

New Central European *Aphididae*.

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1. *Neopterocomma* gen. nov., *N. asiphum* sp. nov.

Description: Resembling *Pterocomma* in general appearance and structure. Body broad, antennae short, of 6 segments; proc. term. longer than base of VIth segment. Siphunculi extremely short, atrophied. Cauda rounded, very hairy. Body much less hairy than in *Pterocomma*, with 2 spinal tubercles on each segment and small lateral tubercles. Head with two dorsal tubercles. Rostrum normal. 1st Tarsal segment of all legs with 5 hairs.

Type: *Neopterocomma asiphum* sp. nov.

N. asiphum sp. nov.

Description: Apt. viv. female.

Body broadly oval, with rather few dorsal hairs and spinal sclerites. In each segment on the spinal sclerite a tubercle and on I—IVth abd. segments one hair-, on the Vth—VIth hairs per sclerite. VIIIth segment with 8—10 hairs only, in two groups of 4—5 (in *Pterocomma* 12—16 hairs). Antennae of 6 segments, with rather short thin hairs (\pm equal to diameter of IIIrd segment in length); IIIrd segment with 0—4 small, inconspicuous rhinaria in the middle. Rostrum reaching the middle of abdomen, last segment $\frac{1}{10}$ longer than 2nd joint of hind tarsi (without the claws). Legs rather short, very hairy, more or less sclerotic (in macerated specimens brown), tibiae of hind legs with some small, but very distinct olfactory organs (sensoria). Siphunculi very short, as wide as long, without flange, porus distinct. Cauda as in *Anuraphis*, very hairy. Genital plate not cleft or divided, with 3 rudimentary gonapophyses.

Colour unknown.

Measurements: Length of body: 3.05 mm.

" " ant.: 1.23 "

" " siph: 0.063 "

" " cau.: 0.16 "

Prop. ant. segments: $\frac{100}{\text{III}}$: $\frac{80}{\text{IV}}$: $\frac{54}{\text{V}}$: $\frac{38 + 52}{\text{VI}}$

rhin: 0 and 1.

Habitat: on *Salix* sp., Berlin-Lichterfelde, Germany, 27—VII—'32, (R. Korschefsky), apt. only.

Notes: This species looks very much like an *Anuraphis* with atrophied siphunculi. The occurrence of sensoria on hind tibiae in a viviparous female is rather abnormal, and I had some doubt about the viviparity, though all individuals had embryos and an undivided genital plate.

Cotypes: in the Deutsches Entomologisches Institut, Berlin-Dahlem, and in the author's collection.

2. *Doralis setacea* sp. nov.

Description: Apt. viv. female.

Body usually without sclerotic areas; abdomen with lateral tubercles on segments I—VII. Body with a few very long, thin hairs. Antennae with very long hairs, which are up to 3 times as long as diameter of IIIrd segment. Proportion of segments see below. Siphunculi $\frac{1}{10}$ — $\frac{1}{9}$ of body's length, equal to cauda or $\frac{1}{9}$ longer, nearly smooth, with small flange. Cauda triangular, blunt, with \pm 20 hairs.

Colour unknown.

Measurements: Length of body: 1.60 mm.

" " ant.: 1.00 "

" " siph.: 0.16 "

" " cau.: 0.16 "

Prop. of ant. segments: $\frac{100}{III} : \frac{56}{IV} : \frac{56}{V} : \frac{44+132}{VI}$

Al. viv. female.

Abdomen with lateral sclerites, on the hind margin of which are very large and long tubercles; distinct postsiphuncular sclerites present. Antennae with 17—24 rhinaria on IIIrd, 4—7 on IVth, 0—2 on Vth segment. Wing venation quite normal, media forked twice, second fork never closer to margin of wing than normal.

Colour unknown.

Measurements: Length of body: 1.73 mm.

" " ant.: 1.23 "

" " siph.: 0.18 "

" " cau.: 0.15 "

Prop. ant. segments: $\frac{100}{III} : \frac{64}{IV} : \frac{64}{V} : \frac{41+132}{VI}$

Rhinaria on III: 22, 23, on IV 4, 7, on V 1, 0.

Habitat: *Sorbus aria*, Mittenwald, Bavaria, Germany, July 1933, (H. John), 6 apterae, 6 alatae.

Notes: Though some features of this species faintly resemble *Rhopalosiphum*, the structure of the head and 1st ant. segment are as in *Doralis*, in which genus I place it, as long as it has not been proven to migrate to *Gramineae*.

Cotypes: in the Deutsches Entomologisches Institut, Berlin-Dahlem, and in the author's collection.

3. *Chaitophorus parvus* sp. nov.

Description: Apt. viv. female.

Body very small, oval, covered with very long bristly hairs, which

have a normal apex. Tergum completely sclerotic, as a rule without a distinct membranous area around the siphunculi. Siphunculi without the hexagonal reticulation of *Ch. salictis* Schrk. IIIrd ant. segm. with 3—5 hairs only. Cauda knobbed, with 4 hairs.

Colour: black.

Measurements: Length of body: 1.75 mm.

 " " ant.: 0.61 "

 " " siph.: 0.044 "

Prop. of ant. segments: $\frac{100}{III} : \frac{52}{IV} : \frac{52}{V} : \frac{52+104}{VI}$

Al. viv. female.

Abdomen with narrow sclerotic crossbars on each segment. IIIrd ant. segment with 3—6 rhin., IVth with 1 rhin.

Colour: unknown.

Measurements: Length of body: 1.44 mm.

 " " ant.: 0.78 "

 " " siph.: 0.045 "

Prop. of ant. segments: $\frac{100}{III} : \frac{56}{IV} : \frac{56}{V} : \frac{41+87}{VI}$

Rhin. on III: 4, (?); on IV 1, (?)

Habitat: *Salix repens*, Funkenhagen (Pommern), Germany, 6—VIII —'33 (R. Korschevsky), apt. and al. viv.

Notes: Greatly resembles *Ch. salictis* Schrk., but smaller, with less hairs on IIIrd ant. segment (± 13 in *salictis*) and siphunculi without reticulation, though there is some structure resembling it present. The membranous, transparent area around the base of the siphunculi, which is typical for *Ch. salictis*, is either completely absent or very indistinct.

Cotypes: in the Deutsches Entomologisches Institut, Berlin-Dahlem, and in the author's collection.

4. *Dactynotus similis* sp. nov.

Description: Apt. viv. female.

Body spindle shaped, with rather thick and short, faintly knobbed hairs, which are placed on distinct scleroites; the scleroites of spinal hairs never merged into a sclerotic plate with several hairs. Prosiphuncular sclerite absent, postsiphuncular sclerite well developed. Frontal tubercles well developed. Antennae $1-1\frac{1}{10}$ length of body, black, with base of IIIrd segment brown; IIIrd segment with 38—62 rhinaria covering $\frac{2}{3}-\frac{4}{5}$ of its total length. Antennal hairs $\frac{2}{3}-\frac{5}{6}$ of diameter of IIIrd segment. Siphunculi $\pm \frac{1}{4}$ of length of body, sclerotic, black, apical $\frac{1}{6}-\frac{2}{9}$ part with distinct hexagonal reticulation. Cauda very slender, sclerotic, black, about $\frac{5}{9}-\frac{6}{9}$ of length of siphunculi, with 13—17

hairs. Last rostral segment very slender, about $1\frac{1}{3}$ times as long as 2nd joint of hind tarsi (without claws). I st tarsal joints of all legs with 5 hairs.

Colour: rich chestnut brown, with black antennae, siphunculi and cauda; legs yellow to yellow-brown with distal $\frac{2}{3}$ of femora and apices of tibiae black.

Measurements: Length of body: 3.10 mm.

 " " ant.: 3.25 "

 " " siph.: 0.80 "

 " " cau.: 0.56 "

Prop. ant. segments: $\frac{100}{III} : \frac{64}{IV} : \frac{56}{V} : \frac{17+106}{VI}$

Rhin. on III: 38, 46.

Al. viv. female.

Much like apterae, spinal and pleural scleroites less distinct, distinct marginal sclerites present. IIIrd ant. seg. with \pm 60—85 rhinaria over whole length, wings normal.

Colour: as in apt. viv. fem., thorax black.

Measurements: Length of body: 3.15 mm.

 " " ant.: 3.08 "

 " " siph.: 0.71 "

 " " cau.: 0.45 "

Prop. ant. segments: $\frac{100}{III} : \frac{70}{IV} : \frac{65}{V} : \frac{18+125}{VI}$

Rhin. on III: 70, 74.

Habitat: *Erigeron acer*, Wageningen and Bennekom, Holland, June—July 1933 in very dense colonies along the flowerstalks (D. H. R. L.), Bennekom, June—July 1934 (D. H. R. L.) quite common, *Erigeron* sp. (prob. *acer*), Grunewald near Berlin, Germany, 13—VII—'33 (R. Korschefsky).

Notes: Resembles *D. (Uromelan) nigrocampanulae* Theob., *D. (U.) campanulae* Kalt. and *D. (U.) jaceae* L, but is different from the first and the second species in the relation between lengths of cauda and siphunculi and from the last in the distribution of rhinaria in apterae.

Cotypes: In the author's collection (Bennekom, VI—'33).

5. *Acyrtosiphon scariolae* Nevsky.

R. Korschefsky collected this species from *Lactuca scariola*, Grunewald near Berlin, Germany, 13. VII. 1933. I consider „*Macrosiphon lactucarius* Börner as a synonym of this species.