A revision of the genus Paratoxopoda DUDA (Diptera, Sepsidae)

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Abstract


Key-words: Diptera; Sepsidae; Paratoxopoda; Revision.

The first two species now recognized as belonging to the genus Paratoxopoda were described by Walker (1849). It was not until 1920 that a third species was described by Bezzi. In all there are 27 described species (Zuska, 1980). There include two species originally described as species of Sepsis Fallén (Walker, 1849) three species as Toxopoda (Bezzi, 1920; Vanschuytbroeck, 1961, 1963a) one species as Afrotoxopoda (Vanschuytbroeck, 1961), and the rest as Paratoxopoda (Duda, 1926a, 1926b; Vanschuytbroeck, 1961, 1963a, 1963b; Soós, 1964).

No information is available on the biology and ecology of any Paratoxopoda species.

The following abbreviations are used for the museums and collections where material is located:

AMNH – American Museum of Natural History, New York
BMNH – British Museum (Natural History), London
IRSNB – Institut Royal des Sciences Naturelles de Belgique, Bruxelles
MCSN – Museo Civico di Storia Naturale, Milano
MNHU – Museum für Naturkunde an der Humboldt-Universität, Berlin
MRAC – Musée Royal de l’Afrique Centrale, Tervuren
NHMZ – National History Museum, Bulawayo
TAU – Tel-Aviv University, Tel-Aviv
USNM – United States National Museum, Washington
ZMUM – Zoological Museum, Moscow State University, Moscow

Commonly used geographic names are abbreviated as follows:
P.N.A. – Albert National Park
P.N.G. – Garamba National Park
P.N.U. – Upemba National Park


(*) Nemopoda nuceria Séguy, 1933, remains in the genus Toxopoda (Ozerov, 1991).
Genus *Paratoxopoda* Duda, 1926


**Description:**
Medium-sized species, usually with a dark coloured body. Head somewhat flattened dorsoventrally. Frons smooth, with a shallow longitudinal furrow, shining, weakly narrowed below. The length of the frons equal to or rather greater than its width. Face matt, delicately shagreened, weakly protruding in central part. Lower edge of face protruding forwards beyond the eyes, but no further than profrons. Gena with row of genal setae. 2 or 3 vibrissae.

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**Key to species of *Paratoxopoda***

1. Scutum with one pair of dorsocentral setae ................................. 2

2. Male: middle and hind trochanters with long dense hairs which are as long as the hairs on posterodorsal surface of middle femora. Gena with dense hairs besides the row of genal setae (fig. 21). Posterolateral margin of abdominal tergite 5, epandrium and surstylus as in figs. 22-24 .............................. 7 *P. barbata* sp.n.

3. Middle tibia with 1-2 setae on ventral surface. Middle femur without anteroventral and posteroventral setae ........................................... 3

4. Middle tibia with one seta on ventral surface .... 5

5. Width of gena less than the width of flagellomere 1. Surstylus broadened axe-like at apex (fig. 46). Posterolateral margin of abdominal tergite 5, epandrium and surstylus as in figs. 55-57 .......................... 19. *P. saegeri* VANSCHUYTBROECK

6. Epandrium and surstylus as in figs. 13, 14. Length of lower fork of surstylus approximately equal to width of base of surstylus (abbreviations as in fig. 61). Posterolateral margin of abdominal tergite 5 as in fig. 12 .............................. 4. *P. angolica* sp.n.

Length of lower fork of surstylus 1.5-2.0 times as long as width of base of surstylus (figs. 60, 61, 79) .............................. 7
7. Epandrium and surstylus as in figs. 79, 80. Width of lower fork of surstylus less than quarter of its length. Posterolateral margin of abdominal tergite 5 as in fig. 78 .......................... 25. P. zuskai sp.n.

Epandrium and surstylus as in figs. 59-61. Width of lower fork of surstylus more than quarter of its length. Posterolateral margin of abdominal tergite 5 as in fig. 58 .......................... 20. P. similis sp.n.


Mesonotum and mesopleuron black. Apex of wing not milky. Male: first and second tarsomerers of fore leg without long hairs on dorsal surface .............................................. 9

9. Notopleuron with only the posterior seta, but if the anterior seta is present then it is very short, fine and hair-like. Male: posterolateral margin of abdominal tergite 5 without setae and hairs. Epandrium and surstylus as in figs. 40, 41 .......................... 13. P. glabra sp.n.

Notopleuron always with two setae; the anterior one may be shorter, but not weaker, than the posterior one .............................. 10

10. Fore coxa with 2-3 short anterodorsal setae near apex (figs. 73, 74). Male: fore coxa with long, dense, curly hairs (fig. 74); posterolateral margin of abdominal tergite 5, epandrium and surstylus as in figs. 75-77. Female: hairs on fore coxa straight, shorter than in male (fig. 73) ...................... 24. P. villicoxa DUDA

Fore coxa of both sexes only rarely with very short, decumbent hairs, and with 0-1 anterodorsal setae near apex ........................... 11

11. Fore coxa with a strong anteroventral preapical seta .......................................... 13

Fore coxa without an anteroventral seta, or with a very short, weak, hair-like seta ........ 12


Hind tibia with one anteroventral seta at middle. Frons not projecting forwards beyond eyes. Postocellar setae shifted noticeably forwards and not situated on a line joining posterior margin of eyes (fig. 68). Orbital seta short, but strong. Wing hyaline. Male: posterolateral margin of abdominal tergite 5, epandrium and surstylus as in figs. 18-20 .......................... 6. P. asita VANSCHUYTBROECK (female unknown)

13. Middle tibia with 0-1 ventral seta .................. 14

Middle tibia with 2-4 ventral setae .................. 17

14. All femora near base of ventral surface with a long straight hair or with a short straight seta (figs. 1,8) .......................... 15

All femora ....................................... 16

15. All femora at base of ventral surface with one hair (fig. 1). Among the circle of setae at tip of middle tibia there are very strong posteroventral and anteroventral setae. Ventral surface of hind trochanter only with short erect hairs. Male: posterolateral margin of abdominal tergite 5, epandrium and surstylus as in figs. 2-4 .......................... 1. P. akuminabili VANSCHUYTBROECK

All femora at base of ventral surface with one seta (fig. 8). All seta at tip of middle tibia approximately equal in length. Ventral surface of hind trochanter with short erect hairs and with several spinules. Male: posterolateral margin of abdominal tergite 5, epandrium and surstylus as in figs. 9, 10 .......................... 3. P. amonane VANSCHUYTBROECK

16. Hind tibia with three anteroventral setae. Notopleuron bare or with several hairs which are obviously shorter than hairs on anepisternum. Male: posterolateral margin of abdominal tergite 5, epandrium and surstylus as in figs. 65-67 .......................... 22. P. tenebrica sp.n.
Hind tibia with one anteroventral seta at middle. Notopleuron as a rule with long dense hairs similar to those on anepisternum. Male: posterolateral margin of abdominal tergite 5, epandrium and surstylus as in figs. 27-29

......................... 9. *P. depilis* (WALKER)

17. Male: fore tarsus yellow; tip of fore tibia expanded club-like, on posterior side with two groups of strongly flattened setae (fig. 33); epandrium and surstylus as in figs. 34, 35. Female: first tarsomere and basal half of second tarsomere of fore leg dark brown; apical half of second tarsomere, third, fourth and fifth tarsomeres white

........................................ 11. *P. flavitarsis* DUDA

Tarsomeres of fore leg in both sexes black. Male fore tibia without flattened setae at tip... 18

18. Male: surstylus on inner surface with a short broad projection near base (figs. 16, 17). Posterolateral margin of abdominal tergite 5 with 3-4 short and stout setae (fig. 15)

........................................ 5. *P. asaba* VANSCHUYTBROECK

Male: surstylus on inner surface without a broad projection near base (figs. 7, 25, 31, 42, 48, 63, 71). Setae on posterolateral margin of abdominal tergite 5 as a rule longer and thinner (figs. 5, 30, 47, 62, 70) ........................................ 19

19. Surstylus short and strongly compressed laterally in apical part (figs. 26, 49) ......... 20

Surstylus cylindrical and more slender (figs. 32, 43, 64, 72) ............................................. 21

20. Surstylus on inner surface with small narrow projection at middle (fig. 25). Upper part of surstylus oval in lateral view (fig. 26)

........................................ 8. *P. crassiforceps* DUDA (female unknown)

Surstylus on inner surface without a projection (fig. 48). Upper part of surstylus round in lateral view (fig. 49)......... 16. *P. magna* sp.n. (female unknown)

21. Upper part of surstylus curved dorsally almost at a right-angle (fig. 64). Anterior notopleural seta half as long as posterior one. Abdomen with a strong violet tinge. Posterolateral margin of abdominal tergite 5 as in fig. 62

........................................ 21. *P. straeleni* VANSCHUYTBROECK (female unknown)

Upper part of surstylus straight, not bent dorsally (figs. 6, 32, 43, 72). As a rule, anterior notopleural seta only slightly shorter than posterior one ................. 22

22. Surstylus very thin and long (figs. 31, 32, 71, 72) ........................................ 23

Surstylus more stout and short (figs. 6, 7, 42, 43) ........................................ 24

23. Surstylus, distally of the sharp tubercle, with the inner surface straight; tip of surstylus rather narrowed (figs. 31, 32). Posterolateral margin of abdominal tergite 5 as in fig. 30

........................................ 10. *P. dudai* sp.n.

Surstylus, distally of the sharp tubercle, with the inner surface slightly concave; tip of surstylus rounded (figs. 71, 72). Posterolateral margin of abdominal tergite 5 as in fig. 70

........................................ 23. *P. tricolor* (WALKER)

24. Tip of surstylus laterally flattened, with spines along edge (figs. 6, 7). Fore femora with weakly distinct rows of anteroventral and posterolateral setae

......... 2. *P. akuminamoya* VANSCHUYTBROECK

Tip of surstylus not flattened, with a small tubercle on the inside (figs. 42, 43). Fore femora with distinct rows of short anteroventral and posterolateral setae

........................................ 14. *P. intermedia* DUDA
**1. Paratoxopoda akuminambili**  
*VANSCHUYTBROECK, 1961*  
Figs. 1-4

*Paratoxopoda akuminambili* *VANSCHUYTBROECK, 1961*: 62

**Diagnosis:**
Two dorsocentral setae. Base of all femora ventrally with one long straight hair (fig. 1). Middle tibia with 0-1 ventral setae in apical quarter. Among the circle of setae at tip of middle tibia there are very strong posteroventral and anteroventral setae. Hind tibia with one anteroventral seta at middle. Posterolateral margin of abdominal tergite 5 of male with several short setae and fine hairs (fig. 2). Surstylus thin and stick-like, with a short dorsal projection near base inside (figs. 3, 4).

**Redescription:**
Frons, face and gena dark brown. Length of frons approximately equal to its width. Width of gena approximately equal to width of flagellomere 1. Occiput black, shining. Antenna dark brown. Length of flagellomere 1 2.5 times as long as wide.

Mesonotum and lateral pleural sclerites black, shining, with a violet tinge. Proepimeron above fore coxa with 2-3 short hairs. Notopleuron with sparse short hairs, which are shorter than those on anepisternum. Scutellum velvety-black. Chaetotaxy of thorax: 2 npl, 1 spal, 1 pal, 2 dc, 1 anepsi, 1 ap scit.

Legs black. Fore coxa with strong anterodorsal and anteroventral setae near apex. All femora of male with a long straight hair on ventral surface near base. Female also with a similar but shorter hair. Posterior surface of middle trochanter bare. Middle tibia with one ventral seta in apical quarter, absent in several specimens. With very strong posteroventral and anteroventral setae in the circle of setae at tip of middle tibia. Ventral surface of hind trochanter with short erect hairs. Hind tibia with one anteroventral seta at middle. Wing hyaline, with pale brown veins. Upper and lower calypters and their margins blackish. Haltere yellowish. Abdomen black, shining, with a violet tinge. Male: posterolateral margin of tergite 5 with several short setae and fine hairs (fig. 2). Surstylus thin, stick-like, near base of inner surface with a short dorsal projection (figs. 3, 4). Length of body: 3.7-5.5 mm. Length of wing: 3.0-4.1 mm.

**Distribution:**
Zaire.

**Specimens examined:**

OTHER SPECIMENS: Zaire: 21 males, 3 females P.N.G., II/fd/17, 5.IX.1951, H. DE SAEGER, 2379 (IRSNB), 4 males, P.N.G., 1/o/2, 6.XI.1950, H. DE SAEGER, 936 (MRAC); male, P.N.G. Mabanga, 23.IX.1952, H. DE SAEGER, 4069 (MRAC); male, P.N.G., Mpaza/9, 23.1.1952, H. DE SAEGER, 3076 (MRAC); 3 males, P.N.G., 1/c/1, 24.11.1950, G. DEMOULIN, 217 (MRAC); male, P.N.U.; Gorges de la Pelenge, 1500m, 19.VI.1947, G.F. WITTE, 516a (IRSNB); male, Rutshuru, 26.IV.1936, L. LIPPENS, 103 (MRAC).

Note:
Males of *P. akuminambili* can also be recognized by the genitalia figures given by *VANSCHUYTBROECK* (1961, figs. 36-37).

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**2. Paratoxopoda akuminamoya**  
*VANSCHUYTBROECK, 1961*  
Figs. 5-7

*Paratoxopoda akuminamoya* (sic!) *VANSCHUYTBROECK, 1961*: 60

**Diagnosis:**
Two dorsocentral setae. Middle tibia with 2-3 ventral setae. Hind tibia with 2-3 anteroventral setae. Posterolateral margin of abdominal tergite 5 of male with a row of 6-7 setae, approximately equal in size (fig. 5). Surstylus stick-like, flattened laterally of tip, with spines on margin (figs. 6, 7).

**Redescription:**
Frons brown, its length almost equal to its width. Face and gena red-brown. Width of gena less than width of flagellomere 1. Occiput black, shining, with a dark blue tinge. Postgena with 1-2 hair-like setae. Antenna dark brown, posterior margin of flagellomere 1 brick-red. Flagellomere 1 2.5 times as long as wide.
Mesonotum and lateral pleural sclerites black, slightly shining, with a dark blue tinge. Proepimeron above fore coxa bare. Notopleuron with a few short hairs which are shorter than those on anepisternum. Scutellum black with weak greyish pollen. Chaetotaxy of thorax: 2 npl, 1 spat, 1 pal, 2 dc, 1 anepst, 1 ap scil.


Wing hyaline, with pale brown veins. Upper and lower calypters and their margins blackish.

Abdomen black, shining, with a dark blue tinge. Posterolateral margin of tergite 5 of male with a row of 6-7 subequal setae (fig. 5). Surstylus stick-like, its tip flattened laterally, with spines on margin (figs. 6, 7).

Female unknown.

Distribution:
Zaire.

Specimens examined:
ADDITIONAL SPECIMEN: male, "P.N.G., I/o/2, 6.XI.1950, H. De Saeger, 936" (IRSNB).

Note:
The name of this species P. akuminamoya is given only once in the original description, where it is spelled as "akuminamoya". This spelling is also given in the Catalogue of the Diptera of the Afrotropical Region (ZUSKA, 1980). However, this spelling is an error. The label of the holotype has "akuminamoya", clearly written in VANSCHUYTBROECK's hand-writing. This spelling is given in the explanations of the figures and in the list of species (VANSCHUYTBROECK, 1961: figs. 33, 34; p. 78). As first reviser, I here will select the spelling "akuminamoya" for this species.

Examination of the holotype of P. akuminamoya showed that the figures of genitalia given by VANSCHUYTBROECK (1961, figs. 33, 34) can be used to identify males of this species. I had hoped to make more accurate figures from one of this paratypes, but found that only one of the male paratypes belongs to P. akuminamoya and the rest of them to other species of Paratoxopoda. Unfortunately, the genitalia were badly positioned on the slide and inappropriate for drawing. For this reason, I have re-drawn VANSCHUYTBROECK's figures.

3. Paratoxopoda amonane
VANSCHUYTBROECK, 1961
Figs. 8-11.

Paratoxopoda kilinderensis VANSCHUYTBROECK, 1963: 111-syn. nov.
[Junior secondary homonym of Toxopoda kilinderensis VANSCHUYTBROECK, 1963: 105, now assigned to Paratoxopoda].

Diagnosis:
Two dorsocentral setae. Base of all femora with one short straight seta ventrally (fig. 8). Middle tibia with one ventral seta. Hind tibia with one anteroventral seta at middle. Posterolateral margin of abdominal tergite 5 of male with several hairs and three strong setae (fig. 9). Surstylus flattened laterally, with a beak-like curved projection at middle. Tip of surstylus widened sickle-like (figs. 10, 11).

Redescription:
Frons brown to almost black, its length almost equal to its width. Face light brown to dark brown. Gena brown

Figs 8-11  P. amonane: 8 - basal half of male fore femur; 9 - lateral margin of abdominal tergite 5 of male; 10 - epandrium and surstylus, posterior view; 11 - epandrium and surstylus, lateral view.
or dark brown. Genal width slightly narrower than or equal to, width of flagellomere 1. Occiput black, shining. Antenna brown or dark brown, base of flagellomere 1 brick-red inside. Flagellomere 1 2.5-3 times as long as wide.

Mesonotum and lateral pleural sclerites black, shining, with a slight violet tinge. Proepimeron above fore coxa with 2-3 short hairs. Notopleuron with pale erect hairs, as dense and as long as those on anepisternum. Scutellum velvety-black. Chaetotaxy of thorax: 2 npl, 1 spal, 1 pal, 2 dc, 1 anepst, 1 ap scit.

Legs dark brown or black. Fore coxa with strong anterodorsal and anteroventral setae near apex. Posterior surface of middle trochanter in male with spinules setae near base (fig. 8). Ventral surface of hind trochanter with short erect hairs and with several short spinules. Hind tibia with one anteroventral seta at middle.

Wing hyaline, with brown veins. Upper and lower calypters white, with white margins. Haltere yellow.

Abdomen black, shining, with a weak violet tinge. Male: posterolateral margin of abdominal tergite 5 with several hairs and three strong setae (fig. 9). Surstylus flattened laterally with a beak-like curved projection at centre. Tip of surstylus widened sickle-like (figs. 10, 11).

Length of body: 5.3-6.8 mm. Length of wing: 3.8-4.4 mm.

Distribution:
Nigeria, Zaire, Uganda, Kenya, Zimbabwe, Republic of South Africa.

Specimens examined:

OTHER SPECIMENS: *Nigeria*: male, Samaru, 8-15.IX.1970, P.H. WARD (BMNH); *Zaire*: female, P.N.A., Massif Ruwenzori, Mont Mutungu, 2600 m, 16.XI.1957, P. VANSCHUYTBROECK, VS-230a (IRSNB); *Uganda*: male, Bunyoro, Budongo Forest, VII.1952, VAN SOMEREN (BMNH); *Kenya*: 5 males, 1 female, Namanga, X.1950, VAN SOMEREN (BMNH); 2 males, Garita R., Suk., VII.1949, VAN SOMEREN (BMNH); *Zimbabwe*: male, Bulawayo, 26.X.1913 (NHMZ); female, Utlali, 1969 (NHMZ); *Republic of South Africa*: male, Botshabelo, N Middleburg, 4000 ft, H.A. Junod (BMNH); male, 3 females, Natal, Weenen, XI.1929, H.P. Thomasset (BMNH); female, Natal, Willow Grange, 6.III.1914, R.C. Wroughton (BMNH).

Note:
I have not examined the holotype of *P. amonane*, but have determined the species from the clear illustrations of the genitalia given by VANSCHUYTBROECK (1961, figs. 27, 28). *Paratoxopoda kilinderensis* VANSCHUYTBROECK (1963: 111) is a junior secondary homonym of *Toxopoda kilinderensis* VANSCHUYTBROECK (1963: 105). The latter species was described in the genus *Toxopoda* but was correctly transferred to *Paratoxopoda* by ZUSKA (1980). Because *Paratoxopoda kilinderensis* is also a junior synonym of *Paratoxopoda amonane* VANSCHUYTBROECK, it does not require a replacement name.

4. *Paratoxopoda angolica* sp. n.

Figs. 12-14.

**Diagnosis:**
One dorsocentral seta. Middle tibia with one ventral seta in basal third. Hind tibia with one anteroventral seta at middle. Male: posterolateral margin of abdominal tergite 5 with fine hairs (fig. 12). Surstylus with two forks: length of lower fork approximately equal to length of base of surstylus (fig. 14). Female: abdominal tergite 3 with a narrow yellow band.

**Description:**
Frons dark brown, its length approximately equal to its width. Face dark brown. Genal width little more than width of flagellomere 1. Antenna dark brown, often with base of flagellomere 1 brick-red on inside. Flagellomere 1 2.0-2.2 times as long as wide. Mesonotum and lateral pleural sclerites black, shining, with a weak dark-blue tinge. Proepimeron above fore coxa with several pale hairs. Posterior part of notopleuron and anepisternum with pale, erect, subequal hairs. Scutellum black, with grey pollen. Chaetotaxy of thorax: 2 npl, 1 spal, 1 pal, 1 dc, 1 anepst, 1 ap scit.

Legs dark brown, almost black. Fore coxa with few hairs, with strong anterodorsal and anteroventral setae near apex. Fore femora with very short decumbent hairs. Posterior surface of middle trochanter with short erect hairs. Middle tibia with one ventral seta in basal third. Ventral surface of hind trochanter with short erect hairs. Hind tibia with one anteroventral seta at middle.

Note:
Revision of *Paratoxopoda* 129
Wing hyaline, with brown veins. Upper and lower calypters and their margins white. Haltere yellow. Abdomen black, with a weak dark blue tinge. Tergite 3 of female with a very narrow yellow band on posterior margin. Posterolateral margin of tergite 5 in male with group of long dense hairs (fig. 12). Surstylus with two forks: length of lower fork approximately equal to basal width of surstylus (fig. 14).

Length of body: 5.9-6.6 mm. Length of wing: 4.0-4.9 mm.

Distribution:
Angola.

Type material:

5. Paratoxopoda asaba
VANSCHUYTBROECK, 1961
Figs. 15-17.

Paratoxopoda asaba VANSCHUYTBROECK, 1961: 49.
Paratoxopoda pelengensis VANSCHUYTBROECK, 1963: 19 - syn. nov.

Diagnosis:
Two dorsocentral setae. Middle tibia with 3 ventral setae in apical half. Hind tibia with 3 anteroventral setae. Male: posterolateral margin of abdominal tergite 5 with 3-4 short spine-like setae (fig. 15). Surstylus with a short broad projection on inner surface near base (figs. 16-17).

Redescription:
Frons red-brown, its length approximately equal to its width. Face and gena pale brown. Genal width less than width of flagellomere 1. Postgena with two hair-like setae. Occiput black, shining, with a dark blue tinge. Antenna brown, base of flagellomere 1 pale brown or brick-red. Flagellomere 1 2.5 times as long as wide. Mesonotum and lateral pleural sclerites black, shining, with dark blue tinge. Proepimeron above fore coxa with 2-3 short hairs. Notopleuron with hairs which are usually shorter than those on anepisternum. Scutellum black, with greyish pollen. Chaetotaxy of thorax: 2 np1, 1 spal, 1 pal, 2 dc, 1 anepst, 1 ap sctl.

Legs black, more seldom dark brown. Middle and hind trochanters and coxae as a rule paler than other parts of legs. Fore coxa with strong anterodorsal and anteroventral setae near apex. Posterior surface of middle trochanter bare. Ventral surface of hind trochanter with a few pale hairs. Middle tibia with 3 ventral setae in apical part. Hind tibia with 3 anteroventral setae. Wing hyaline, with light brown veins. Upper calypter white or blackish, with white or darkened margin. Lower calypter and margin dark. Haltere yellow or dark brown. Abdomen black, shining, with a strong violet tinge. Syntergite 1 + 2 and in female base of tergite 3 often partly or completely red-brown. Male: posterolateral margin of tergite 5 with 3-4 short spine-like setae (fig. 15). Surstylus with a short broad projection on inner surface near base (figs. 16, 17).

Length of body: 7.5-8.2 mm. Length of wing: 5.6-7.0 mm.

Distribution:
Zaire, Uganda, Kenya.

Specimens examined:

Note:
Males of P. asaba can be identified using the genitalia figures given by VANSCHUYTBROECK (1961, fig. 25).
Paratoxopoda asita VANSCHUYTBROECK, 1961: 47.

Diagnosis:
Two dorsocentral setae. Fore coxa near apex with a strong anterodorsal seta and a weak anteroventral seta. Hind tibia with one anteroventral seta at middle. Posterolateral margin of abdominal tergite 5 of male with numerous long setae (fig. 18). Surs stylus as in figs. 19, 20.

Redescription:
Frons dark brown, its length almost equal to its width. Face brown. Gena dark brown, its width less than that of flagellomere I. Occiput black, shining. Antenna dark brown. Flagellomere I 2.5 times as long as wide. Mesonotum and lateral pleural sclerites black, weakly shining, with a dark-blue tinge. Proepimeron above fore coxa bare. Notopleuron with pale erect hairs which are shorter than those on anepisternum. Scutellum black, with grey pollen. Chaetotaxy of thorax: 2 npl, 1 spal, 1 pal, 2 dc, 1 anepst, 1 ap sctl. Legs black. Fore coxa near apex with a strong anterodorsal seta and a weak anteroventral seta. Posterior half of middle trochanter bare; other parts of middle legs of holotype missing. Ventral surface of hind trochanter with long erect hairs which are approximately as long as the hairs on anepisternum. Hind tibia with one anteroventral seta at middle. Wing hyaline, with brown veins. Upper and lower calypters and their margins strongly darkened. Halteres dark yellow.
Abdomen black, shining, with a dark blue tinge. Posterolateral margin of tergite 5 of male with numerous long setae (fig. 18). Surstylus as in figs. 19, 20.
Length of body: 4.9 mm. Length of wing: 3.5 mm. Female unknown.

Distribution:
Zaire.

Specimens examined:

7. Paratoxopoda barbata sp. n.
Figs. 21-24.

Diagnosis:
Lower part of gena with dense hairs in the row of genal setae (fig. 21). One dorsocentral seta. Middle and hind trochanters with long dense hairs which are as long as the hairs on posterodorsal surface of middle femora. Middle tibia with one ventral seta in basal third. Hind tibia with one anteroventral seta at middle. Male: posterolateral margin of abdominal tergite 5 with small group of short hairs (fig. 22). Surstylus short, blunt (figs. 23, 24).

Description:
Frons dark brown, its length approximately equal to its width. Face dark brown. Gena brown, weakly shining, with dense hairs in the row of genal setae (fig. 21). Vibrissae not distinct from the genal setae. Width of gena approximately equal to width of flagellomere I. Occiput black, shining. Antenna brown. Flagellomere I hardly twice as long as wide.
Mesonotum and lateral pleural sclerites black, shining, with a dark blue tinge. Proepimeron above fore coxa with 2-3 very short hairs. Posterior half of anepisternum with pale erect hairs. Notopleuron with several hairs. Scutellum black, with grey pollen. Chaetotaxy of thorax: 2 npl, 1 spal, 1 pal, 1 dc, 1 anepst, 1 ap scil.

Legs brown to black. Fore coxa with strong anterodorsal and anteroventral setae near apex. Fore femora with very short decumbent hairs. Middle and hind trochanters with long dense hairs which are as long as the hairs on posterodorsal surface of middle femora. Middle tibia with one anteroventral seta in basal third. Hind tibia with one anteroventral seta at middle.

Wing hyaline, with brown veins. Upper calypter white with white margin or, like the lower calypter, darkened with a dark brown margin. Haltere dirty yellow.

Abdomen black, weakly shining, with a dark blue tinge. Male: posterolateral margin of tergite 5 with a small group of short hairs (fig. 22). Epandrium and surstylus as in figs. 23, 24.

Length of body: 5.0-5.3 mm. Length of wing: 3.7-4.0 mm.

Distribution:
Zaire.

Type material:

8. Paratoxopoda crassijorceps DUDA, 1926
Figs. 25, 26.

Paratoxopoda crassijorceps DUDA, 1926: 32.

Diagnosis:
Two dorsocentral setae. Middle tibia with 4 ventral setae. Hind tibia with 3-4 anteroventral setae. Male: posterolateral margin of abdominal tergite 5 with long strong setae. Surstylus strongly flattened laterally in basal half, with a small projection at middle of inner side; upper part oval in lateral view (figs. 25, 26).

Distribution:
Cameroon.

Specimens examined:
seta. Hind tibia with one anteroventral seta at middle. Male: posterolateral margin of abdominal tergite 5 with several fine hairs (fig. 27). Suture short, flattened laterally, with a small pointed projection on inner surface near base (figs. 28, 29). Female: posterior margin of abdominal tergite 3 and often anterior margin of tergite 4, orange-yellow.

**Diagnosis:**
Two dorsocentral setae. Middle tibia with 3-4 ventral setae in apical third. Hind tibia with 3-4 anteroventral setae. Male: posterolateral margin of abdominal tergite 5 with a row of 5-6 strong setae (fig. 30). Surstylus stick-like, slightly curved, pointed at apex, running straight to tip beyond the small projection near base of inner surface (figs. 31, 32).

**Distribution:**
Ethiopia, Sierra Leone, Zaire, Uganda, Kenya, Zimbabwe, Republic of South Africa.

**Specimens examined:**
TYPE: holotype of *S. depilis* — female, "Sierra Leone, Morgan, 42, 31" (BMNH); lectotype of *T. fasciventris* (present designation) — male, "Pretoria, 24.5.15, H.K. Munro" (MCSN); holotype of *P. akumi* — male, "Congo Belge, P.N.G., Miss. H. De Saeger, Pp K/60/d/8, 18.II.1951, Réc. H. De Saeger, 2924" (MRAC); holotype of *P. bombiensis* — male, "Congo Belge, P.N.A., Massif Ruwenzori, riv. Bombi, 1700 m, af. Butahu, ex. P.N.A., 23.VI.1958, P. VansChuyt-Broeck, VS-362" (MRAC). OTHER SPECIMENS: *Ethiopia*: female, Harrar Prov., 2.X.1920 (AMNH); Zaire: male, P.N.U., Gorges de la Pelenge, 1500 m, 19.V.1947, G.F. De Witte, 524a (IRSNB); Uganda: 5 males, 1 female, Impenetrable Forest, SW Uganda, 27.I.1972, A. Freidberg (TAU); Kenya: 2 males, 4 females, Namanga, X.1956, Van Someren (BMNH); 2 males, 6 females, Ngong, 1956, Van Someren (BMNH); male, female, Sebit Marum River, 26.XI.1986, A. Freidberg (TAU); 2 males, 3 females, Garita R., Bulawayo, Mishabezi Valley, Matoros, 28.II.1965 (NHMZ); 3 males, 1 female, P.A. Buxton (BMNH); 2 females, Gwelo, 14.VI.1972, T.W. Stenhous (NHMZ); male, 1.VI.1944, R.H.R. Stevenson (NHMZ); male, Umtali, 1969 (NHMZ); male, female, Victoria, XI.1932, A. Cuthbertson (AMNH); male, female, Balla-Balla, III.1931, A. Cuthbertson (AMNH); Republic of South Africa: male, Natal, Kloof, 1500 ft, IX.1926, R.E. Turner (BMNH).

**Note:**
The holotype of *P. saskai* was not examined. However, Soós' description of this species was very detailed and it was not difficult to identify it as *P. depilis*. A complete description of *P. depilis* was given by Bezzi (1920) under the name of *P. fasciventris*.

10. **Paratoxopoda dudai** sp. n.
   Figs. 30-32.

**Diagnosis:**
Two dorsocentral setae. Middle tibia with 3-4 ventral setae in apical third. Hind tibia with 3-4 anteroventral setae. Male: posterolateral margin of abdominal tergite 5 with a row of 5-6 strong setae (fig. 30). Surstylus short, flattened laterally, with a small pointed projection on inner surface near base (figs. 28, 29).
Distribution:
Cameroun, Zaire.

Type material:

11. Paratoxopoda flavitarsis DUDA, 1926
Figs. 33-35.

Paratoxopoda flavitarsis DUDA, 1926a: 32.
Paratoxopoda akuminatanu VANSCHUYTBROECK, 1961: 71 - syn. nov.

Diagnosis:
Two dorsocentral setae. Middle tibia with 3-4 ventral setae. Hind tibia with 3-4 anterodorsal setae. Male: basal half of fore tibia dark brown. Fore tibia pale brown in lower expanded part, with rows of hair-like setae along anterodorsal, posterodorsal and dorsal lines. Tip of fore tibia expanded club-like, on posterior side with two groups of strongly flattened setae (fig. 33). Fore tarsus yellow. Middle coxa on posterior side with a row of short setae. Posterolateral margin of abdominal tergite 5 of male with a group of setae, among which 2-3 are very strong. Suriastylus curved, pincer-like, thin, strongly flattened laterally at apex, with a short projection on inner surface near base (figs. 34, 35). Female: fore tibia dark brown in basal part, pale brown in apical part. Fore leg with first tarsomere and the basal half of second tarsomere dark brown, apical half of second tarsomere, third, fourth and fifth tarsomeres white.

Distribution:
Cameroun, Zaire, Kenya.

Specimens examined:

Note:
A brief description was given by DUDA (1926 a, b). A detailed description of the male of P. flavitarsis was given by VANSCHUYTBROECK (1961) under the name of P. akuminatanu.

12. Paratoxopoda frontalis sp. n.
Figs. 36-39.

Diagnosis:
Frons projecting forwards beyond eyes, its length greater than its width. Orbital seta very weak, sometimes indistinct. Postocellar setae situated on a line joining the posterior margin of the eyes (fig. 36). Fore coxa with a strong anterodorsal seta, and anterodorsal setae absent or very weak. Middle tibia with one ventral seta. Hind tibia with 2-3 anterodorsal setae. Wings slightly darkened. Male: posterolateral margin of abdominal tergite 5 with 6 very strong setae (fig. 39). Suriastylus stick-like, long, with a small swelling at apex (figs. 38, 39).

Description:
Frons dark brown, conspicuously projecting forwards beyond eyes. Orbital seta very weak, sometimes indistinct. Postocellar setae situated on a line joining posterior margin of eyes (fig. 36). Face and gena dark brown. Genal width greater than that of flagellomere 1. Occiput black, shining. Postgena with one short hair-like seta. Antenna dark brown. Flagellomere 1 2.5 times as long as wide. Mesonotum and lateral pleural sclerites black, slightly shining. Proepimeron above fore coxa with several short pale hairs. Notopleuron with a few short hairs which are very much shorter than those on anepisternum. Scutellum black, with weak greyish pollen. Chaetotaxy of thorax: 2 npl, 1 s, 1 pal, 2 dc, 1 anepst, 1 ap scl.

Legs black. Fore coxa with very short pectinate hairs, with a strong anterodorsal seta near apex. Anterodorsal seta on fore coxa absent or very weak. Fore femora with

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Figs 33-35 – P. flavitarsis: 33 – fore tibia of male; 34 – epandrium and surstylus, posterior view; 35 – epandrium and surstylus, lateral view.
decumbent hairs. Posterior surface of middle trochanter without hairs. Middle tibia with one ventral seta, which is sometimes absent. Ventral surface of hind trochanter with short erect hairs. Hind tibia with 2-3 anteroventral setae.

Wing slightly darkened, mostly at apex. Veins black. Upper and lower calypters and their margins strongly darkened, almost black, but several specimens with a white upper calyxter with a white margin. Haltere strongly darkened, almost black.

Abdomen black, weakly shining. Syntergite 1+2 and lateral margin of tergite 3 red-brown. Male: posterolateral margin of tergite 5 with 6 very strong setae (fig. 37). Epandrium and surstylus as in figs. 38, 39.

Length of body: 5.6-8.9 mm. Length of wing: 4.4-6.8 mm.

**Distribution:**
Kenya.

**Type material:**

13. *Paratoxopoda glabra* sp. n.
Figs. 40, 41.

**Diagnosis:**
Notopleuron bare, without hairs. Only posterior notopleural seta present; anterior notopleural seta, if present, very short and fine. Two dorsoventral setae present. Middle tibia with 2-3 ventral setae. Hind tibia with 2-3 anteroventral setae. Male: posterolateral margin of abdominal tergite 5 without setae or hairs. Surstylus short and broad (figs. 40, 41).

**Description:**
Frons dark brown, its length approximately equal to its width. Orbital seta very weak. Face, gena and antenna dark yellow to dark brown. Genal width less than width of flagellumere I. Occiput black, shining. Flagellomere I twice as long as wide. Mesonotum and lateral pleural sclerites black or dark brown, slightly shining, with a hardly noticeable violet tinge. Proepimeron and notopleuron bare. Scutellum black or dark brown, with weak greyish pollen. Chaetotaxy of thorax: only posterior notopleural seta present (if anterior one is present, then it is short and fine like a hair), 1 spat, 1 pal, 2 dc, 1 anepest, 1 ap set. Legs black. Fore coxa with very short decumbent hairs, with strong anterodorsal ans anteroventral setae near apex. Posterior surface of middle trochanter with short erect hairs. Hind tibia with 2-3 anteroventral setae. Wing hyaline, with brown veins. Upper and lower calypters darkened, with black margins. Haltere dark.

Abdomen black, weakly shining. Male: posterolateral margin of tergite 5 without setae or hairs. Epandrium and surstylus as in figs. 40, 41.

Length of body: 4.6-4.9 mm. Length of wing: 3.6-3.8 mm.

**Distribution:**
Uganda.

**Note:**
As I got to known from Dr. A.C. PONT, F.W. EDWARDS collected in the Namwamba Valley in December 1934-January 1935. Alt. 6500 ft refers to Kyanjoke Camp, forest zone, 2-4 and 13-14 January 1935.
Type material:

14. Paratoxopoda intermedia DUDA, 1926
Figs. 42, 43.
Paratoxopoda intermedia DUDA, 1926a: 32.
Paratoxopoda babalwakitaensis VANSCHUYTBROECK, 1963: 110 - syn. nov.

Diagnosis:
Two dorsocentral setae. Fore femora with distinct rows of short anteroventral and posteroventral setae. Middle tibia with two ventral setae. Hind tibia with 3-4 anteroventral setae. Male: posterolateral margin of abdominal tergite 5 with a row of strong setae. Surstylus stick-like, comparatively stout (figs. 42, 43).

Distribution:
Cameroun, Zaire, Uganda.

Specimens examined:

Figs 42-43 — P. intermedia: 42 — epandrium and surstylus, posterior view; 43 — epandrium and surstylus lateral view.

15. Paratoxopoda kilinderensis
(VANSCHUYTBROECK, 1963)
Figs. 44-46.

Toxopoda kilinderensis VANSCHUYTBROECK, 1963: 105.

Diagnosis:
Genal width less than that of flagellomere 1. One dorsocentral seta present. Middle tibia with one ventral seta. Hind tibia with 0-1 anteroventral seta at middle. Male: posterolateral margin of abdominal tergite 5 with dense hairs distally of the spiracle (fig. 44). Surstylus long, stick-like, flattened laterally at apex, semicircular in lateral view (figs. 45, 46).

Redescription:
Frons brown, its length approximately equal to its width. Face light brown or brown. Gena light to dark brown. Genal width less than that of flagellomere 1. Occiput black, shining. Antenna pale brown, brick-red or dark brown. Base of flagellomere 1 usually paler along inner edge than on other parts. Flagellomere 1 usually 2.0-2.5 times as long as wide. Mesonotum and lateral pleural sclerites black, shining, with a violet tinge. Proepimeron above fore coxa with several very short hairs. Notopleuron with pale erect hairs, more sparse than on anepisternum. Scutellum black, with grey pollen. Chaetotaxy of thorax: 2 npl, 1 spl, 1 pal, 1 dc, 1 anepst, 1 ap sctl.

Legs black. Fore coxa with short decumbent hairs, with strong anterodorsal and anteroventral setae near apex. Posterior surface of middle trochanter bare. Middle tibia with one ventral seta in apical quarter. Ventral surface of hind trochanter with short erect hairs. Hind tibia with 0-1 anteroventral seta at middle. Wing hyaline, with pale brown veins. Upper and lower calypters and their margins white or brown. Haltere yellow.
Abdomen black, shining, with a violet tinge. Male: posterolateral margin of tergite 5 with dense hairs distally of the spiracle (fig. 44). Surstylus long, stick-like, flattened laterally at apex, and semicircular in lateral view (figs. 45, 46).

Length of body: 4.6-5.1 mm. Length of wing: 3.2-3.6 mm.

Distribution:
Zaire.

Specimens examined:
TYPE: holotype of *T. kilinderensis* — male, "Congo Belge, P.N.A., Massif Ruwenzori, Camp Kilindere, rive g. riv. Ruanoli, 2900 m, 13.IX.1957, P. VANSCHUYT-BROECK, VS-156 (MRAC). OTHER SPECIMENS:
Zaire: 51 males, 4 females, P.N.U., Gorges de la Pelenge, 1500 m, 21.V.-21.VI.1947, G.F. DE WITTE, 428a, 434a, 443a, 521a, 524 (IRSNB, MRAC).

Note:
This species was first described in the genus *Toxopoda*. After transferring it to the genus *Paratoxopoda*, it becomes a senior secondary homonym. However, the junior secondary homonym (VANSCHUYTBROECK, 1963: 111) is a junior synonym of *P. amonane* VANSCHUYTBROECK (see under *P. amonane*).

16. *Paratoxopoda magna* sp. n.
Figs. 47-49.

Diagnosis:
Two dorsocentral setae. Middle tibia with 3-4 ventral setae in apical half. Hind tibia with 2-4 anteroventral setae. Posterolateral margin of abdominal tergite 5 of male with 6 strong setae (fig. 47). Surstylus short, with apex flattened laterally, circular in lateral view (figs. 48, 49).

Description:
Frons dark brown, its length approximately equal to its width. Face and gena dark brown. Genal width less than or equal to width of flagellomere 1. Postgena with 1-2 hair-like setae. Occiput black, shining. Antenna dark brown with a brick-red tinge. Flagellomere 1 2.5 times as long as wide.

Mesonotum and lateral pleural sclerites black, weakly shining. Proepimeron above fore coxa with 2-3 short pale hairs. Notopleuron with a few very short hairs which are shorter than those on anepisternum. Scutellum velvety-black. Chaetotaxy of thorax: 2 npl, 1 spat, 1 pal, 2 dc, 1 anepst, 1 ap sc1.

Legs dark brown. Fore coxa, all trochanters and hind femora dark yellow. Fore coxa with strong anterodorsal and anteroventral setae near apex. Posterior surface of middle trochanter bare. Middle tibia with 3-4 ventral setae in apical half. Ventral surface of hind trochanter with short erect hairs. Hind tibia with 2-4 anteroventral setae. Wing hyaline, with light brown veins. Upper and lower calypters dirty yellow, with dark margins. Haltere yellow. Abdomen weakly shining, dark yellow or dark brown, sometimes with large black spots. Posterolateral margin of tergite 5 of male with 6 strong setae (fig. 47). Epandrium and surstylus as in figs. 48, 49.

Length of body: 6.5-8.9 mm. Length of wing: 5.2-5.9 mm.

Female unknown.

Distribution:
Uganda, Kenya.

Type material:
Holotype: male, "Uganda, Bundibugio (Ruwenzori), 25.1.1972, A. FREIDBERG" (TAU). Paratypes: male, Kenya, Bwamba valley, July 1945, VAN SOMEREN (BMNH); male, data as holotype (ZMUM).

17. *Paratoxopoda pilifemorata* Soös, 1964
Figs. 50-52.


Diagnosis:
Male: Basal part of middle femora with rows of long straight anteroventral and posteroventral setae. Middle tibia without ventral setae. Hind tibia with 0-1 anteroventral seta. Posterolateral margin of abdominal tergite 5 with a small group of hairs above spiracle (fig. 50). Surstylus stick-like, long, slightly sinuous, with a short spine at middle of inside edge (figs. 51, 52).

Distribution:
Tanzania, Zimbabwe.

Specimens examined:
Figs 50-52 – *P. pilifemorata*: 50 – lateral margin of abdominal tergite 5 of male; 51 – epandrium and surstylus posterior view; 52 – epandrium and surstylus, lateral view.

Note:
*P. pilifemorata* was described from a single specimen from Tanzania. The description by Soós is very good. I have seen only one specimen of *P. pilifemorata*, from Zimbabwe. Unlike the holotype, it has a row of long hairs on the anteroventral surface of middle tibia in addition to those on the posteroventral surface. The right hind tibia of the holotype has one anteroventral seta. The specimen from Zimbabwe has no anteroventral seta on hind tibia. Female unknown.

18. *Paratoxopoda rufithorax* sp. n.
Figs. 53, 54.

Diagnosis:

Description:
Frons red-brown, its length approximately equal to its width. Face brick-red, matt. Gena red-brown, weakly shining. Genal width approximately equal to width of flagellomere 1. Postgena with 1-2 long hair-like setae. Occiput black, shining. Antenna red-brown. Flagellomere 1 weakly narrowing to apex, 2.5 times as long as wide. Mesonotum brick-red with a broad black longitudinal stripe along middle. Lateral pleural sclerites brick-red. Proepimeron above fore coxa with 2-3 short pale hairs. Notopleuron with pale erect hairs as long as those on anepisternum. Scutellum red-brown or brick-red, with thin greyish pollen. Chaetotaxy of thorax: 2 npl, 1 spal, 1 pal, 2 dc, 1 anepst, 1 ap scl.

Legs black or dark brown. Fore coxa with a few short hairs, with strong anterodorsal and anteroventral setae near apex. Fore femora with very short decumbent hairs. First and second tarsomeres of male fore leg dorsally with a row of long hairs, these hairs absent in female. Posteroventral surface of middle trochanter with a few short hairs. Apical half of middle tibia with a row of ventral setae. Ventral surface of hind trochanter with fine erect hairs. Apical half of hind tibia with 4 anteroventral setae. Wing hyaline, with brown veins. Apex of wing white. Upper calypter and margin white; lower calypter strongly darkened, with a dark margin. Haltere yellow.

Abdomen black, with a strong violet tinge. Male: posterolateral margin of tergite 5 bare, without setae or hairs; epandrium and surstylus as in figs. 53, 54. Female: posteriormargin of tergite 3 yellow.

Length of body: 5.1-7.2 mm. Length of wing: 3.8-5.1 mm.

Distribution:
Kenya.

Type material:
19. *Paratoxopoda saegeri*

VANSCHUYTBROECK, 1961

Figs. 55-57.


**Diagnosis:**

One dorsocentral seta. Middle tibia with 2 ventral setae in apical half. Hind tibia with one anteroventral seta at middle. Male: posterolateral margin of abdominal tergite 5 with 4-5 strong setae (fig. 55). Surstylus very short and stout, with many long setae and hairs (figs. 56, 57).

**Redescription:**

Frons dark brown, its length approximately equal to its width. Face brown. Gena dark brown, its width approximately equal to width of flagellomere 1. Occiput black, shining. Antenna brown, paler along inside. Flagellomere 1 twice as long as wide. Mesonotum and lateral pleural sclerites black, shining, with a weak violet tinge. Proepimeron above fore coxa with several short pale hairs. Notopleuron with pale erect hairs, but sparser than on anepisternum. Scutellum black, with weak greyish pollen. Chaetotaxy of thorax: 2 npl, 1 spal, 1 pal, 1 dc, 1 anepst, 1 ap sctl.

Legs black. Fore coxa with strong anterodorsal and anteroventral setae near apex. Posterior surface of middle trochanter bare. Middle tibia with two ventral setae in apical half. Ventral surface of hind trochanter with few hairs. Hind tibia with one anteroventral seta at middle. Wing hyaline, with pale brown veins. Upper and lower calypters and their margins almost black. Haltere dark yellow. Abdomen black, shining, with a weak violet tinge. Syntergite 1 + 2, in addition to the circle of hairs around middle, with similar hairs on lateral sides of tergite apical of the circle. Male: posterolateral margin of tergite 5 with 4-5 strong setae (fig. 55). Surstylus very strong, short and stout with many long setae and hairs (figs. 56, 57). Length of body: 5.0 mm. Length of wing: 3.6 mm.

**Distribution:**

Zaire.

**Specimens examined:**


20. *Paratoxopoda similis* sp. n.

Figs. 58-61.

**Diagnosis:**

One dorsocentral seta. Middle tibia with one anteroventral seta in apical third. Hind tibia with one anteroventral seta at middle. Male: posterolateral margin of abdominal tergite 5 with many hairs (fig. 58). Surstylus with two forks; width of lowest fork more than quarter of its length (figs. 59-61).

**Description:**

Frons and face brown or dark brown. Length of frons approximately equal to its width. Gena yellow or red-brown. Genal width approximately equal to width of flagellomere 1. Occiput black, shining. Antenna brown. Anterior margin of flagellomere 1 darkened. Flagellomere 1 2.5-3.0 times as long as wide. Mesonotum and lateral pleural sclerites black, shining, with a dark blue tinge. Proepimeron above fore coxa with several short pale hairs, as on anepisternum. Scutellum black, with grey pollen. Chaetotaxy of thorax: 2 npl, 1 spal, 1 pal, 1 dc, 1 anepst, 1 ap sctl.

Legs black. Fore coxa with a few short hairs, and with long anterodorsal and anteroventral setae near apex. Fore femora with very short, sparse, seta-like hairs, and with a row of very weak pos teroventral and anteroventral setae. Posterior surface of middle trochanter bare. Middle tibia with one ventral seta in apical third. Ventral surface of hind trochanter with short erect hairs. Hind tibia with one anteroventral seta at middle.
Figs 58 - 61 - *P. similis*: lateral margin of abdominal tergite 5 of male; 59 - epandrium and surstylus, posterior view; 60 - epandrium and surstylus, lateral view; 61 - surstylus, lateral view (A - width of base, B - length of lower fork, C - width of lower fork).

Wing hyaline, with brown veins. Upper calypter and margin white; lower calypter and margin white or darkened. Haltere dirty yellow.

Abdomen black, shining, with a dark blue tinge. Syntergite 1 + 2 with a circle of hairs around middle, and very often with several similar hairs on lateral surface. Male: posterolateral margin of tergite 5 with many fine hairs (fig. 58). Surstylus with two forks. Width of lower fork more than quarter of its length (fig. 59, 60).

Length of body: 4.8 - 6.5 mm. Length of wing: 3.7 - 4.2 mm.

*Distribution:*
Zaire, Burundi, Kenya.

*Type material:*
Holotype: male, Zaire, "Mbaga" (AMNH). Paratypes: Zaire: female, "Mbaga" (AMNH); male, "Kasongo" (ZMUM); male, P.N.U., Gorges de la Pelenge, 1500 m, 21-31.V.1947, G.F. DE WITTE, 428a (IRSNB); male, P.N.U., Murol bif. Lupilala, 890 m, 15-24.VI.1948, G.F. DE WITTE, 1719a (IRSNB); male, P.N.A., Massif Ruwenzori, riv. Lusilube af. Semiliki, 2085 m, 24.V.1958, P. VANSCHUYTBROECK, VS-363 (MRAC); female, P.N.A., Massif Ruwenzori, Kyandolire, 1750 m, Camp des Gardes, 7.XII.1957, P. VANSCHUYTBROECK, VS-249 (MRAC); 2 males, 1 female, P.N.A., Secteur Tschiaberimu, riv. Mbulikerere, affl. dr. Talia N., 2720 m, 26-28.VIII.1953, P. VANSCHUYTBROECK and V. HENDRICKX, 4999-5005 (MRAC, ZMUM); male, Rutshuru, 28.V.1936, L. LIPPENS (MRAC); male, N. KIVU: riv. Kabarazo, 12.V.1936, L. LIPPENS (MRAC); 4 males, Kivu: Katana, 1933, DE WULF (MRAC, ZMUM); Burundi: 3 males, 8 females, Rumonge, alt. 760 m, 25.XI.1948, F. FRANCOIS (IRSNB, MRAC, ZMUM); Kenya: male, Bwamba Valley, July 1945, VAN SOMEREN (BMNH).


Figs. 62-64.

*Paratopoda straeleni* VANSCHUYTBROECK, 1961: 44.

*Diagnosis:*
Anterior notopleural seta half as long as posterior one. Two dorsocentral setae present. Middle tibia with two ventral setae in apical quarter. Hind tibia with 3 anteroventral setae. Abdomen with a strong violet tinge. Male: posterolateral margin of abdominal tergite 5 with 6-8 seta-like hairs (fig. 62). Surstylus stick-like, its apex curved dorsally almost at right-angle (fig. 64).

*Redescription:*
Frons brown or dark brown, its length approximately equal to its width. Face yellow or pale brown. Gena yellow. Genal width slightly less than width of flagellomere 1. Occiput black, shining. Antenna yellow or pale brown. Anterior margin of flagellomere 1 slightly darkened. Flagellomere 1 approximately 2.0-2.5 times as long as wide. Mesonotum and lateral pleural sclerites black, shining, with a dark blue tinge. Proepimeron above fore coxa bare or with 2-3 short hairs. Scutellum black, with grey pollen. Chaetotaxy of thorax: 2 np1 (anterior one half as long as posterior one), 1 sp1, 1 pal, 2 dc, 1 anepst, 1 ap set. Legs dark brown. Fore coxa with very strong anterodorsal and anteroventral setae near apex. Posterior surface of middle trochanter bare. Middle tibia with two ventral setae in apical quarter. Ventral surface of hind trochanter with a few very short hairs. Hind tibia with 3 anteroventral setae.

Wing hyaline, with brown veins. Upper and lower calypters and their margins blackish. Haltere dark yellow.
Abdomen black, shining, with a strong violet tinge. Male: posterolateral margin of tergite 5 with 6-8 spine-like setae (fig. 62). Surstylus stick-like. Apical part of surstylus curved back almost at right-angle (figs. 63, 64).

Length of body: 5.8-7.2 mm. Length of wing: 4.1-4.6 mm.

Distribution:
Zaire, Uganda.

Specimens examined:

Note:
Males of *P. straeleni* can be identified by using the genitalia figures given by VANSCHUYTBROECK (1961, figs. 21, 22).

22. *Paratoxopoda tenebrica* sp. n.
Figs. 65-67.

Diagnosis:
Two dorsocentral setae. Middle tibia with one ventral seta in apical third. Hind tibia with 3 anteroventral setae. Posterolateral margin of abdominal tergite 5 of male with a group of hairs and a row of 6-7 strong setae (fig. 65). Surstylus stick-like, moderately long (figs. 66, 67).

Description:
Frons, face and gena brown. Length of frons approximately equal to its width. Genal width approximately equal to that of flagellomere 1. Occiput black, shining. Antenna dark brown. Flagellomere 1 2.5-3.0 times as long as wide. Mesonotum and lateral pleural sclerites black, shining, with a dark blue tinge. Proepimeron above fore coxa with several very short hairs. Notopleuron bare, or with several hairs which are shorter than those on anepisternum. Scutellum velvety-black. Chaetotaxy of thorax: 2 npl, 1 spal, 1 pal, 2 dc, 1 anepst, 1 ap scl.

Legs dark brown or black. Fore coxa with short hairs, with a strong anterodorsal and anteroventral setae near apex. Fore femora with very short decumbent hairs. Posterior surface of middle trochanter bare. Middle tibia with one ventral seta in apical third. Ventral surface of hind trochanter with short erect hairs. Hind tibia with 3 anteroventral setae.

Wing hyaline, with brown veins. Upper and lower calypters darkened, with dark margins. Haltere strongly darkened. Abdomen black, shining, with a dark blue tinge. Posterolateral margin of tergite 5 of male with a group of hairs and a row of 6-7 strong setae (fig. 65). Epandrium and surstylus as in figs. 66, 67.

Length of body: 6.1-6.3 mm. Length of wing: 4.1-4.3 mm.

Female unknown.

Distribution:
Sierra Leone.

Type material:

23. *Paratoxopoda tricolor* (WALKER, 1849)
Figs. 68-72.

*Sepsis tricolor* WALKER, 1849: 1001.
*Paratoxopoda nigrirarsis* DUDA, 1926a: 32 - syn. nov.
*Paratoxopoda varicoxa* CURRAN, 1929: 8 - syn. nov.
*Afrotoxopoda ambili* VANSCHUYTBROECK, 1961: 28 - syn. nov.
*Paratoxopoda akuminainne* VANSCHUYTBROECK, 1961: 70 - syn. nov.

Diagnosis:
Two dorsocentral setae. Middle tibia with 3-4 ventral setae. Hind tibia with 2-3 anteroventral setae. Male: posterolateral margin of abdominal tergite 5 with a group of setae, among which there are 3-4 strong setae (fig. 70). Surstylus stick-like, slender, slightly concave along inner surface beyond a pointed projection, rounded of apex (figs. 71, 72).

Distribution:
Sierra Leone, Liberia, Cameroun, Zaire, Uganda.
Figs 68-72 — P. tricolor: 68 — head, dorsal view (poc — postocular setae); 69 — wing (bc — basal costal cell; C — costal cell; Sc — subcosta; R/1, R/2+3, R/4+5 — veins of radius; M — vein of media; A/1 — anal vein; CuA/2 — vein of cubitus; al — alula); 70 — lateral margin of abdominal tergite 5 of male; 71 — epandrium and surstylus, posterior view; 72 — epandrium and surstylus, lateral view.

Specimens examined:

24. Paratoxopoda villicoxa DUDA, 1926
Figs. 73-77.

Paratoxopoda villicoxa DUDA, 1926a: 32.
Paratoxopoda ruwenzoriensis VANSCHUYTBROECK, 1963: 106 - syn. nov.

Figs 73-77 — P. villicoxa: 73 — fore coxa of female, anterior view; 74 — fore coxa of male, anterior view; 75 — lateral margin of abdominal tergite 5 of male; 76 — epandrium and surstylus, posterior view; 77 — epandrium and surstylus, lateral view.
Diagnosis: Fore coxa with 2-3 short anterodorsal setae near apex. Two dorsocentral setae present. Middle tibia with 2-3 ventral setae. Hind tibia with 3-4 anteroventral setae. Male: lower half of fore coxa with long curly hairs (fig. 74). Posterolateral margin of abdominal tergite 5 with short spinose setae distally of the spiracle (fig. 75). Surstylus short, with a small projection on inner surface near base (figs. 76, 77). Female: lower half of fore coxa with short erect hairs (fig. 73).


Specimens examined:
TYPE: holotype of *P. villicoxa* — male, "Kamerun, Jaunde-Stat., 800 m, Zenker S" (MNHU); holotype of *P. ruwenzoriensis* — male, "Congo Belge, P.N.A., Massif Ruwenzori, Mont Mulungu, 2600 m, 27.XI.1957, P. VANSCHUYTBROECK, VS-240" (MRAC). OTHER SPECIMENS: Liberia: female, Kpaine, 1400 ft, 7°10'N, 9°7'W, 10.VII.1953, W. PETERS, No 219 (BMNH); 2 males, 3 females, Memeh Town, 28.VIII.1926 (AMNH); Ghana: male, Gold Coast, 1911-65, W.P. LOWE (BMNH); Zaire: 2 males, 2 females, Avakubi, 27°31'E, 1°20'N (AMNH); Kenya: 2 males, 2 females, 15 km SW Kericho, 16.XI.1986; female, West Pokot, Chepareria, 25.XI.1983; 12 males, 6 females, Kakamega Forest, 8-9.XI.1983, A. FREIDBERG (TAU, ZMUM); female, Katmosi, 11.1949, VAN SOMEREN (BMNH).

25 *Paratoxopoda zuskaei* sp. n.

Figs. 78-80.

Diagnosis: One dorsocentral seta. Middle tibia with one ventral seta in apical third. Hind tibia with one anteroventral seta at middle. Male: posterolateral margin of abdominal tergite 5 with many dense hairs (fig. 78). Surstylus with two forks; width of lower fork less than quarter of its length (fig. 79).

Description: Frons and face dark brown. Length of frons approximately equal to its width. Gena brown or dark brown, weakly shining. Genal width slightly more than width of flagellomere 1. Occiput black, shining. Antenna dark brown. Inner surface of flagellomere 1 partly brick-red. Flagellomere 1 2.5 times as long as wide. Mesonotum and lateral pleural sclerites black, shining, with a dark blue tinge. Proepimeron above fore coxa with several short pale hairs. Posterior half of anepisternum and notopleuron with pale erect hairs of equal length. Scutellum black, with grey pollen. Chaetotaxy of thorax: 2 npl, 1 spal, 1 pal, 2 dc, 1 anepst, 1 ap set/.

Legs black. Fore coxa with a few very short hairs, with strong anterodorsal and anteroventral setae near apex. Fore femora with a few short seta-like hairs, with a row of very weak anteroventral setae. Posterior surface of middle trochanter bare. Middle tibia with one ventral seta in apical third. Ventral surface of hind trochanter with short erect hairs. Hind tibia with one anteroventral seta at middle. Wing hyaline, with brown veins. Upper calypter usually white, with white margin. Lower calypter and its margin darkened. Haltere dark yellow. Abdomen black, shining, with a dark blue tinge. Syntergite 1+2 with several hairs on lateral surface in addition to a circlet of similar hairs in centre. Male: posterolateral margin of tergite 5 with many setae (fig. 78). Surstylus with two forks. Width of lower fork less than quarter of its length (figs. 79, 80). Length of body: 5.3-7.0 mm. Length of wing: 3.9-4.6 mm.

Distribution: Nigeria, Zaire.

Note: The species is named in honour of Dr. Jan Zuska, who has made such a valuable contribution to the study of Sepsidae, including the species of the Afrotropical Region.

Acknowledgements

I wish to thank the following persons for loan of type and other material: Dr. R. CHAHWANDA (NHMZ), Dr. E. DE CONINCK (MRAC), Dr. A. FREIDBERG (TAU), Dr. D.A. GRIMALDI (AMNH), Dr. P. GROOTAERT (IRSNB), Dr. C. LEONARDI (MCSN), Dr. A.L. NORRBOM (USNM), Dr. A.C. PONT and Mr. B.R. PITKIN (BMNH), Dr. H. SCHUMANN (MNHU).

I am particularly grateful to Dr. A.C. PONT for his painstaking reading of the manuscript and making useful suggestions and corrections.

I also thank Dr. J. ZUSKA for discussion of Paratoxopoda.

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