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NEW SPECIES AND GENERA OF CALLIPTERINAE (APHIDIDAE) OF JAPAN

By

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日本産斑蚜蟲亞科の新種及新屬

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Since I have published a list of the Japanese Aphididae with the descriptions of new species and genera in 1917, Messrs. E. O. ESSIG and S. I. KUWANA described also some Japanese Aphididae, in which 8 Callipterids-species are given. In this and last year's collections there are some new Callipterids which I shall describe in this occasion. At present we have in Japan the following 34 species under 19 genera, of which 14 species and 7 genera are new.

1. *Yamatocallis hirayamae* MATS.
2. *Nippocallis kuricola* MATS.
3. *Acanthocallis quercicola* MATS. = *Myzocallis macrotuberculata* ESS. et KUW.
4. *Tinocallis* (n. g.) *ulmi parvifoliae* n. sp.
5. *Ptychodes quercicola* n. sp.
6. *Myzocallis kashiwae* MATS.
7. " *sasae* MATS.
8. " *capitata* ESS. et KUW.
9. " *naracola* n. sp.
10. " *castaneae* BUCK. (?)
11. *Recticallis* (n. g.) *alni japonicae* n. sp.
12. *Mesocallis* (n. g.) *sawashibae* MATS.
13. " *pteleae* n. sp.
14. " *fagicola* n. sp.
15. *Neocallis* (n. g.) *carpinicola* n. sp.
16. *Calaphis magnoliae* ESS. et KUW.

17. *Chromaphis celticolens* Ess. et Kuw.
18. *Takecallis bambusae* MATS.
19. *Hannabura alnicola* MATS.
20. *Sappocallis* (n. g.) *ulmicola* n. sp.
21. *Euceraphis* (*Yezocallis*) *alniaria* MATS. = *E. japonica* Ess. et Kuw.
22. „ (*Yezocallis*) *kabae* MATS.
23. *Mimocallis* (n. g.) *betuli japonicae* n. sp.
24. *Betacallis* (n. g.) *alnicolens* n. sp.
25. *Arakawana stigmatica* MATS.
26. *Chaitophorus populi* L.
27. „ *aceris* L.
28. „ *japonicus* Ess. et Kuw.
29. „ *salici japonicus* Ess et Kuw.
30. „ *populi sieboldi* n. sp.
31. „ *dorocolus* n. sp.
32. „ *salicicolus* MATS.
33. „ *fraxinicolus* n. sp.
44. „ *viridis* n. sp.

1. *Tinocallis* n. g.

Allied to *Acanthocallis* MATS.

Antennae much slenderer than the anterior tibiae, the first joint much larger and longer than the 2nd, the 3rd with semiring-like sensoria in one row throughout nearly the whole surface, subequal to the 4th and 5th taken together, the 4th, 5th and 6th subequal; anterhinarial scarcely shorter than the postrhinarial. Head with 6 tubercular projections, 2 of them being posited between the antennae. Thorax and abdomen with many tubercular projections, each segment being mostly provided with 4. Primaries much longer than the body, the 2nd oblique, distinctly curved near the base, much nearer to the media than the first oblique; stigma about 8 times as broad as long, at the lower side bow-like curved, the stigmatic vein opens at two-thirds of which, being obsolete in the middle and strongly curved; media obsolete at the base, with 2 furcals, the 2nd furcal branching near the middle of the first. Secondaries with 2 obliques, the first suberect, the 2nd

slanting slightly. Cornicles, cauda and legs as those of *Myzocallis*. Empodial hair somewhat longer than the claws, at the apex broadly conical.

Genotype—*Tinocallis ulmi parvifoliae* MATS.

1. *Tinocallis ulmi parvifoliae* n. sp.

Winged viviparous female—Body fulvous to brown (in alcohol). Antennae at the apices of the 3rd, 4th and 5th joints and at the middle of the 6th, infuscated; the 3rd joint with about 22–26 sensoria; anterhinarial distinctly slenderer than the postrhinarial. Tubercular projections on the head becoming larger towards the occiput; all the tubercles on the abdomen at the apices being infuscated, those on the lateral sides being much larger. Wings hyaline, with a light fulvous tinge, stigma and veins fulvous, stigma at the apex and a nebulous spot near the base darker. Cornicles whitish, at the base broad, nearly twice as long as broad; cauda roundish, scarcely shorter than the lateral lobes of the genital plate, the latter being much constricted at the bases. Legs concolorous with the body, tarsi at the extreme apices somewhat infuscated.

Length—1–2 mm.; antennae 1.4–1.7 mm.; exp. tegm. 4.0–4.4 mm.

Hab.—Honshu (Okayama); many specimens collected by Mr. CHUKICHI

HARUKAWA.

F. P.—*Ulmus parvifoliae*.

Date of Coll.—June 16, 1917.

Nom. Jap.—*Nire-buchiabura*.

2. *Ptychodes quercicola* n. sp.

Winged viviparous female—Body dark fulvous, with fuscous spots; head fuscous, antennae and legs pale fulvous. Antennae longer than the body, with erect long hairs, apices of the 3rd, 4th and 5th joints infuscated, the 6th fuscous; the 3rd joint subequal to the 4th and 5th combined, with about 30 large sensoria all over the surface, the 4th with about 10 and the 5th with about 4; the 6th subequal to 5th, anterhinarial subequal to the postrhinarial, the both strongly imbricated, before the rhinarium with 2 or 3 small sensoria. Rostrum reaches nearly to the middle coxae, apex of the 2nd joint much dilated, the 3rd at the extrem apex somewhat infuscated. Wings hyaline, veins and the neighboring sides

of them fuscous, stigma fuscous, in the middle inclosing a spindle-shaped hyaline spot, sending the stigmatic vein about from the middle. Cornicles somewhat longer than wide, at the base infuscated; cauda longer than wide, fulvous, with many fine long hairs, at the apex rounded. Middle and posterior femora except both ends, and the tarsi, fuscous.

Length—1.3 mm.; antennae 1.5 mm.; exp. tegm. 5.6 mm.

Apterous viviparous female—Body greenish yellow, along the dorsal line with 2 series and along the spiracal line with one series of fuscous spots; between the dorsal and spiracal spots provided with many much smaller fuscous spots, each provided with some long hairs. Antennae pale fulvous, the 3rd joint with 2 or 3 sensoria, the 4th and 5th subequal, with the 3rd at the apex infuscated, the 6th at the middle fuscous, somewhat shorter than the 5th, anterhinarial subequal to the postrhinarial, but being much slenderer. Cornicles about twice as long as wide, at the mouth distinctly enlarged, at the base infuscated. Last abdominal segment long, conically produced, cauda broad and short, fuscous, rounded, lower genital plate much longer than the cauda, at the apex with 2 incisions. Legs concolorous with the body, the middle and posterior femora somewhat infuscated, the tarsi fuscous.

Length—2.4 mm.; antennae 1.1 mm.

Hab.—Hokkaido (Maruyama in Sapporo); many specimens collected by the author.

F. P.—*Quercus dentata* (Kashirwa); gathering on the under surface of the leaves.

Date of Coll.—October 22, 1918.

Nom. Jap.—*Kashirwa-hoshi-buchiabura*.

This species resembles somewhat *P. juglandis* FRISCH in Europe.

3. *Myzocallis naracola* n. sp.

Winged viviparous female—Body yellowish testaceous, antennae and legs paler. Antennae distinctly longer than the body, the 3rd joint subequal to the 4th and 5th taken together, at the apices infuscated, anterhinarial distinctly longer than the postrhinarial, the former at the apex infuscated; the 3rd joint on the outside with a row of 7 roundish sensoria, the 4th to 6th finely imbricated. Wings hyaline, veins pale fulvous, fine, the stigmatic vein not well developed,

stigma at the periphery somewhat suffused; 2nd furcal rather nearer to the base of the first. Cornicles distinctly longer than wide, cauda rounded, with a few fine hairs. Legs rather long, tarsi except the bases infuscated.

Length—1.7 mm.; exp. tegm. 5.8–6 mm.; antennae 2.1 mm.

Nymph—Differs from the winged viviparous female in having much paler body, long spatulate bristles on the frons and over all parts of the body, especially on the lateral sides of the abdomen, small wing-sheaths, which being somewhat suffused at the costa and reaching beyond the posterior coxae, and shorter cornicles and cauda.

Length—1.5 mm.; antennae 1.6 mm.

Hab.—Hokkaido (Sapporo); many specimens collected by the author.

F. P.—*Quercus grosseserrata* (Mizunara).

Date of Coll.—June 17, 1917.

Nom. Jap.—*Nara-buchiabura*.

2. *Mesocallis* n. g.

Allied to *Myzocallis* PASS., but differs from the latter as follows:—

Body slenderer. Rostrum longer, reaching far beyond the first coxae. Antennae much shorter than the body, the 6th joint scarcely shorter than the 5th, antehinarian subequal to the postrhinarian, the 4th, 5th and 6th scarcely imbricated, the 3rd with one row of oblong sensoria along the whole surface. Primaries narrower, stigma lanceolate, not angulated below, lacking any trace of the stigmatic vein. Empodial hairs distinctly longer than the claws.

Genotype—*Myzocallis sawashibae* MATS.

4. *Mesocallis pteleae* n. sp.

Body pale yellowish. Rostrum at the apex infuscated. Antennae except 2 basal joints whitish, the 3rd, apices of the 4th, as well as the postrhinarian of the 6th, fuscous; the 3rd joint with about 13 sensoria. Wings hyaline, veins and stigma pale yellowish, the first and 3rd obliques at the bases infuscated, the 2nd furcal near the middle of the first. Apex of the rostrum, as well as the tarsi, infuscated. Cornicles somewhat longer than wide, with the cauda concolorous with the body, rarely the latter being somewhat infuscated. Empodial hair conical at the apex.

Length—1.2–1.3 mm.; antennae 0.8 mm.; exp. tegm. 3.5–4.5 mm.

Hab.—Hokkaido (Sapporo).

F. P.—*Ptelea trifoliata*.

Date of Coll.—June 23, 1917.

Nom. Jap.—*Kaba-usu-buchiabura*.

5. *Mesocallis fagicola* n. sp.

Much resembles *M. pteleae* MATS., but differs from the latter in the following points:—

Body much smaller, paler in color. Eyes dark brown. Rostrum at the apex not infuscated. Antennae whitish, at the apices of the joints not infuscated, the 3rd joint with about 6 oblong sensoria all over the surface. Wings hyaline, veins very fine, nearly colourless, the first oblique at the base with a fuscous spot, stigma nearly colourless. Cornicles scarcely infuscated, cauda as large as the lateral lobes of the lower genital plate. Legs nearly hyaline, with very light yellowish shade.

Length—0.6 mm.; antennae 0.7 mm.; exp. tegm. 2.6 mm.

Nymph—Pale yellowish, with many spatulate, long, whitish bristles, some of the spatulae at the apices, especially at the posterior part being fuscous; antennae and legs paler than the body; eyes red.

Length—0.8 mm.; antennae 0.5 mm.

Hab.—Hokkaido (Sapporo).

F. P.—*Fagus silvatica* (Buna).

Date of Coll.—July 20, 1917.

Nom. Jap.—*Buna-usu-buchiabura*.

3. *Neocallis* n. g.

Closely allied to *Mesocallis* MATS., but differs from the latter as follows:—

Antennae much robuster, all the joints, except the first two, with oblong sensoria in one row, situated crosswise, those of the 3rd joint being semiring-like and occupying the outer half surface, and extending all over the whole length; anterhinarial scarcely shorter than the postrhinarial, acutely pointed. Wings nearly the same, but the 2nd oblique at the base somewhat nearer to the first than the 3rd; 2nd furcal originates rather nearer to the apex of the first. Abdomen on the lateral sides with tubercular projections; cornicles shorter, cauda globular, larger. Empodial hair at the apex rounded and clavate.

Genotype—*Neocallis carpinicola* MATS.

6. *Neocallis carpinicola* n. sp.

Winged viviparous female—Body yellowish, with a light greenish tinge, head brownish. Antennae grayish, at the base yellow, somewhat longer than the body, as broad as the tibiae, the 3rd joint with about 12, the 4th with about 5, the 5th with 5–6 and the 6th with 2; rhinarium much larger than the sensoria. Head lacks hairs, rostrum reaches beyond the first coxae, at the tip concolorous. Scutellum somewhat infuscated. Wings hyaline, veins pale fulvous, stigma pale grayish, the hind margin of the primaries at the first oblique somewhat infuscated. Abdomen as wide as the thorax, near the apex above the cauda with a fuscous ring-spot, cornicles at the apices subhyaline. Legs concolorous with the body, the hind femora at each apex with a fuscous spot.

Length—0.8 mm.; antennae 0.8 mm.; exp. tegm. 3.6 mm.

Apterous viviparous female—Body greenish yellow, oblong, at the cauda tapering, head in the middle pale reddish brown. Antennae whitish, apex of each joint, except the first 2 infuscated, the 6th at the part of rhinarium enlarged and fusiform, the 3rd somewhat shorter than the 4th and 5th taken together. Frons with 6 spatulate, long, greenish bristles, thorax and abdomen with a few spatulate bristles, which arising from small fuscous tubercular projections. Cornicles very short, cauda large. Legs pale yellowish, tarsi at the apices somewhat infuscated.

Length—1.3 mm.; antennae 0.7 mm.

F. P.—*Carpinus cordata* (Sawashiba).

Hab.—Hokkaido (Sapporo); many specimens collected by Mr. T. OKUNI and the author.

Date of Coll.—October 12, 1918.

Nom. Jap.—*Sawashiba-usu-buchiabura*.

4. *Recticallis* n. g.

Closely allied to *Myzocallis* PASS., but differs from the latter as follows:—

The first antennal joint at the inner side with a warty protuberance, the 3rd joint distinctly shorter than the 5th, anterhinial shorter than the postrhinial. Frons lacks bristly hairs and tubercles. The first and 2nd obliques of the primaries distinctly curved at the bases, the first furcal nearly parallel to the 2nd oblique,

the latter being nearly in right angles to the subscota; stigma broad, near the apex of it obliquely truncated, stigmatic vein at the part of the basal two thirds obsolete. Abdomen along the dorsal axis with a row of long tuberculous projections. Empodial hair somewhat longer than the claws, at the apex obliquely truncated and conically pointed.

Genotype—*Recticallis alni japonicae* MATS.

7. *Recticallis alni japonicae* n. sp.

Winged viviparous female—Body yellowish testaceous, antennae whitish. The 3rd antennal joint near the base with a row of 5 roundish sensoria, apices of the 3rd, 4th and 5th joints, as well as the middle part of the 6th at the rhinarium, infuscated. Anterhinarial at the apex acutely pointed, about $\frac{2}{3}$ length of the post-rhinarial. Wings hyaline, veins testaceous, along the veins somewhat suffused, stigma pale testaceous, at the apex somewhat suffused. Abdomen on each lateral side with a row of fuscous spots; first 5 tuberculous projections larger, some of them at the apices somewhat infuscated. Cornicles whitish, distinctly longer than wide, cauda scarcely larger than the lateral lobes of the lower genital plate. Legs pale testaceous, lacking any spot.

Length—1.5–1.7 mm.; antennae 1.6 mm.; exp. tegm. 2.4 mm.

Nymph—Differs from the winged viviparous female in having somewhat smaller body, small tuberculous projections all over the body, especially on the abdomen, each of which being provided with a brownish spatulate bristle, wing-sheaths, which reaching far beyond the posterior coxae, abdomen, which lacking the lateral rows of fuscous spots, and fuscous tarsi, which becoming paler at the bases.

Length—1.5 mm.; antennae 1.1 mm.

Hab.—Hokkaido (Sapporo), in the Botanical Garden of the College of Agriculture, Hokkaido Imperial University.

F. P.—*Alnus japonica* (*Hannoki*).

Date of Coll.—June 28, 1917; many specimens collected by the author.

Nom. Jap.—*Hanno-usu-buchiabura*.

5. *Hannabura* MATS.

Journ. Coll. Agr. Tohoku. Imp. Univ. Vol. VII, pl. 6, p. 377, 1917.

In my former paper (i. c.) I have described only the apterous viviparous female of this species, so I want here to give the diagnosis of the winged viviparous female.

Winged viviparous female—Antennae much longer than the body, antehinarian subequal to the 3rd joint, the 4th shorter than the 5th, the 3rd subequal to the 4th and 5th combined, with a row of roundish sensoria along the whole surface on the outside. Frons with spatulate bristles. Wings moderate, the 2nd oblique of the primaries at the base much nearer to the first than the 3rd, stigmatic vein slightly curved and indistinct, 3rd oblique parallel to the 2nd; stigma narrow, lanceolate, about 8 times as long as broad. Abdomen with many spatulate long bristles from tuberculous projections; cornicles long, nearly 3 times as long as broad at the base, cauda short and roundish. Legs long, empodial hair straight, nearly the same diameter throughout, at the apex obliquely truncated.

8. *Hannabura alnicola* MATS.

Journ. Coll. Agr. Tohok. Imp. Univ. Vol. VII, pt 6, p. 377, (1917).

Winged viviparous female—Testaceous, antennae and legs much paler. Antennae nearly $1\frac{1}{2}$ times as long as body, the 3rd to 5th joints at the apices, as well as the middle part of the 6th at the rhinarium and the tip of the antehinarian, infuscated; antehinarian nearly $2\frac{1}{2}$ times as long as postrhinarian, the 3rd joint with about 9 sensoria, those of the basal part being larger. Wings hyaline, stigma and veins pale brownish, the latter at the apices somewhat infuscated, the hind margin at the end of the first oblique also infuscated. Legs at the bases of the tibiae and at the apices of the tarsi somewhat infuscated. Cornicles concolorous with the legs.

Length—1.0 mm.; antennae 1.5 mm.; exp. tegm. 4 mm.

Hab.—Hokkaido (Sapporo); apterous females are common, but the winged viviparous females rare.

F. P.—*Alnus japonica* (Hannoki).

Date of Coll.—July 2, 1917.

Nom. Jap.—*Hanno-higenaga-keabura*.

6. *Sappocallis* n. g.

Differs from all the allied genera in having only one forked media.

Rostrum long, reaching to the middle coxae. Ocelli on the sides of vertex oblong. Antennae subequal to the body-length, the 3rd joint scarcely slenderer than the anterior tibiae, subequal to the 4th and 5th taken together, with one row of semiring-like sensoria nearly up to the tip of the joint; anterhinarial distinctly shorter than the postrhinarial, the former at the apex bluntly pointed. Frons lacks bristles, in the middle with a conical protuberance, upon which situated frontal ocellus. Wings moderately long, the 2nd oblique much nearer to the media than the first oblique, media with only one furcal, arising somewhat at the two thirds part of it near the apex, stigmatic vein shorter than the stigma, gently curved, in the middle being obsolete, all the veins not reaching to the hind margin; stigma nearly 5 times as long as broad, at the apex of it obliquely pointed; hind wings broad, with 2 suberect veins. Abdomen broader than the thorax, cornicles very short, nearly as long as high; cauda globular, shorter than the lateral lobes of the genital plate. Legs short, 2 anterior legs shorter than the antennae, the posterior ones being much longer than the others; empodial hairs lanceolate, distinctly shorter than the claws.

Genotype—*Sappocallis ulmicola* n. sp.

9. *Sappocallis ulmicola* n. sp.

Winged viviparous female.—Head, pro- and mesonotum black, the rest of the body pale yellowish. Antennae, except the basal joint which is black, pale yellowish, towards the apex whitish, the 3rd joint with about 14 sensoria, the 4th to 6th finely imbricated, rhinarium at the tip of the 5th roundish and small, rhinarium in the middle of the 6th large, composed of 4 or 5 sensoria. Wings hyaline, with 7 fuscous spots, of which 3 spots, respectively at the bases of the first and 2nd obliques, as well as at the tip of the stigmatic vein, are small, while a spot at the tip of the stigma and 3 spots at the hind margin, the middle one of the latter being smaller, are large and conspicuous. Legs pale yellowish, the posterior femora at the apices and the same tibiae at the bases black.

Length—1.5 mm.; antennae 1.2 mm.; exp. tegm. 4.8 mm.

Hab.—Hokkaido (Sapporo); one female specimen collected by the author.

F. P.—*Ulmus japonica* (Akadamo).

Date of Coll.—June 19, 1917.

Nom. Jap.—*Akadamo-buchiabura*.

7. *Mimocallis* n. g.

Body covered with white woolly secretion, which being especially conspicuous on the legs. Antennae nearly as broad as the anterior tibiae, longer than the wing, the first joint large, nearly twice as long as the 2nd, the 3rd somewhat longer than the 4th, near the basal $\frac{1}{3}$ with one or 2 rows of a few oblong sensoria, the 4th distinctly longer than the 5th, the 6th short, nearly $\frac{1}{2}$ length of the 5th, anterrhinarial somewhat shorter than the postrhinarial. Ocelli roundish. Rostrum reaches to the middle coxae. Prothorax much longer than the head. Primaries long, stigma long-lanceolate, which being at the base of the stigmatic vein angulated, the latter broadly curved, all the obliques obsolete at the bases, the 2nd oblique at the base much nearer to the first than the 3rd (media), first furcal very long, longer than the first oblique, 2nd furcal distinctly nearer to the tip than the base of the first; all the veins at each apex with a fuscous spot; secondaries with 2 long obliques. Abdomen much longer than the head and thorax taken together. Cornicles distinctly longer than broad, at the mouth-part somewhat enlarged, cauda rounded. Legs long, femora quite thickened; empodial hairs very large, longer than the claws, oblong, at the apices broadly conical.

Genotype—*Mimocallis betuli japonicae* MATS.

10. *Mimocallis betuli japonicae* n. sp.

Winged viviparous female—Body greenish yellow. Antennae nearly twice as long as the body, yellowish, apices of the 2nd and 4th, as well as the 5th and 6th, fuscous, the 3rd joint with about 20–24 oblong sensoria of different sizes, anterrhinarial much slenderer than the postrhinarial; all the joints with very fine rigid hairs. Rostrum at the extreme apex fuscous. Mesonotum with 2 oblong brownish spots, placed longitudinally, mesosternum fuscous. Wings hyaline, veins and stigma fulvous, all the veins at each apex with a fuscous spot. Cornicles and cauda concolorous with the body; near the anus with a fuscous transverse line. Legs concolorous with the body, apices of the femora, both ends of the tibiae, and the tarsi, fuscous.

Length—2.7 mm.; antennae 5 mm.; exp. tegm. 11 mm.

Hab.—Hokkaido (Sapporo); many specimens collected by the author.

F. P.—*Betula japonica* (Kaba).

Date of Coll.—Aug. 14, 1918.

Nom. Jap.—*Kaba-higenaga-buchiabura*.

8. *Betacallis* n. g.

Antennae much longer than the body, becoming very narrow towards the apex; the first joint large, twice as long as the 2nd, the 3rd about as broad as the anterior tibiae, with one row of oblong sensoria at the basal two thirds of it, the 4th much slenderer and shorter than the 3rd, distinctly longer than the 5th, the latter being still more slenderer, the 6th subequal to the 5th, anterhinarial much longer than the postrhinarial. Rostrum reaches nearly to the middle coxae. Head short, nearly the length of the pronotum. Primaries shorter than the antennae, stigma long-lanceolate, stigmatic vein strongly curved, first oblique robust, suberect, 2nd and 3rd obliques nearly parallel, the 2nd at the base somewhat nearer to the 3rd than the first; furcals long, 2nd furcal branching at about $1/3$ part of the first near the base. Secondaries rather small, with 2 obliques, the both being obsolete at the bases. Abdomen oval; cornicles long, nearly 3 times as broad, in the middle distinctly constricted, at the mouth somewhat trumpet-shaped; cauda long, nearly twice as long as broad, near the base being constricted, genital lobe large and roundish. Legs long, with long hairs, all the femora somewhat thickened; empodial hairs oval, nearly as long as the claws. This genus resembles somewhat *Euceraphis* Ess.

Genotype—*Betacallis alnicolens* MATS.

11. *Betacallis alnicolens* n. sp.

Winged viviparous female—Body oblong, fulvous, abdomen at the apical half somewhat suffused. Frons with 6 bristly hairs. Antennae whitish, the basal 2 joints concolorous with the body, the 3rd at the basal two thirds fuscous, above with about 25 sensoria, at the apical one third whitish; the 3rd and 4th at the apices, and the 6th at the middle, infuscated; anterhinarial about $1\frac{1}{2}$ times as long as the postrhinarial. Rostrum at the extreme apex infuscated. Pronotum on each side with a fuscous stripe. Wings hyaline, with a light fulvous tinge, primaries with fuscous first and 2nd obliques, media and stigmatic vein fulvous, the latter at the base and stigma at the apex infuscated. Cornicles fuscous, cauda and genital plate yellowish. Legs concolorous with the body, a spot at the apex of the hind femur, as well as the tibiae and tarsi, fuscous.

Length—3.5 mm.; antennae 5.5 mm.; exp. tegm. 11 mm.

Nymph—Body pale fulvous, spindle-shaped, at the cauda conically pointed. Antennae distinctly longer than the body, all the joints, except the first 2 joints and 6th, and the postrhinarial at the apices, infuscated; the 3rd joint lacking sensoria, subequal to the 4th; anterhinarial about twice as long as the postrhinarial. Frons with many, thorax and abdomen with a few spatulate bristly hairs. Wing-sheaths reach to the 2nd abdominal segment, and of a pale color. Cornicles at the apices fuscous, strongly dilated at the mouth, cauda large and semicircular. Legs concolorous with the body, tibiae at the ends, and the tarsi, infuscated.

Length—2.7–3.5 mm.; antennae 4–4.3 mm.

Dab.—Hokkaido (Sapporo).

F. P.—*Alnus japonica* (Hannoki).

Date of Coll.—July 2, 1917.

Nom. Jap.—*Hanno-higenaga-buchiabura*.

12. *Chaitophorus viridis* n. sp.

Winged viviparous female—Body green, in the fluid of Berlese (Preparat) becoming greenish fulvous. Antennae infuscated, at the basal part greenish fulvous, with long bristly hairs, the 3rd joint with about 12 roundish sensoria; anterhinarial about $3\frac{1}{2}$ times as long as the postrhinarial. Wings hyaline, with very light fulvous tinge, stigma and veins fulvous. Notum and dorsum brownish, mesonotum in the middle with a longitudinal paler line; abdomen at the cornicles enlarged, cornicles nearly thrice as long as broad, at the base distinctly inflated; cauda short and rounded. Legs concolorous with the body, apices of the tibiae, and the tarsi, fuscous, the hind femur at the apex somewhat suffused.

Length—2.2 mm.; antennae 3 mm.; exp. tegm. 10 mm.

Nymph—Differs from the winged viviparous female as follows:—

Antennae somewhat shorter, anterhinarial about 5 times as long as the postrhinarial, the 6th scarcely longer than the 3rd, wing-sheaths, which reach to the 3rd abdominal segment, distinctly shorter, cornicles and cauda infuscated; notum and dorsum fuscous, the latter at the lateral sides being paler.

Length—1.8–2.5 mm.; antennae 2.5 mm.

Hab.—Hokkaido (Sapporo); many specimens collected by the author.

F. P.—*Acer pictum* (Itaya).

Date of Coll.—June 5, 1917.

Nom. Jap.—*Itaya-midori-keabura*.

13. *Chaitophorus fraxinicolus* n. sp.

Much resembles *C. viridis* MATS., but differs from the latter as follows:—

Head and pronotum somewhat infuscated. Antennae greenish, the 3rd joint with about 7 small indistinct sensoria; anterhinarial nearly twice as long as the postrhinarial. Thorax greenish, dorsum concolorous, abdomen dark brown. Cornicles fuscous, and at the bases much more enlarged.

Length—3.4 mm.; antennae 3.5 mm.; exp. tegm. 10.5 mm.; cornicles 0.25 mm.

Nymph—Differs from those of *C. viridis* MATS. as follows:—

The 3rd antennal joint somewhat shorter than the 6th, anterhinarial about 4 times as long as the postrhinarial. Abdomen mostly infuscated.

Length—2.6 mm.: antennae 2.6 mm.

Hab.—Hokkaido (Sapporo); many specimens collected by the author.

F. P.—*Fraxinus longicuspis* (Aodamo).

Date of Coll.—June 3, 1917.

Nom. Jap.—*Aodamo-keabura*.

14. *Chaitophorus populi sieboldi* n. sp.

Winged viviparous female—Body dark brown to fuscous, abdomen on the sides olivaceous. Antennae fuscous, longer than wide, with a few rigid hairs, the 3rd joint fulvous, somewhat shorter than the 4th and 5th combined, the latter two subequal; anterhinarial about twice as long as the postrhinarial; the 3rd joint with about 6–10 sensoria on the outer side. Frons with a few fine hairs. Wings subhyaline, stigma fuscous, fusiform, nearly thrice as long as broad, stigmatic vein opening at the middle of it; veins fulvous. Cornicles short, fulvous, at the bases fuscous; cauda roundish, pale fulvous. Legs fulvous, 2 posterior femora, apices of the tibiae, and the tarsi, fuscous.

Length—1.0 mm.; antennae 1.2 mm.; exp. tegm. 4.5 mm.

Apterous viviparous female—Differs from the winged viviparous female as follows:—

Body above mostly with a pale fulvous stripe. Antennae somewhat shorter

than the body, at the extreme base and at the apical one third fuscous, the 4th joint distinctly longer than the 5th, the 3rd scarcely longer than the 4th and 5th combined, the 6th subequal to the 4th, lacking distinct sensoria. Legs fulvous, posterior femora, bases of the same tibiae, as well as the tarsi, fuscous.

Length—1.2 mm.; antennae 1.0 mm.

Hab.—Hokkaido (Koshimizu in Kitami); many specimens collected by the author.

F. P.—*Populus sieboldi* (Hakoyanagi), attacking the shoot.

Date of Coll.—Aug. 15, 1917.

Nom. Jap.—*Doro-shimme-keabura*.

15. *Chaitophorus dorocolus* n. sp.

Winged viviparous female—Much resembles *C. populi sieboldi* MATS., but differs from the latter in the following points:—

Antennae with much less hairs, the 3rd, 4th and 5th joints distinctly shorter, antehinarian nearly $2\frac{1}{2}$ times as long as the postrhinarian, the 3rd joint with about 7 large indistinct sensoria. Wings narrower, veins much robuster, stigma nearly 4 times as long as broad, stigmatic vein opening at rather nearer to the apex. Abdomen narrower, cornicles longer, fuscous, at the base paler.

Length—0.9–1.2 mm.; antennae 1.0 mm.; exp. tegm. 4–4.4 mm.

Apterous viviparous female—Body much narrower; antennae at the basal half fulvous; thorax and abdomen above lacking fulvous stripe.

Length—1.3 mm.; antennae 0.9 mm.

Hab.—Hokkaido (Teshikaga in Kushiro); many specimens collected by the author.

F. P.—*Populus sieboldi* (Hakoyanagi), on the under surface of the leaves, covered with woolly secretion.

Date of Coll.—Aug. 11, 1917.

Nom. Jap.—*Doro-wata-keabura*.

This species resembles also *C. japonica* Ess. et Kuw., but differs from the latter especially in the relation of the ante- and postrhinarian.

摘 要

余は曩に東北帝國大學紀要第七卷第六號(1917)に於て日本産蚜蟲を發表し其内に斑蚜蟲亞科に屬する蚜蟲十五種を挙げたり、其後米人エツシヒ及び桑名伊之吉氏共著の論文出で其内に八種の同亞科に係るものあるを見たり、余は昨年及び本年に在りて更に多數の種類を得たれば爰に發表することゝせり、本邦に三十四種ありて其内十四種は新種に屬し七屬は新屬に係るものなり。

今次に本邦に産する斑蚜蟲亞科の種名及び被害樹を挙げれば次の如し。

1. Yamatocallis hirayamae MATS. ひらやまあぶら	とどまつ
2. Nippocallis kuricola MATS. くりまだらあぶら	くり。なら。くのぎ
3. Acanthocallis quercicola MATS. <i>Myzocallis macrotuberculata</i> Ess. et Kuw. ならとげあぶら	なら。かしは
4. Tinocallis (新屬) ulmi parvifoliae MATS. (n. sp.) にれぶちあぶら	はるにれ
5. Ptychodes quercicola MATS. (n. sp.) かしはほしぶちあぶら	か し は
6. Myzocallis kashiwae MATS. かしはぶちあぶら	か し は
7. „ sasae MATS. ささぶちあぶら	さ さ
8. „ capitata Ess. et Kuw. くぬぎぶちあぶら	く ぬ ぎ
9. „ naracola MATS. (n. sp.) ならぶちあぶら	みつなら
10. „ castaneae BUCK. (?) くりぶちあぶら	く り
11. Recticallis (新屬)alni japonicae MATS. (n. sp.) はんのうすぶちあぶら	はんのき
12. Mesocallis (新屬) sawashibae MATS. さはしばぶちあぶら	さはしば
13. „ pteleae MATS. (n. sp.) かばうすぶちあぶら	せいようかば
14. „ fagicola MATS. (n. sp.) ぶなうすぶちあぶら	ぶ な
15. Neocallis (新屬) carpinicola MATS. (n. sp.) さはしばふすぶちあぶら	はしばみ
16. Calaphis magnoliae Ess. et Kuw. こぶしぶちあぶら	こ ぶ し

17.	<i>Chromaphis celticolens</i> Ess. et Kuw. えのきぶちあぶら	えのき
18.	<i>Takecallis bambusae</i> MATS. たけひげながぶちあぶら	さ さ
19.	<i>Hannabura alnicola</i> MATS. はんのひげながけあぶら	はんのき
20.	<i>Sappocallis</i> (新属) <i>ulmicola</i> MATS. (n. sp.) あかだもぶちあぶら	あかだも
21.	<i>Euceraphis</i> (<i>Yezocallis</i>) <i>alniaria</i> MATS. = <i>japonica</i> Ess. et Kuw. はんのぶちあぶら	はんのき
22.	„ (<i>Yezocallis</i>) <i>kabae</i> MATS. かはぶちあぶら	か ば
23.	<i>Mimocallis</i> (新属) <i>betuli japonicae</i> MATS. (n. sp.) かはひげながぶちあぶら	か ば
24.	<i>Betacallis</i> (新属) <i>alnicolens</i> MATS. (n. sp.) はんのひげながぶちあぶら	はんのき
25.	<i>Arakawana stigmatica</i> MATS. あらかはあぶら	か し は
26.	<i>Chaitophorus populi</i> L. どろけあぶら	どろ。やなぎ
27.	„ <i>aceris</i> L. いたやけあぶら	いたや
28.	„ <i>japonicus</i> Ess. et Kuw. こいたやけあぶら	いたや
29.	„ <i>salici japonicus</i> Ess. et Kuw. こうりやなぎけあぶら	こうりやなぎ
30.	„ <i>populi sieboldi</i> MATS. (n. sp.) どろしんめけあぶら	はこやなぎ
31.	„ <i>dorocolus</i> MATS. (n. sp.) どろわたけあぶら	はこやなぎ
32.	„ <i>salicicolus</i> MATS. やなぎけあぶら	や な ぎ
33.	„ <i>fraxinicolus</i> MATS. (n. sp.) あをだもけあぶら	あなだも
34.	„ <i>viridis</i> MATS. (n. sp.) いたやみどりけあぶら	いたや

(Oct. 25, 1918).