXANDER, 1934
1934 *D. (R.) platymera* Alex., PJS, 53:279-80, pl. 1, f. 8 (w); pl. 2, f. 30 (hyp), type: Yumoto, Shimotsuke.
Distribution: **JAPAN** (Honshu).
- Dicranota (Rhaphidolabis) polymera** ALEXANDER, 1933
1933 *D. (R.) polymera* Alex., PJS, 51:537-8, pl. 1, f. 18 (w); pl. 3, f. 39 (hyp), type: Waka-sugiyama, Chikuzen.
1954 *D. (R.) polymera* Alex., PJS, 82:292 (♀ description).
Distribution: **JAPAN** (Shikoku; Kyushu).
- Dicranota (Rhaphidolabis) profunda** ALEXANDER, 1950*
1950 *D. (Dicranota) profunda* Alex., AESA, 42:425-6, type: Funakoshi, Iwate.
Distribution: **JAPAN** (Honshu).
- Dicranota (Rhaphidolabis) spina** ALEXANDER, 1933
1933 *D. (R.) spina* Alex., PJS, 51:398-9, pl. 1, f. 17 (w); pl. 4, f. 48 (hyp), type: Mt. Kurobe-goro, Echii.
Distribution: **JAPAN** (Hokkaido; Honshu).

*Reference to *Rhaphidolabis* is according to Prof. Dr. ALEXANDER, who kindly advised for my unpublished check list of Japanese Tipulidae.

Dicranota (Rhaphidolabis) subconsors (ALEXANDER, 1924)

1924 *R. subconsors* Alex., PJS, 24:571-2, type: Lake Shikotsu.

Distribution: **JAPAN** (Hokkaido).

Dicranota (Rhaphidolabis) tuberculata ALEXANDER, 1936

1936 *D. (R.) tuberculata* Alex., PJS, 59:241-2, pl. 1, f. 13 (w), type: Kibune, Kyoto.

Distribution: **JAPAN** (Honshu).

Genus **ULA** HALIDAY, 1833

1833 *Ula* Haliday, Ent. Mag., 1:153, type: *Limnobia macroptera* Macq. (as *mollissima*, sp. nov.).

1864 *Macroptera* Lioy, Atti Inst. Veneto, (3) 9:224, type: *Limnobia macroptera* Macq.

1954 *Ula* Tokunaga, Ishida et Nobuchi, Sci. Rep. Saikyo Univ., Agric., 6:1-10, 19 figs. (Key to Japanese spp.).

Subgenus **ULA**, s. str.

Ula (Ula) cincta ALEXANDER, 1924

1924 *U. cincta* Alex., PJS, 24:573, type: Akan; Teppetsu.

1954 *U. cincta* Nobuchi, Sci. Rep. Saikyo Univ., Agric., 6:2, 3, 4-5, f. 1 (♂ w); f. 5(hyp); f. 8-13 (larva); f. 18-19 (pupa).

Distribution: **JAPAN** (Hokkaido; Honshu; Shikoku).

Ula (Ula) fungicola NOBUCHI, 1954

1954 *U. fungicola* Nobuchi, Sci. Rep. Saikyo Univ., Agric., 6:2, 3, 5-6, f. 2 (♂ w); f. 6 (hyp), type: Takayama, Gifu.

Distribution: **JAPAN** (Honshu).

Ula (Ula) kiushiuensis ALEXANDER, 1933

1933 *U. kiushiuensis* Alex., PJS, 51:541-2, pl. 1, f. 22 (w); pl. 3, f. 40 (hyp), type: Sobosan, Bungo.

1954 *U. kiushiuensis* Nobuchi, Sci. Rep. Saikyo Univ., Agric., 6:3.

Distribution: **JAPAN** (Kyushu).

Ula (Ula) longicellata ISHIDA, 1954

1954 *U. longicellata* Ishida, Sci. Rep. Saikyo Univ., Agric., 6:3-4, 7-8, f. 4 (♀ w), type: Kurami, north of Mimasaka-Kamo, Tomada-gun, Okayama.

Distribution: **JAPAN** (Honshu).

Ula (Ula) perelegans ALEXANDER, 1924

1924 *U. perelegans* Alex., PJS, 24:572-3, type: Abashiri.

1954 *U. perelegans* Nobuchi, Sci. Rep. Saikyo Univ., Agric., 6:2, 3, 4.

Distribution: **JAPAN** (Hokkaido).

Ula (Ula) shiitakea NOBUCHI, 1954

1954 *U. shiitakea* Nobuchi, Sci. Rep. Saikyo Univ., Agric., 6:3, 4, 6-7, f. 3 (♂ w); f. 7 (hyp); f. 14-17 (larva), type: Kibune, Kyoto.

Distribution: **JAPAN** (Honshu).

Ula (Ula) succincta ALEXANDER, 1933

1933 *U. succincta* Alex., PJS, 51:400, pl. 1, f. 19 (w); pl. 4, f. 49 (hyp), type: Mt. Mitake, Musashi.

1954 *U. succincta* Nobuchi, Sci. Rep. Saikyo Univ., Agric., 6:3, 4.

Distribution: **JAPAN** (Honshu).

(To be continued)

(Entomological Laboratory of Kakogawa Branch,
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