

Checklist of Aphrophoridae (Homoptera: Cercopoidea) from Taiwan

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ABSTRACT

The family Aphrophoridae consists of over 900 species in the world. Seventy-three species have been recorded from Taiwan, with 50 species (68.5%) considered endemic. The checklist revises the data of geographical distribution, and provides information on type deposition and type localities.

Key words: Homoptera, Cercopoidea, Aphrophoridae, Taiwan, checklist.

Introduction

The family Aphrophoridae was erected by Amyot and Serville in 1843 based on the type genus *Aphrophora* Germar 1821 (Amyot and Serville, 1843). Aphrophoridae contains 2 subfamilies, 8 tribes, and over 900 species in the world at present, of which 62.2% of the species are from the Palearctic and Oriental Regions.

Seventy-eight species of Aphrophoridae were recorded as occurring in Taiwan before 1943 (Metcalf, 1962), among which, 40 species and 9 monotypical genera were published by Matsumura (1903, 1907, 1934, 1938, 1940, 1942a, b), i.e., *Awaphora*, *Macrofukia*, *Mimoptyelus*, *Toroptyelus*, *Jembroides*, *Megagukia*, *Jembrophora*, *Nokophora* and *Kotophora*. Matsumura's monotypical genera, *Awaphora*, *Macrofukia*, *Mimo-*

ptyelus, *Toroptyelus*, and *Jembroides*, were synonymized with related genera or reinstated to the original ones by Liang (1998, 1999).

After a literature review, the checklist contains 1 subfamily, 6 tribes, 17 genera, and 73 Taiwanese aphrophorid species. Fifty of the species in the present checklist are endemic to Taiwan. In this paper, we have tried to organize the information to make it much more complete and clear to facilitate future studies of this group.

Materials and Methods

The type depositions are listed below. The abbreviation of each museum collection was checked by the authors from the Website of the Bishop Museum, <http://www.bishopmuseum.org/research/natsci/ento/codens-inst.html>.

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BMNH – The Natural History Museum, London, UK [formerly the British Museum (Natural History)].

DEI – Deutschen Entomologischen Instituten, Eberswalde, Germany.

EIHU – Laboratory of Systematic Entomology, Faculty of Agriculture, Hokkaido University, Sapporo, Japan.

ICRI – Research Institute of Entomology, Zhongshan (Sun Yat-Sen) University, Guangzhou, Guangdong, China.

NCSU – National Carolina State University Insect Collection, Raleigh, NC, USA.

SMTD – Staatliches Museum für Tierkunde, Dresden, Germany.

USNM – National Museum of Natural History, Washington, D.C, USA [formerly the United States National Museum].

The distribution records, synonymes of genus and species are extracted mainly from the original publications of Chou and Liang (1987), Chou et al. (1992), Distant (1908), Jacobi (1904, 1921), Kato (1933a, b), Komatsu (1997), Kwon and Lee (1979), Lee et al. (1976), Liang (1992, 1997, 1999, 2000, 2001), Matsumura (1903, 1907, 1934, 1938, 1940, 1942a, b), Melichar (1903), Metcalf (1962), Metcalf and Horton (1934), Nast (1972), Ossiannilsson (1981), Schmidt (1920), Schumacher (1915a, b), Shih et al. (2000), Shih and Yang (2002), and Walker (1851, 1858). Metcalf (1962), probably based on the articles of Kato (1933a, b), listed Japan and Taiwan as the distributional area of 18 Taiwanese Aphrophoridae species. However, Kato (1933a, b) only listed Taiwan as the distributional area of Taiwanese Aphrophoridae. We, therefore, emended these 18 species as endemic to Taiwan in this checklist, and mark each species name with an asterisk * in the text.

The taxonomic system of this study is based mainly on that of Metcalf (1962). Information of type species for each genus

was cited by authors from Amyot and Serville (1843), Distant (1908), Matsumura (1940, 1942a), Metcalf (1962), Metcalf and Horton (1934), and Stål (1863, 1866). The checklist of all scientific names is arranged in alphabetical sequence by specific epithet. New distributional data are recorded from the TARI (Taiwan Agricultural Research Institute) collection and are indicated in boldface.

Family APHROPHORIDAE Amyot and Serville, 1843 尖胸沫蟬科

Subfamily APHROPHORINAE Licent, 1912 尖胸沫蟬亞科

Aphrophorinae Licent, 1912, Thèses présentées à la Faculté des Sciences de Nancy pour obtenir le grade de docteur es-sciences naturelles 1912: 134.

Tribe APHROPHORINI Lallemand, 1924 尖胸沫蟬族

Aphrophorini Lallemand, 1924, Paris Mus. d'Hist. Nat. Bull. 1924: 296. (Metcalf, 1962)

Genus *Aphrophora* Germar, 1821 尖胸沫蟬屬

Aphrophora Germar, 1821, Mag. Entomol. 3: 48.

Awaphora Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 59 (Type species: *Awaphora kikuchii* Matsumura, 1940) [synonymised by Liang, 1998: 241].

Macrofukia Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 58 (Type species: *Macrofukia habonis* Matsumura, 1940) [synonymised by Liang, 1998: 241].

Miphora Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 61 (Type species: *Miphora arisanella* Matsumura, 1940) [synonymised by Liang, 1998: 241].

- Nagafukia* Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 57 (Type species: *Nagafukia mushana* Matsumura, 1940) [synonymised by Liang, 1998: 241].
- Todophora* Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 56 (Type species: *Aphrophora abieti* Matsumura, 1904) [synonymised by Komatsu, 1997: 82].
- Yezophora* Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 61 (Type species: *Yezophora kurilensis* Matsumura, 1940) [synonymised by Kwon and Lee, 1979: 15; synonymy confirmed by Liang, 1998: 241].
- Atuphora* Matsumura, 1942a, Ins. Matsumurana 16: 48 (Type species: *Aphrophora stictica* Matsumura, 1903) [synonymised by Nast, 1972: 168; synonymy confirmed by Liang, 1998: 241].
- Boniphora* Matsumura, 1942a, Ins. Matsumurana 16: 48 (Type species: *Aphrophora bicolor* Matsumura, 1907) [synonymised by Liang, 1998: 241].
- Dophora* Matsumura, 1942a, Ins. Matsumurana 16: 49 (Type species: *Aphrophora vitis* Matsumura, 1904) [synonymised by Komatsu, 1997: 82].
- Europhora* Matsumura, 1942a, Ins. Matsumurana 16: 51 (Type species: *Aphrophora alpina* Melichar, 1900) [synonymised by Nast, 1972: 168; synonymy confirmed by Liang, 1998: 241].
- Formophora* Matsumura, 1942a, Ins. Matsumurana 16: 52 (Type species: *Aphrophora arisana* Matsumura, 1940) [synonymised by Liang, 1998: 241].
- Hosophora* Matsumura, 1942a, Ins. Matsumurana 16: 53 (Type species: *Hosophora nomurella* Matsumura, 1942) [synonymised by Liang, 1998: 241-242].
- Jophora* Matsumura, 1942a, Ins. Matsumurana 16: 58 (Type species: *Aphrophora compacta* Matsumura, 1904) [synonymised by Komatsu, 1997: 82].
- Nagophora* Matsumura, 1942a, Ins. Matsumurana 16: 62 (Type species: *Nagophora hirayamai* Matsumura, 1942) [synonymised by Liang, 1998: 241].
- Obiphora* Matsumura, 1942a, Ins. Matsumurana 16: 62 (Type species: *Aphrophora intermedia* Uhler, 1896) [synonymised by Nast, 1972: 168; synonymy confirmed by Liang, 1998: 242].
- Ogaphora* Matsumura, 1942a, Ins. Matsumurana 16: 65 (Type species: *Aphrophora bizonalis* Matsumura, 1907) [synonymised by Liang, 1998: 242].
- Omalophora* Matsumura, 1942a, Ins. Matsumurana 16: 66 (Type species: *Cicada spumaria salicis* De Geer, 1773) [synonymised by Nast, 1972: 168; synonymy confirmed by Liang, 1998: 242].
- Petaphora* Matsumura, 1942a, Ins. Matsumurana 16: 69 (Type species: *Aphrophora maritime* Matsumura, 1903) [synonymised by Kwon and Lee, 1979: 15; synonymy confirmed by Liang, 1998: 242].
- Sabphora* Matsumura, 1942a, Ins. Matsumurana 16: 72 (Type species: *Aphrophora takagii* Matsumura, 1940) [synonymised by Liang, 1998: 242].
- Sagophora* Matsumura, 1942a, Ins. Matsumurana 16: 74 (Type species: *Aphrophora tsuruana* Matsumura, 1907) [synonymised by Liang, 1998: 242].
- Seiphora* Matsumura, 1942a, Ins. Matsumurana 16: 76 (Type species: *Seiphora seitonis* Matsumura, 1942) [synonymised by Liang, 1998: 242].
- Takaphora* Matsumura, 1942a, Ins. Matsumurana 16: 84 (Type species: *Aphrophora brevis* Matsumura, 1904) [synonymised by Komatsu, 1997a: 82].
- Tamaphora* Matsumura, 1942a, Ins.

- Matsumurana 16: 85 (Type species: *Tamaphora domonsis* Matsumura, 1942) [synonymised by Liang, 1998: 242].
- Tilophora* Matsumura, 1942a, Ins. Matsumurana 16: 88 (Type species: *Aphrophora flavipes* Uhler, 1896) [synonymised by Nast, 1972: 168; synonymy confirmed by Liang, 1998: 242].
- Tobiphora* Matsumura, 1942a, Ins. Matsumurana 16: 88 (Type species: *Aphrophora rugosa* Matsumura, 1903) [synonymised by Kwon and Lee, 1979: 16].
- Tonkaephora* Matsumura, 1942a, Ins. Matsumurana 16: 89 (Type species: *Tonkaephora oshodenella* Matsumura, 1942) [synonymised by Liang, 1998: 243].
- Trigophora* Matsumura, 1942a, Ins. Matsumurana 16: 91 (Type species: *Cercopis alni* Fallén, 1805) [synonymised by China, 1951: 279].
- Tukaphora* Matsumura, 1942a, Ins. Matsumurana 16: 94 (Type species: *Tukaphora sinalca* Matsumura, 1942) [synonymised by Liang, 1998: 243].
- Yamaphora* Matsumura, 1942a, Ins. Matsumurana 16: 95 (Type species: *Yamaphora yatugadakeana* Matsumura, 1942) [synonymised by Komastu, 1997a: 82].
- Yaphora* Matsumura, 1942a, Ins. Matsumurana 16: 96 (Type species: *Aphrophora yatsugadakensis* Matsumura, 1934) [synonymised by Komastu, 1997a: 82].
- Type species:** *Aphrophora alni* (Fallén, 1805)
- 1. *Aphrophora arisana* Matsumura, 1940 雙黑點尖胸沫蟬**
Aphrophora arisana Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 63.
Formophora arisana (Matsumura, 1940); Matsumura, 1942a, Ins. Matsumurana 16: 52 [reinstated combination by Liang, 1998: 245].
Type deposition: EIHU (Komatsu and Hayashi, 1998).
Type locality: TAIWAN: Mt. Ari [Alishan], Chiayi Co. (Matsumura, 1940).
Distribution: Taiwan.
- 2. *Aphrophora arisanella* (Matsumura, 1940) 平額尖胸沫蟬**
Miphora arisanella Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 61.
Formophora karenkonis Matsumura, 1942a, Ins. Matsumurana 16: 52 [synonymised by Liang, 1998: 245].
Miphora shirakii Matsumura, 1942a, Ins. Matsumurana 16: 61 [synonymised by Liang, 1998: 245].
Aphrophora arisanella (Matsumura, 1940) [transferred by Liang, 1998: 245]
Type deposition: EIHU (Komatsu and Hayashi, 1998).
Type locality: TAIWAN: Mt. Ari [Alishan], Chiayi Co. (Matsumura, 1940).
Distribution: Taiwan.
- 3. *Aphrophora flavicosta* Kato, 1933 * 翅黃緣尖胸沫蟬**
Aphrophora flavicosta Kato, 1933b, Entomol. World 1: 230.
Type deposition: Unknown.
Type locality: TAIWAN: Karenko [Hualien], Hualien Co. (Kato, 1933b).
Distribution: Taiwan.
- 4. *Aphrophora habonis* (Matsumura, 1940) 短額長翅尖胸沫蟬**
Macrofukia habonis Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 59.
Aphrophora habonis (Matsumura, 1940) [transferred by Liang, 1998: 246].
Type deposition: EIHU (Komatsu and Hayashi, 1998).
Type locality: TAIWAN: Musha [Wushe], Nantou Co. (Matsumura, 1940; Komatsu and Hayashi, 1998).
Distribution: Taiwan.

5. *Aphrophora horishana* Matsumura, 1940 額基黑帶尖胸沫蟬
Aphrophora horishana Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 63.
Type deposition: EIHU (Komatsu and Hayashi, 1998; Komatsu and Hayashi, 1998).
Type locality: TAIWAN: Horisha [Puli], Nantou Co. (Matsumura, 1940).
Distribution: Taiwan.
6. *Aphrophora horizontalis* Kato, 1933 雙黑帶尖胸沫蟬
Aphrophora horizontalis Kato, 1933b, Entomol. World 1: 228.
Obiphora mushana Matsumura, 1942a, Ins. Matsumurana 16: 63 [synonymised by Liang, 1998: 246].
Obiphora rectella Matsumura, 1942a, Ins. Matsumurana 16: 64 [synonymised by Liang, 1998: 246].
Type deposition: Unknown.
Type locality: TAIWAN: Karenko [Hualien], Hualien Co. (Kato, 1933b).
Distribution: China (Henan (new record), Anhui, Zhejiang, Hubei, Jiangxi, Fujian, Guangdong, Guangxi, Sichuan, Guizhou, Yunnan), Russia (Maritime Territory, Kurile Island), Korea Peninsula (Sakhalin, Quelpart Islands), Japan (Hokkaido, Honshu, Kyushu, Shikoku), Taiwan.
Remarks: We have examined one male specimen of this species from the Insect Collection of Anhui Agricultural Univ., Anhui Prov., China, which was collected by Dr. Ping Cai from Gikon Mt., Hsinyang Co., Henan Prov., China on July 9, 1997.
7. *Aphrophora intermedia* Uhler, 1896 白帶尖胸沫蟬
Aphrophora intermedia Uhler, 1896, US Natl. Mus. Proc. 19: 288.
Cercopis intermedia (Uhler, 1896); Lallemand, 1912, Gen. Insect 143: 60 (Metcalf, 1962).
Obiphora intermedia (Uhler, 1896); Matsumura, 1942a, Ins. Matsumurana 16: 63 [reinstated combination by Liang, 1998: 246].
Type deposition: USNM (Uhler, 1896).
Type locality: JAPAN: Mt. Ibuki (Liang, 2000).
Distribution: China, Korea, Japan (Hokkaido, Kyushu, Honshu, Shikoku), Taiwan.
8. *Aphrophora karenkoensis* Kato, 1933* 三角黃斑尖胸沫蟬
Aphrophora karenkoensis Kato, 1933b, Entomol. World 1: 229.
Type deposition: Unknown.
Type locality: TAIWAN: Karenko [Hualien], Hualien Co. (Kato, 1933b).
Distribution: Taiwan.
9. *Aphrophora kikuchii* (Matsumura, 1940) 雙白斑尖胸沫蟬
Awaphora kikuchii Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 60.
Aphrophora kikuchii (Matsumura, 1940) [transferred by Liang, 1998: 247].
Type deposition: EIHU (Komatsu and Hayashi, 1998).
Type locality: TAIWAN: Kyuhabon, Nantou Co. (Matsumura, 1940).
Distribution: China, Taiwan.
10. *Aphrophora memorabilis* Walker, 1858 白帶黑紋尖胸沫蟬
Aphrophora memorabilis Walker, 1858, Suppl. List Homopterous Insetcs in BMNH: 186.
Aphrophora notabilis Walker, 1858, Suppl. List Homopterous Insetcs in BMNH: 186 [synonymised by Metcalf, 1962: 466].
Cercopis memorabilis (Walker, 1858); Lallemand, 1912, Gen. Insect 143: 61 [reinstated combination by Metcalf, 1962: 466].
Type deposition: BMNH (Walker, 1858).
Type locality: CHINA (Walker, 1858).
Distribution: China (Anhui, Hubei,

Hunan, Shaanxi, Jiangxi, Jiangsu, Sichuan, Yunnan, Guizhou, Zhejiang, Guangdong, Guangxi, Fujian), Taiwan.

11. *Aphrophora mushana* (Matsumura, 1940) 緣斑透翅尖胸沫蟬

Nagafukia mushana Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 58.

Aphrophora mushana (Matsumura, 1940) [transferred by Liang, 1998: 248].

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Musha [Wushe], Nantou Co. (Matsumura, 1940).

Distribution: Taiwan.

12. *Aphrophora nagasawae* Matsumura, 1907 擬白帶尖胸沫蟬

Aphrophora nagasawae Matsumura, 1907, Annot. Zool. Jpn. 6: 108.

Cercopis nagasawae (Matsumura, 1907); Lallemand, 1912, Gen. Insect 143: 61 [reinstated combination by Metcalf, 1962: 467].

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Taihoku [Taipei] (Matsumura, 1907).

Distribution: Taiwan.

13. *Aphrophora nomurella* (Matsumura, 1942) 平額狹翅尖胸沫蟬

Hosophora nomurella Matsumura, 1942a, Ins. Matsumurana 16: 54.

Hosophora rarasana Matsumura, 1942a, Ins. Matsumurana 16: 54 [synonymised by Liang, 1998: 248].

Aphrophora nomurella (Matsumura, 1942) [transferred by Liang, 1998: 248].

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Arisan [Alishan], Chiayi Co. (Matsumura, 1942a).

Distribution: Taiwan.

14. *Aphrophora taiwana* Kato, 1933* 臺灣擬白帶尖胸沫蟬

Aphrophora taiwana Kato, 1933b, Entomol. World 1: 231.

Miphora taiwana (Kato, 1933b); Matsumura, 1942a, Ins. Matsumurana 16: 61 [reinstated combination by Liang, 1998: 251].

Type deposition: Unknown (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Karenko [Hualien], Hualien Co. (Kato, 1933b).

Distribution: Taiwan.

15. *Aphrophora tsuruana* Matsumura, 1907 褐翅黑點尖胸沫蟬

Aphrophora tsuruana Matsumura, 1907, Annot. Zool. Jpn. 6: 110.

Cercopis tsuruana (Matsumura, 1907); Lallemand, 1912, Gen. Insect 143: 63 [reinstated combination by Liang, 1998: 251-252].

Aphrophora kanoniella Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 536 [synonymised by Liang, 1998: 251].

Formophora kohozana Matsumura, 1942a, Ins. Matsumurana 16: 52 [synonymised by Liang, 1998: 251].

Formophora kononiella (Matsumura, 1940) [transferred by Matsumura, 1940: 52, 54].

Sagophora tsuruana (Matsumura, 1907) [transferred by Matsumura, 1942b: 75].

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Taikokan (Matsumura, 1907; Komatsu and Hayashi, 1998).

Distribution: China (Hubei, Jiangxi, Fujian, Guangdong, Guangxi, Sichuan, Guizhou), Taiwan.

Genus *Aphropsis* Metcalf and Horton, 1934 脊沫蟬屬

Aphropsis Metcalf and Horton, 1934, Lingnan Sci. J. 13: 409.

Type species: *Aphropsis gigantean* Metcalf and Horton, 1934

16. *Aphropsis maxima* Jacobi, 1921 大脊沫蟬
Aphropsis maxima Jacobi, 1921, Arch. f. Natuegesch. 87: 28.
Type deposition: SMTD (Emmrich, 1974).
Type locality: TAIWAN: Hoozan [Fengshan], Kaohsiung Co. (Jacobi, 1921).
Distribution: Taiwan.
- Genus *Jembrana* Distant, 1908**
歧脊沫蟬屬
- Jembrana* Distant, 1908, Rhynchota IV-Homoptera. The fauna of British India including Ceylon and Burma: 104.
Type species: *Jembrana buprestioides* Distant, 1908
17. *Jembrana arisanensis* Chou and Liang, 1987 長莖歧脊沫蟬
Jembrana arisanensis Chou and Liang, 1987: Entomotaxonomia 9(4): 283-288.
Type deposition: ICRI (Hua, 1989).
Type locality: TAIWAN: Alishan, Chiayi Co. (Chou and Liang, 1987).
Distribution: Taiwan.
18. *Jembrana albinotata* Kato, 1933* 白紋歧脊沫蟬
Jembrana albinotata Kato, 1933b, Entomol. World 1: 224.
Type deposition: Unknown.
Type locality: TAIWAN: Musha [Wushe], Nantou Co. (Kato, 1933b).
Distribution: Taiwan.
19. *Jembrana centralis* Matsumura, 1940 顯中脊歧脊沫蟬
Jembrana centralis Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 51.
Type deposition: EIHU (Komatsu and Hayashi, 1998).
Type locality: TAIWAN: Mt. Ari [Alishan], Chiayi Co. (Matsumura, 1940).
Distribution: Taiwan.
20. *Jembrana daitoensis* Matsumura, 1940 褐斑歧脊沫蟬
Jembrana daitoensis Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 50.
Type deposition: EIHU (Komatsu and Hayashi, 1998).
Type locality: TAIWAN: Mt. Toran [Tatung], Taichung Co. (Matsumura, 1940).
Distribution: Taiwan.
21. *Jembrana flavomaculata* Kato, 1933* 黃斑歧脊沫蟬
Jembrana flavomaculata Kato, 1933b, Entomol. World 1: 223.
Type deposition: Unknown.
Type locality: TAIWAN: Mt. Niitaka, Nantou Co. (Kato, 1933b).
Distribution: Taiwan.
22. *Jembrana formosana* Kato, 1933* 擬褐斑歧脊沫蟬
Jembrana formosana Kato, 1933b, Entomol. World 1: 226.
Type deposition: Unknown.
Type locality: TAIWAN: Suiha (Kato, 1933b).
Distribution: Taiwan.
23. *Jembrana kankonis* Matsumura, 1942 莖端平歧脊沫蟬
Jembrana kankonis Matsumura, 1942a, Ins. Matsumurana 16: 55.
Type deposition: EIHU (Komatsu and Hayashi, 1998).
Type locality: TAIWAN: Kwanko (Matsumura, 1942a).
Distribution: Taiwan.
24. *Jembrana kanoniella* Matsumura, 1940 頭中黑歧脊沫蟬
Jembrana kanoniella Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 51.
Type deposition: EIHU (Komatsu and Hayashi, 1998).
Distribution: Taiwan.

Type locality: TAIWAN: Mt. Ari [Alishan], Chiayi Co. (Matsumura, 1940).
Distribution: Taiwan.

25. *Jembrana punctipennis* Kato, 1933*
翅端黃歧脊沫蟬

Jembrana punctipennis Kato, 1933b, Entomol. World 1: 225.

Type deposition: Unknown.

Type locality: TAIWAN: Musha [Wushe], Nantou Co. (Kato, 1933b).

Distribution: Taiwan.

Genus *Jembra* Metcalf and Horton, 1934 三脊沫蟬屬

Jembra Metcalf and Horton, 1934, Lingnan Sci. J. 13: 408.

Jembroides Matsumura, 1942a, Ins. Matsumurana 16: 55 (Type species: *Jembroides inouyei* Matsumura, 1942) [synonymised by Liang, 1999: 339].

Type species: *Jembra nigronervosa* (Lallemand, 1924)

Remarks: Metcalf and Horton (1934) erected the genus *Jembra*, which only contains the single species *J. pallida* Metcalf and Horton. But, Liang (1999) noted that this species is the synonym of *J. nigronervosa* (Lallemand, 1924).

26. *Jembra inouyei* (Matsumura, 1942)

Jembroides inouyei Matsumura, 1942a, Ins. Matsumurana 16: 56.

Jembra inouyei (Matsumura, 1942) [transferred by Liang, 1999: 345].

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Arisan [Alishan], Chiayi Co. (Matsumura, 1942a).

Distribution: Taiwan.

Genus *Jembrophora* Matsumura, 1942 大頰中脊沫蟬屬

Jembrophora Matsumura, 1942a, Ins. Matsumurana 16: 57.

Type species: *Jembrophora sawadai*

Matsumura, 1942

27. *Jembrophora sawadai* Matsumura, 1942 直莖大頰中脊沫蟬

Jembrophora sawadai Matsumura, 1942a, Ins. Matsumurana 16: 57.

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Hattsukan [Patungkuang], Nantou Co. (Matsumura, 1942a).

Distribution: Taiwan.

Genus *Megafukia* Matsumura, 1940 大尖胸沫蟬屬

Megafukia Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 59.

Type species: *Megafukia gigas* (Kato, 1933)

28. *Megafukia gigas* (Kato, 1933) * 臺灣大尖胸沫蟬

Aphrophora gigas Kato, 1933b, Entomol. World 1: 227.

Megafukia gigas (Kato, 1933) [transferred by Matsumura, 1940: 59].

Type deposition: Unknown.

Type locality: TAIWAN: Shinchiku [Hsinchu], Hsinchu Co. (Kato, 1933b).

Distribution: Taiwan.

Tribe CLOVIINI Schmidt, 1920 鏟頭沫蟬族

Cloviini Schmidt, 1920a, Stettin Entomol. Ztg. 81: 48.

Genus *Clovia* Stål, 1866 鏟頭沫蟬屬

Clovia Stål, 1866, Hemiptera Africana 4: 75.

Betaclovia Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 38 (Type species: *Betaclovia longicephala* (Kato, 1933)) [synonymised by Liang, 1998: 243].

Type species: *Clovia bigoti* (Signoret,

1858)

29. *Clovia bipunctata* Kirby, 1891 二點鏟頭沫蟬

Clovia bipunctata Kirby, 1891, Linn. Soc. London J. Zool. 24: 163 (Metcalf, 1962).

Type deposition: Unknown.

Type locality: CEYLON [SRILANKA] (Metcalf, 1962).

Distribution: India (Pondicherry), Bengal, Sri Lanka, China (Fujian), Japan, Taiwan, Java.

30. *Clovia conifera* (Walker, 1851) 錐形禾草鏟頭沫蟬

Ptyelus conifer Walker, 1851, List Homopterous Insetcs in BMNH 3: 711.

Ptyelus simulans Walker, 1851, List Homopterous Insetcs in BMNH 3: 717 [synonymised by Metcalf, 1962: 100].

Ptyelus frenulatus Stål, 1854, Akad. Forhandl. 11: 250 [synonymised by Metcalf, 1962: 100].

Clovia frenulata (Stål, 1854) [reinstated combination by Stål, 1866: 75].

Clovia conifer (Walker, 1851) [transferred by Atkinson, 1885: 19].

Type deposition: BMNH (Walker, 1851).

Type locality: East Indies (Walker, 1851).

Distribution: India, Bangladesh [Bengal], Sikkim, Burma, Thailand, Laos, Cambodia, Vietnam, China (Xizang, Tsinghai, Gansu, Yunnan, Guizhou, Guangxi, Guangdong, Fujian), Japan, Taiwan, Philippines, Malay Peninsula, Malaysia (Malacca, **Pahang (new record)**, **Perak (new record)**, Sarawak), Singapore, Indonesia.

Remarks: We have examined 4 male and 11 female specimens of this species from TARI. Those specimens were collected by Drs. C.W. & L.B. O'Brien from Pahang (1 ♂, 3 ♀) and Perak (3 ♂, 8 ♀), Malaysia on 7-30 July 1992.

31. *Clovia lineatocollis* (de Motschulsky, 1859) 黑縱線鏟頭沫蟬

Aphrophora lineatocollis de Motschulsky, 1859: 110 (Metcalf, 1962).

Clovia perstrigata Kirby, 1891a, Linn. Soc. London J. Zool. 24: 162.

Clovia lineatocollis (de Motschulsky); Melichar, 1903, Homopteren- Fauna von Ceylon 1903: 135.

Type deposition: Unknown.

Type locality: CEYLON [Sri Lanka] (Metcalf, 1962).

Distribution: India, Sri Lanka, Taiwan.

32. *Clovia longicephala* Kato, 1933* 長鏟頭沫蟬

Clovia longicephala Kato, 1933b, Entomol. World 1: 220 [reinstated combination by Liang, 1998: 243].

Betaclovia longicephala (Kato) [transferred by Matsumura, 1940: 76].

Type deposition: Unknown.

Type locality: TAIWAN: Musha [Wushe], Nantou Co. (Kato, 1933b).

Distribution: Taiwan.

33. *Clovia multilineata* (Stål, 1865) 密線鏟頭沫蟬

Ptyelus multilineata Stål, 1865, Ofversigt af Svenska Vetensk. Akad. Forhandl. 22: 154 (Metcalf, 1962).

Clovia multilineata (Stål, 1865) [transferred by Stål, 1866: 76].

Type deposition: Unknown.

Type locality: CHINA (Metcalf, 1962).

Distribution: China (Guangdong, Sichuan, Yunnan), Taiwan, Oriental region.

34. *Clovia peracuta* Jacobi, 1921 臺灣斜線鏟頭沫蟬

Clovia peracuta Jacobi, 1921, Arch. f. Natuegesch. 87: 13.

Type deposition: SMTD (Emmrich, 1974).

Type locality: TAIWAN (Jacobi, 1921).

Distribution: Taiwan.

35. *Clovia puncta* (Walker, 1851) 一點鏟頭沫蟬

Ptyelus punctum Walker, 1851, List Homopterous Insetcs in BMNH 3: 718, 719.

Ptyelus bipunctipennis Stål, 1854, Ofversigt af Svenska Vetensk. Akad. Forhandl. 11: 250 [synonymised by Metcalf, 1962: 118].

Clovia punctum (Walker, 1851); Metcalf, 1962: 118, 119.

Type deposition: BMNH.

Type locality: North Bengale (Walker, 1851).

Distribution: India (Madras, Bombay [Mumbai], Uttar Pradesh, Mysore, Bihar), Sikkim, Vietnam (Tonkin, Tonlon), Bangladesh, China (Sichuan, Hubei, Jiangsu, Yunnan, Guizhou, Hunan, Jiangxi, Zhejiang, Guangxi, Guangdong, Hong Kong, Hainan, Fujian), Japan (Okinawa, Ryuku), Taiwan (Kinmen, Orchid Island), Java.

36. *Clovia quadrangularis* Metcalf and Horton, 1934 方斑鏟頭沫蟬

Clovia quadrangularis Metcalf and Horton, 1934, Lingnan Sci. J. 13: 422.

Clovia rectangularis Lallemand, 1942, Notes Entomol. Chinoise 9: 69 [synonymised by Metcalf, 1962: 120].

Type deposition: ICRI (formerly called Lingnan Univ.) (Hua, 1989) and NCSU (pers. comm.).

Type locality: CHINA: Hainan (Metcalf and Horton, 1934).

Distribution: China (Sichuan, Hubei, Anhui, Hunan, Jiangxi, Zhejiang, Yunnan, Guizhou, Guangxi, Hainan, Guangdong, Fujian), Taiwan (Kinmen).

Genus *Nagaclovia* Matsumura, 1940 長鏟頭沫蟬屬

Nagaclovia Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 48.

Type species: *Nagaclovia formosana* Matsumura, 1940

37. *Nagaclovia formosana* Matsumura, 1940 長鏟頭沫蟬

Nagaclovia formosana Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 48.

Nagaclovia piceipectus Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 49 [synonymised by Liang, 1998: 252].

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Kotosho [Orchid Is.], Taitung Co. (Matsumura, 1940).

Distribution: Taiwan (Eastern Taiwan; Orchid Island; Green Island (**new record**)), China, Japan (Okinawa).

Remarks: The present authors collected this species from the plant *Miscanthus floridulus* (Labill.) Warb. ex Schum. & Laut. (Poaceae) from 1998 to 2002 in Taiwan and its adjacent islands, such as Orchid Island and Green Island. Its host-plant range is very narrow by the authors' collection records.

Tribe LEPYRONIINI Lallemand and Synave, 1952 圓沫蟬族

Lepyroniini Lallemand and Synave, 1952, Brussels Inst. Roy. Sci. Nat. Bull. 28: 17.

Genus *Ariptyelus* Matsumura, 1940 凸額脊沫蟬屬

Ariptyelus Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 50.

Toroptylus Matsumura, 1942b, Ins. Matsumurana 16: 90 (Type species: *Toroptylus arisanus* Matsumura, 1942) [synonymised by Liang, 1998: 243].

Type species: *Ariptyelus auropilosus* (Matsumura, 1907).

38. *Ariptyelus arisanus* (Matsumura, 1942) 凸額褐帶脊沫蟬

Toroptylus arisanus Matsumura, 1942b,

Ins. Matsumurana 16: 91.
Ariptyelus arisanus (Matsumura, 1942)
[transferred by Liang, 1998: 252].

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Arisan [Alishan], Chiayi Co. (Matsumura, 1942b; Komatsu and Hayashi, 1998).

Distribution: Taiwan.

39. *Ariptyelus auropilosus* (Matsumura, 1907) 金毛凸額脊沫蟬

Aphrophora auropilosus Matsumura, 1907, Annot. Zool. Jpn. 6: 113.

Cercopis auropilosus (Matsumura, 1907)
[transferred by Lallemand, 1912: 60].

Peuceptyelus auropilosus (Matsumura, 1907) [transferred by Schumacher, 1915a: 88].

Ariptyelus auropilosus (Matsumura, 1907)
[transferred by Matsumura, 1940: 50].

Ariptyelus kikuchii Matsumura, 1942a, Ins. Matsumurana 16: 47 [synonymised by Liang, 1998: 252].

Ariptyelus shokanus Matsumura, 1942a, Ins. Matsumurana 16: 47 [synonymised by Liang, 1998: 252].

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Koshun [Henchun], Pingtung Co. (Matsumura, 1907; Komatsu and Hayashi, 1998).

Distribution: China (Yunnan), Japan, Taiwan.

Genus *Lepyronia* Amyot and Serville, 1843 圓沫蟬屬

Lepyronia Amyot and Serville, 1843, Hemipteres. 1843: 567.

Euclovia Matsumura, 1903, Sapporo Col. Agric. J. 2: 24 (Type species: *Euclovia okadae* Matsumura, 1903) [synonymised by Nast, 1972: 160].

Type species: *Lepyronia coleoprata* (Linnaeus, 1758)

40. *Lepyronia okadae* (Matsumura, 1903) 斜帶圓沫蟬

Euclovia okadae Matsumura, 1903, Sapporo Col. Agric. J. 2: 25.

Lepyronia bifasciata Liu, 1942, Lingnan Sci. J. 20: 245 [synonymised by Nast, 1972: 160].

Lepyronia okadae (Matsumura, 1903)
[transferred by Nast, 1972: 161].

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: JAPAN: Schizuoka (Matsumura, 1903; Komatsu and Hayashi, 1998).

Distribution: China (Anhui, Fujian, Guangdong, Guizhou, Hebei, Henan, Hubei, Jianxi, Jiangsu, Jiling, Sinkiang, Shandong, Munchuria, Sichuan, Yunnan), Korea Peninsula, Japan (Honshu, Kyushu), Taiwan (Liang, 1992).

Genus *Nokophora* Matsumura, 1940 長喙尖胸沫蟬屬

Nokophora Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 56.

Type species: *Nokophora nokoensis* Matsumura, 1940

41. *Nokophora nokoensis* Matsumura, 1940 長喙尖胸沫蟬

Nokophora nokoensis Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 56.

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Noko [Nengkao], Nantou Co. (Matsumura, 1940).

Distribution: Taiwan.

Genus *Peuceptyelus* Sahlberg, 1871 卵沫蟬屬

Peuceptyelus Sahlberg, 1871, Not. Fenn. (n.s.) 9(12): 84 (Metcalf, 1962).

Jembropsis Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 52 (Type species: *Jembropsis roku-*

- rinzana* Matsumura, 1940) [synonymised by Liang, 1998: 243].
- Kitapytelus* Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 36 (Type species: *Peuceptyelus miyabei* Matsumura, 1911) [synonymised by Liang, 1998: 243].
- Ainoptyelus* Matsumura, 1942a, Ins. Matsumurana 16: 46 (Type species: *Peuceptyelus nigroscutellatus* Matsumura, 1904) [synonymised by Nast, 1972: 162; synonymy confirmed by Liang, 1998: 244].
- Eguptyelus* Matsumura, 1942a, Ins. Matsumurana 16: 50 (Type species: *Jembropsis excavatus* Matsumura, 1940) [synonymised by Liang, 1998: 244].
- Futapytelus* Matsumura, 1942a, Ins. Matsumurana 16: 50 (Type species: *Futapytelus hiraozanus* Matsumura, 1942) [synonymised by Liang, 1998: 244].
- Iwapytelus* Matsumura, 1942a, Ins. Matsumurana 16: 50 (Type species: *Peuceptyelus ogasawarai* Matsumura, 1940) [synonymised by Liang, 1998: 244].
- Kageptyelus* Matsumura, 1942a, Ins. Matsumurana 16: 58 (Type species: *Kageptyelus kageyamai* Matsumura, 1942) [synonymised by Liang, 1998: 244].
- Koreptyelus* Matsumura, 1942a, Ins. Matsumurana 16: 59 (Type species: *Kitapytelus ikumai* Matsumura, 1940) [synonymised by Liang, 1998: 244].
- Maptyelus* Matsumura, 1942a, Ins. Matsumurana 16: 59 (Type species: *Maptyelus depressus* Matsumura, 1942) [synonymised by Liang, 1998: 244].
- Mimoptyelus* Matsumura, 1942a, Ins. Matsumurana 16: 61 (Type species: *Peuceptyelus takaosanus* Matsumura, 1934) [synonymised by Liang, 1998: 244].
- Nikkoptyelus* Matsumura, 1942b, Ins. Matsumurana 16: 102 (Type species: *Peuceptyelus dimidiatus* Matsumura, 1904) [synonymised by Liang, 1998: 244].
- Oiptyelus* Matsumura, 1942a, Ins. Matsumurana 16: 66 (Type species: *Peuceptyelus oiwakeanus* Matsumura, 1934) [synonymised by Liang, 1998: 244].
- Sappoptyelus* Matsumura, 1942b, Ins. Matsumurana 16: 75 (Type species: *Sappoptyelus jozanus* Matsumura, 1942) [synonymised by Liang, 1998: 244].
- Type species:** *Peuceptyelus coriaceus* (Fallen, 1826)
42. *Peuceptyelus coriaceus* (Fallen, 1826)
鞘卵沫蟬
- Cercopsis coriacea* Fallen, 1826, Hemiptera Sveciae 2: 14 (Metcalf, 1962).
- Aphrophora carixia* Walker, 1851, List Homopterous Insetcs in BMNH 3: 701 [synonymised by Metcalf, 1962: 209].
- Peuceptyelus coriacea* (Fallen, 1826) [transferred by Sahlberg, 1871: 272] (Metcalf, 1962).
- Type deposition:** Unknown.
- Type locality:** SWEDEN (Metcalf, 1962).
- Distribution:** Sweden, Norway, Denmark, Finland, Latvia, Estonia, Germany, Hungary, Austria, Poland, Central Europe, Altai Mountains, Ural Mountains, Belorussia, Kurile Islands, Siberia, China, Taiwan.
43. *Peuceptyelus excavatus* (Matsumura, 1940) 翅緣褐條卵沫蟬
- Jembropsis excavatus* Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 54.
- Eguptyelus excavatus* (Matsumura, 1940) [transferred by Matsumura, 1942a: 50].
- Peuceptyelus excavatus* (Matsumura, 1940) [transferred by Liang, 1998: 244].
- Type deposition:** EIHU (Komatsu and Hayashi, 1998).
- Type locality:** TAIWAN: Numanohira

- [Chaopin], Alishan, Chiayi Co. (Matsumura, 1940).
Distribution: Taiwan.
44. *Peuceptylus kanmonis* (Matsumura, 1940) 翅雙褐弧卵沫蟬
Jembropsis kanmonis Matsumura, 1940. J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 53.
Peuceptelus kanmonis (Matsumura, 1940) [transferred by Liang, 1998: 253].
Type deposition: EIHU (Komatsu and Hayashi, 1998).
Type locality: TAIWAN: Kanmon [Kuangman], Nantou Co. (Matsumura, 1940; Komatsu and Hayashi, 1998).
Distribution: Taiwan.
45. *Peuceptylus nigriceps* (Matsumura, 1940) 四斑首卵沫蟬
Jembropsis nigriceps Matsumura, 1940. Hokkaido Imp. Univ. Fac. Agric. J. 45 (2): 54.
Peuceptelus nigriceps (Matsumura) [transferred by Liang, 1998: 254].
Type deposition: EIHU (Komatsu and Hayashi, 1998).
Type locality: TAIWAN: Kanmon [Kuangman], Nantou Co. (Matsumura, 1940).
Distribution: Taiwan.
46. *Peuceptylus nitobei* (Matsumura, 1940) 白斑首卵沫蟬
Jembropsis nitobei Matsumura, 1940. Hokkaido Imp. Univ. Fac. Agric. J. 45 (2): 53.
Peuceptelus nitobei (Matsumura) [transferred by Liang, 1998: 254].
Type deposition: EIHU (Komatsu and Hayashi, 1998).
Type locality: TAIWAN: Kanmon [Kuangman], Nantou Co. (Matsumura, 1940).
Distribution: Taiwan.
47. *Peuceptylus rokurinzana* (Matsumura, 1940) 黃皺卵沫蟬
Jembropsis rokurinzana Matsumura, 1940. J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 52.
Peuceptelus rokurinzana (Matsumura) [transferred by Liang, 1998: 254].
Type deposition: EIHU (Komatsu and Hayashi, 1998).
Type locality: TAIWAN: Mt. Rokurin [Lulinshan], Chiayi Co. (Matsumura, 1940).
Distribution: Taiwan.
48. *Peuceptylus sigillifer* (Walker, 1851) 污卵沫蟬
Aphrophora sigillifer Walker, 1851, List Homopterous Insetcs in BMNH 3: 700.
Aphrophora maculipes Stål, 1870, Ofversight at Svenska Vetensk. Akad. Forhandl. 27: 723. [synonymised by Metcalf, 1962: 214]
Aphrophora facialis Kirby, 1891, Linn. Soc. London J. Zool. 24: 161 [synonymised by Metcalf, 1962: 214].
Aphrophora deserta Melichar, 1903, Homopteren- Fauna von Ceylon 1903: 131 [synonymised by Metcalf, 1962: 214].
Cercopis deserta (Melichar, 1903); Lallemand, 1912, Gen. Insect 143: 60 (Metcalf, 1962).
Cercopis fascialis (Kirby, 1891); Lallemand, 1912, Gen. Insect 143: 60 (Metcalf, 1962).
Cercopis maculipes (Stål, 1870); Lallemand, 1912, Gen. Insect 143: 60 (Metcalf, 1962).
Peuceptylus sigillifer (Walker, 1851) [transferred by Jacobi, 1921: 25].
Type deposition: BMNH (Walker, 1851).
Type locality: Northern India (Walker, 1851).
Distribution: India (Mumbai, Madaras, Uttar Pradesh), Sri Lanka, Burma, Bengal, Sikkim, Vietnam (Cochin China, Tonkin), China (Anhui, Zhejiang, Hubei, Jiangxi, Hunan, Fujian, Guangdong, Guangxi, Sichuan, Guizhou, Yunnan), Japan,

Taiwan, Philippines, Indonesia (Sumatra, Java, Siberut, Lombok, Coorg, Flores).

49. *Peuceptelus takaosanus* Matsumura, 1934 滑翅卵沫蟬

Peuceptelus takaosanus Matsumura, 1934, Ins. Matsumurana 9: 78 [reinstated combination by Liang, 1998:254].

Mimoptelus takaosanus (Matsumura, 1934) [transferred by Matsumura, 1942: 61].

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Mt. Takao [Kaohsiung], Kaohsiung Co. (Matsumura, 1934).

Distribution: Japan (Honshu), Taiwan.

Tribe PHILAENINI Metcalf, 1955 長沫蟬族

Philaenini Metcalf, 1955, J. Wash. Acad. Sci. 45: 264.

Genus *Philaenus* Stal, 1864 長沫蟬屬

Philaenus Stal, 1864, Stettin Entomol. Ztg. 25: 66 (Metcalf, 1962).

Type species: *Cicada spumarius* (Linnaeus, 1758)

50. *Philaenus arisanus* Matsumura, 1940 阿里山長沫蟬

Philaenus arisanus Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 43.

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Mt. Ari [Alishan], Chiayi Co. (Matsumura, 1940).

Distribution: Taiwan.

51. *Philaenus castaneus* Kato, 1933* 樹長沫蟬

Philaenus castaneus Kato, 1933b, Entomol. World 1: 234.

Type deposition: Unknown.

Type locality: TAIWAN: Karenko [Hualien], Hualien Co. (Kato, 1933b).

Distribution: Taiwan.

52. *Philaenus flavovittatus* Kato, 1933* 黃條長沫蟬

Philaenus flavovittatus Kato, 1933b, Entomol. World 1: 222.

Type deposition: Unknown.

Type locality: TAIWAN: Karenko [Hualien], Hualien Co. (Kato, 1933b).

Distribution: Taiwan.

53. *Philaenus minutus* Kato, 1933* 小長沫蟬

Philaenus minutus Kato, 1933b, Entomol. World 1: 222.

Type deposition: Unknown.

Type locality: TAIWAN: Hori [Puli], Nantou Co. (Kato, 1933b).

Distribution: Taiwan.

54. *Philaenus mushanus* Matsumura, 1940 五條額斑長沫蟬

Philaenus mushanus Matsumura, 1940, Hokkaido Imp. Univ. Fac. Agric. J. 45 (2): 44.

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Musha [Wushel], Nantou Co. (Matsumura, 1940).

Distribution: Taiwan.

55. *Philaenus nigripectus* (Matsumura, 1903) 黑胸長沫蟬

Ptyelus nigripectus Matsumura, 1903, Sapporo Col. Agric. J. 2: 51.

Philaenus nigripectus (Matsumura, 1903) Matsumura, 1940, Hokkaido Imp. Univ. Fac. Agric. J. 45 (2): 76.

Type deposition: Unknown.

Type locality: JAPAN: Sapporo (Matsumura, 1903).

Distribution: Japan (Hokkaido, Shikoku), Taiwan.

56. *Philaenus pallidus* (Melichar, 1903) 淡色長沫蟬

Ptyelus pallidus Melichar, 1903, Homo-

pteren- Fauna von Ceylon 1903: 135.
Philaenus pallidus (Melichar, 1903)
[transferred by Matsumura, 1940:
48].

Type deposition: Museum in Budapest,
Hungary (Melichar, 1903).

Type locality: CEYLON [Sri Lanka]
(Melichar, 1903).

Distribution: India, Sri Lanka, China,
Japan, Taiwan, Malaya.

**Tribe PHILAGRINI Schmidt,
1920 象沫蟬族**

Philagrini Schmidt, 1920a, Stettin Ento-
mol. Ztg. 81: 51.

**Genus *Philagra* Stal, 1863 象沫蟬
屬**

Philagra Stal, 1863, Entomol. Soc.
London Trans. (3)1: 593 [replaced
name of *Chalepus* Walker, 1851 by
Distant in 1908].

Chalepus Walker, 1851, List Homopterous
Insetcs in BMNH 3: 731.

Philagrina Lallemand, 1946, Soc.
Entomol. De Belg. Bul. Et Ann. 82:
193 (Type species: *Philagrina
espadon* Lallemand, 1946) [synony-
mised by Liang, 2001: 444].

Type species: *Philagra douglasi* Stål,
1863

Remarks: Metcalf and Horton (1934)
noted the name *Chalepus* was
preoccupied by Thunberg (1805). The
genus *Chalepus* of the family
Chrysomelidae (Insecta: Coleoptera)
was erected by Thunberg in 1805.

**57. *Philagra arisana* Kato, 1933* 阿里山
白紋象沫蟬**

Philagra arisana Kato, 1933b, Entomol.
World 1: 236.

Type deposition: Unknown.

Type locality: TAIWAN: Arisan [Ali-
shan], Chiayi Co. (Kato, 1933).

Distribution: Taiwan.

**58. *Philagra fusiformis* (Walker, 1858)
錘形象沫蟬**

Cyrene fusiformis Walker, 1858, Suppl.
List Homopterous Insetcs in BMNH
1858: 47.

Philagra fusiformis (Walker, 1858)
[transferred by Distant, 1908: 108].

Tonga fusiformis (Walker, 1858) [trans-
ferred by Schmidt, 1910: 174]
(Metcalf, 1962).

Type deposition: BMNH (Walker, 1858).

Type locality: Unknown.

Distribution: India (Assam, Uttan
Pradesh), Sikkim, Burma, Bang-
ladesh, Tailand, Vietnam (Tonkin),
China (Guangdong, Hong Kong),
Taiwan.

**58-1. *Philagra fusiformis* var. *numerosa*
Lallemand, 1912 短額錘形象沫蟬**

Philagra fusiformis numerosa Lallemand,
1912, Gen. Insect 143: 72 (Metcalf,
1962).

Philagra numerosa Kato, 1933a, Three
Colour Illustrated Insects of Japan 4:
pl. 43.

Type deposition: DEI (Gaedike, 1971).

Type locality: INDIA (Metcalf, 1962).

Distribution: India, Taiwan, Japan.

**59. *Philagra insularis* Jacobi, 1921 狹體
錘形象沫蟬**

Philagra insularis Jacobi, 1921, Arch. f.
Natuegesch. 87: 30.

Type deposition: SMTD (Emmrich,
1974).

Type locality: TAIWAN (Jacobi, 1921).

Distribution: Taiwan.

**60. *Philagra kanoi* Matsumura, 1940 擬
阿里山白紋象沫蟬**

Philagra kanoi Matsumura, 1940. J. Fac.
Agric. Hokkaido Imp. Univ. 45(2): 65.

Type deposition: EIHU (Komatsu and
Hayashi, 1998).

Type locality: TAIWAN: Arisan [Ali-
shan], Chiayi Co. (Matsumura, 1940).

Distribution: Taiwan.

61. *Philagra kuskusuana* Matsumura, 1942 松村氏長額象沫蟬

Philagra kuskusuana Matsumura, 1942b, Ins. Matsumurana, 16: 72.

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Kuskusu [Kaoshih], Pingtung Co. (Matsumura, 1942b).

Distribution: Taiwan.

62. *Philagra longirostris* Schumacher, 1915* 長額錘形象沫蟬

Philagra fusiformis longirostris Schumacher, 1915b, Suppl. Entomol. 4: 114.

Philagra koshunensis Kato, 1933a, Three Colour Illustrated Insects of Japan 4: Pl. 43.

Type deposition: DEI (Gaedike, 1971).

Type locality: TAIWAN: Kankau, Koshun [Hengchun], Pingtung Co. (Schumacher, 1915b).

Distribution: Taiwan.

63. *Philagra montana* Kato, 1933* 太平山象沫蟬

Philagra montana Kato, 1933b, Entomol. World 1: 235.

Type deposition: Unknown.

Type locality: TAIWAN: Mt. Taihei [Taipingshan], Ilan Co. (Kato, 1933b).

Distribution: Taiwan.

64. *Philagra subrecta* Jacobi, 1921 黃翅象沫蟬

Philagra subrecta Jacobi, 1921, Arch. f. Natuegesch. 87: 30.

Type deposition: SMTD (Emmrich, 1974).

Type locality: TAIWAN (Jacobi, 1921).

Distribution: China (Zhejiang, Jiangxi, Fujian, Guangdong, Hainan, Sichuan, Yunnan, Xizang [Tibet]), Taiwan, Vietnam.

Tribe PTYELINI Fowler, 1897 脊沫蟬族

Ptyelinae Fowler, 1897, Biol. Centrali-Am. 2: 174 (Metcalf, 1962).

Ptyelini Schmidt, 1920, Arch. f. Naturgesch. 85: 115.

Genus *Kotophora* Matsumura, 1940 擬短頭脊沫蟬屬

Kotophora Matsumura, 1940. J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 47.

Type species: *Kotophora botelensis* (Matsumura, 1938)

65. *Kotophora botelensis* (Matsumura, 1938) 擬短頭脊沫蟬

Aphrophora botelensis Matsumura, 1938, Ins. Matsumurana 12:149.

Kotophora botelensis (Matsumura, 1938) [transferred by Matsumura, 1940: 75].

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Kotosho [Orchid Island], Taitung Co. (Matsumura, 1938).

Distribution: Taiwan (Orchid Island).

Remarks: Matsumura (1940) noted the species is very allied to *Poophilus costalis* (Walker, 1851).

Genus *Mesoptyelus* Matsumura, 1904 中脊沫蟬屬

Mesoptyelus Matsumura, 1904. Annot. Zool. Jpn. 5: 48.

Type species: *Mesoptyelus nigrifrons* Matsumura, 1904

66. *Mesoptyelus arisanus* Matsumura, 1940 阿里山一帶中脊沫蟬

Mesoptyelus arisanus Matsumura, 1940. J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 45.

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Arisan [Ali-shan], Chiayi Co. (Matsumura, 1940; Komatsu and Hayashi, 1998).

Distribution: Taiwan.

67. *Mesoptylus auropilosus* Kato, 1933*

寬帶中脊沫蟬

Mesoptylus auropilosus Kato, 1933b,
Entomol. World 1: 234.

Type deposition: Unknown.

Type locality: TAIWAN: Arisan [Alishan], Chiayi Co. (Kato, 1933b).

Distribution: Taiwan.

**68. *Mesoptylus fascialis* Kato, 1933* —
帶中脊沫蟬**

Mesoptylus fascialis Kato, 1933b,
Entomol. World 1: 233.

Type deposition: Unknown.

Type locality: TAIWAN: Musha [Wushe],
Nantou Co. (Kato, 1933b).

Distribution: Russian Maritime Territory,
Taiwan, China.

**69. *Mesoptylus karenkonis* Matsumura,
1940 三帶中脊沫蟬**

Mesoptylus karenkonis Matsumura, 1940.
J. Fac. Agric. Hokkaido Imp. Univ.
45(2): 46.

Type deposition: EIHU (Komatsu and
Hayashi, 1998).

Type locality: TAIWAN: Karenko
[Hualien], Hualien Co. (Matsumura,
1940).

Distribution: Taiwan.

**Genus *Poophilus* Stål, 1866 短頭
脊沫蟬屬**

Poophilus Stål, 1866, Hemiptera Africana
4: 72.

Type species: *Poophilus actuosus* (Stål,
1855)

**70. *Poophilus costalis* (Walker, 1851) 嗜
菊短頭脊沫蟬**

Ptyelus costalis Walker, 1851, List
Homopterous Insetcs in BMNH 3:
707.

Ptyelus concolor Walker, 1851, List
Homopterous Insetcs in BMNH 3:
715 [synonymised by Metcalf, 1962:

23].

Ptyelus natalensis Stål, 1855, Ofversigt af
Svenska Vetensk. Akad. Forhandl. 12:
97 [synonymised by Metcalf, 1962:
23].

Ptyelus rotundatus Fairmair and Signoret,
1858: 332. (Metcalf, 1962).

Ptyelus dolosus Walker, 1858, Suppl. List
Homopterous Insetcs in BMNH 1858:
189 [synonymised by Metcalf, 1962:
23].

Poophilus natalensis Stål, 1866,
Hemiptera Africana 4: 74 [synony-
mised by Metcalf, 1962: 23].

Poophilus costalis (Walker, 1851)
[transferred by Atkinson, 1885: 114].

Poophilus actuosus Distant, 1892, Homo-
ptera. A naturalist in the Transvaal
1892: 248 [synonymised by Metcalf,
1962: 24].

Gallicana flava Metcalf and Horton, 1934,
Lingnan Sci. J. 13: 420 [synony-
mised by Metcalf, 1962: 26].

Type deposition: BMNH (Walker, 1851).

Type locality: Northern India (Walker,
1851).

Distribution: Western Africa (Dahomey
[Benin], Guinea, Ivory Coast),
Central Africa (Angola, Cameroon,
Central African Republic, Congo,
Gabon), Southern Africa (Nyasaland
[Malawi], South Africa (Natal,
Transvaal)), Eastern Africa (Somali-
land, Tanganyika [Tanzania],
Uganda), Russia, Iran, Afghanistan,
India (Assam, Bihar, Mumbai,
Darjeeling, Madras, Uttar Pradesh),
Bangladesh, Sri Lanka, Nepal, China
(Xinjiang, Fujian, Hainan, Guang-
dong). Japan (Okinawa), Taiwan
(Kinmen), Philippines, Malay Penin-
sula, Singapore.

**71. *Poophilus grisescens* (Schaum, 1853)
灰短頭脊沫蟬**

Aphrophora grisescens Schaum, 1853, Ber.
Akad. Berlin 1853: 359 (Metcalf,
1962).

Poophilus grisecens (Schaum, 1853)

[transferred by Jacobi, 1904: 776].

Type deposition: Unknown.

Type locality: MOZAMBIQUE (Metcalf, 1962).

Distribution: Central Africa (Cameroon, Congo), Eastern Africa (Tanganyika, Uganda), Western Africa (Dahomey), Southern Africa (Mozambique, Natal, South Africa), India, Taiwan, Malaysia.

Genus *Ptyelus* Le Peletier and Serville, 1825 脊沫蟬屬

Ptyelus Le Peletier and Serville, 1825, Histoire Naturelle. Entomologie, ou histoire Naturelle des Crustacés, des Arachnides et des Insectes 10: 608 (Metcalf, 1962).

Ptyela Germar, 1833, Rev. Entomol. Silbermann 1: 179 [synonymised by Metcalf, 1962: 33].

Plinthacrus Spinola, 1850, Soc. Ital. Modena Mem. 25: 56 [synonymised by Metcalf, 1962: 34].

Ampleus Licent, Thèses présentées à la Faculté des Sciences de Nancy pour obtenir le grade de docteur es-sciences naturelles 1912: 28 [synonymised by Metcalf, 1962: 38].

Type species: *Ptyelus flavescens* (Fabricius, 1794).

72. *Ptyelus tamahonis* Matsumura, 1940 擬阿里山長沫蟬

Ptyelus tamahonis Matsumura, 1940, J. Fac. Agric. Hokkaido Imp. Univ. 45(2): 74.

Type deposition: EIHU (Komatsu and Hayashi, 1998).

Type locality: TAIWAN: Tomaho (near Mt. Niitaka), Nantou Co. (Matsumura, 1940).

Distribution: Taiwan.

Remarks: Matsumura (1940) noted the species is very allied to *Philaenus arisanus* Matsumura, but it lacks a transverse furrow along each side of the vertical ridge.

73. *Ptyelus vittatus* Kato, 1933* 縱條紋脊沫蟬

Ptyelus vittatus Kato, 1933b, Entomol. World 1: 221.

Type deposition: Unknown.

Type locality: TAIWAN: Karenko [Hualien], Hualien Co. (Kato, 1933b).

Distribution: Taiwan.

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摘 要

全世界已知的尖胸沫蟬科昆蟲種類已超過 900 種。臺灣至今已記錄種類有 73 種，其中 50 種 (68.5%) 僅分佈於臺灣。本名錄除修訂臺灣產尖胸沫蟬的分佈資料以外，亦提供模式存放處與模式產地的資訊。

關鍵詞：同翅目，沫蟬總科，尖胸沫蟬科，臺灣，名錄

