



6. Arista plumose or pectinate, with pile (rays) at least twice as long as basal diameter of arista (MND fig. 28); thorax with bristles; scutellum with a shallow to deep medial excavation. Eye pilose. . . . . Key X (Volucellines)  
-- Arista bare (MND figs 15, 19); body without bristles; scutellum convex, without medial excavation. . . . . 7
7. Transverse suture complete; anepisternum not differentiated into anterior flatten and posterior convex portions; oral margin evenly rounded, not notched anteromedially; head with occiput developed dorsally and with distinct indentation on dorsal 1/3. . . . . **Spheginobaccha**  
-- Transverse suture not complete; antepisternum differentiated into anterior flatten and posterior convex portions; oral margin notched anteromedially; occiput simple, not as such. . . . . 8
8. Femora with distinct ventroapical spines (MND fig. 52); vein R 4+5 with last section much less than half as long as crossvein h or absent; cell R 4+5 closed at wing margin, not petiolate. anterior anepisternum pilose posterodorsally; scutellum triangular. . . . . **Myolepta**  
-- Anterior femora without distinct ventral spines; vein R 4+5 with last section longer than crossvein h and usually longer than crossvein r-m; scutellum not triangular, rounded apically. . . . . 9
9. Anterior anepisternum pilose posterodorsally. . . . .  
-- Anterior anepisternum bare. . . . . Key K (Eumerines) 11
10. Metafemur with a anterobasal patch of short dense black setulae (MND fig. 53). . . . . 12  
-- Metafemur without patch of setulae (MND figs 86, 88). . . 11
11. Vein M1 perpendicular or recessive in respects to vein R 4+5 (MND fig. 53); eye frequently with pattern; abdomen short, oval; legs simple. . . . . Key J (Brachyopines)  
-- Vein M1 processive in respects to vein R 4+5 (MND fig. 54); eye always unicolorous; abdomen elongate, parallel sided. . . . . Key I (Milesiines)
12. Cell R1 petiolate (MND fig. 60). . . Key E (Eristalines)  
-- Cell R1 open, without petiole (MND fig. 59). . . . . Key D (Helophilines)

13. Tergum 1 greatly reduced, frequently almost linear on disc and practically covered by scutellum, sublaterally at most 1/2 as long as tergum 2 (MND fig. 98); terga not punctate. Length 6.7 mm or more. . . . . Syrphines (key F)
- Tergum 1 well-developed, especially on disc where it is frequently 1/2 as long as tergum 2 and always extends well beyond scutellum, sublaterally about 3/4 as long as tergum 2 (MND fig. 97; terga minutely punctate. Length 7.5 mm or less . . . . . Paragines (key H)

## Section A

## \*\*\* Ceriodines \*\*\*

- A1. Postmetacoxal bridge present (MND fig. 8); metathoracic pleuron either completely fused or adjacent posterior to metacoxae. . . . . **Polybiomyia**
- Postmetacoxal bridge absent, broadly membranous posterior to metacoxae. . . . . A2
- A2. Frontal prominence absent or much shorter than scape (MND fig. 12). . . . . **Sphiximorpha**
- Frontal prominence present, at least as long as scape (MND fig. 13). . . . . A3
- A3. Vein R4+5 with a spur into cell R4+5; abdomen not petiolate. . . . . **Ceriana**
- Vein R4+5 without a spur; abdomen petiolate. **Monoceromyia**

## Section B

## \*\*\* Microdontines \*\*\*

NEW VERSION, modified from Reemer (Reemer &amp; Stahl 2013)

- B1. Vein R4+5 without an appendix. . . . . ***Afromicrodon***
- Vein R4+5 with an appendix. . . . . B2
- B2. Postpronotum bare. . . . . B14
- Postpronotum pilose. . . . . B3
- B3. Basoflagellomere greatly elongate, 4 or more times longer than scape, narrow, 6 or more times longer than broad; scutellum unarmed. . . . . B6
- Basoflagellomere shorter. . . . . B4
- B4. Scutum and scutellum joined at blunt angle of approximately 120 degrees; scutellum with posterior corner developed into massig pointed cones [Madagascar only]. . . . . ***Megodon***
- Scutum and scutellum joined at even level; scutellum without such massig cones. . . . . B5
- B5. Scutellum recessed apically, with parallel rounded and flattened platelet (=Plattchen) [Madagascar only]. . . . . ***Hovamicrodon***
- Scutellum rounded apically or with simple spines or conical projections [Widespread]. . . . . B6

**following couplets based on Reemer & Stahls (2013)**

- B6. Anepisternum extensively pilose, entirely pilose or with bare areas limited to ventral half. . . . . ***Metadon***
- Anepisternum extensively bare, bare dorsad to midline. B7
- B7. Propleuron pilose. . . . . ***Microdon***
- Propleuron bare. . . . . B8
- B8. Cell R4+5 with postero-apical angle widely rounded (sometimes with a small appendix). . . . . ***Microdon (erythos group)***
- Cell R4+5 with postero-apical angle more or less rectangular or acute (usually with small appendix). . . . . B9
- B9. Antenna shorter than face (distance between antennal fossa and oral margin). . . . . ***Archimicrodon***
- Antenna as long as or longer than face. . . . . B10
- B10. Occiput dorsally widened (even if only slightly); eye margin dorsally diverging from posterior margin of head. . . . . ***Archimicrodon***
- Occiput evenly narrow over entire length; eye margin dorsally parallel to posterior margin of head. . . . . B11

- B11. Male: Metatarsus with basitarsomere with wide longitudinal groove dorsally, narrow, at most 1.5 times as wide as apex of tibia. . . . . **Megodon**
- Male: Metabasitarsomere without longitudinal groove, strongly swollen, about twice as wide as tibial apex. . . . . **Microdon tarsalis**
- B12. Basoflagellomere bare; arista normal, elongate, thin; scape short. Abdomen suboval. . . . . **Myiacerapis**
- Basoflagellomere covered with long pile in male; arista reduced, short, thick; scape long. . . . . B13
- B13. Transverse suture complete; abdomen petiolate; facial groove indistinct; male basoflagellomere twice angulate. . . . . **Ceratrichomyia**
- Transverse suture incomplete, absence medially; abdomen oval; face with distinct oblique groover running ventrad from lunule to eye; basoflagellomere straight. . . . . **Ptilobactrum**
- B14. Transverse suture complete; terga 3 and 4 free, not fused; male basoflagellomere with long pile. . . . . **Ceratrichomyia**
- Transverse suture incomplete, interrupted medially; terga 3 and 4 fused; male basoflagellomere bare. . . . . **Paramixogaster**

Key to the subfamily Microdontinae, Tribe Microdontini  
old version (Cheng & Thompson 2008)

- B1. Vein R4+5 without an appendix. . . . . **Afromicronodon**  
-- Vein R4+5 with an appendix. . . . . B2
- B2. Basoflagellomere greatly elongate, 4 or more times longer than scape, narrow, 6 or more times longer than broad; scutellum unarmed. . . . . B6  
-- Basoflagellomere shorter. . . . . B3
- B3. Abdomen petiolate; 2nd segment elongate, narrower medially than basally or apically, narrower than 3rd segment. . . . . **Paramixogaster**  
-- Abdomen not petiolate, parallel-sided to oval; 2nd segment short, never narrower medially than basally, always broader than 3rd segment. . . . . B4
- B4. Scutum and scutellum joined at blunt angle of approximately 120 degrees; scutellum with posterior corner developed into massig pointed cones [Madagascar only]. . . . . **Megodon**  
-- Scutum and scutellum joined at even level; scutellum without such massig cones. . . . . B5
- B5. Scutellum rounded apically or with simple spines or concial projections [Widespread]. . . . . **Microdon**  
-- Scutellum recessed apically, with parallel rounded and flattened platelet (=Plattchen) [Madagascar only]. . . . . **Hovamicrodon**
- B6. Basoflagellomere covered with long pile in male; arista reduced, short, thick style; scape long. . . . . B8  
-- Basoflagellomere bare; arista normal, elongate, thin; scape short. . . . . B7
- B7. Abdomen petiolate. . . . . **Paramixogaster**  
-- Abdomen suboval. . . . . **Myiacerapis**
- B8. Arista absent; male basoflagellomere twice angulate. . . . . **Ceratrichomyia**  
-- Arista present; basoflagellomere straight. . . . . **Ptilobactrum**









- E9. Frons smooth, not rugose; male dichoptic. . . . . **Simoides**
- Frons with strongly rugose area dorsal to antenna; male holoptic. . . . . E10
- E10. Metafemur simple. . . . . **Phytomia**
- Metafemur with apicoventral spur or plate. . . . **Dolichomerus**
- E11. Eye pilose. . . . . E13
- Eye bare. . . . . E12
- E12. Male metafemur slender, with apicolateral ventral spur near apex, without a basolateral black setal patch. . . . . **Milesia**
- Male metafemur enlarged, with basolateral tubercle, with a distinct patch of black setulae basolaterally. . . . . **Senaspis**
- \*\*\* *flaviceps* Macquart [=apophysata Bezzi, n. syn.]
- E13. Metafemur greatly swollen; cell R1 bulbous apically; ♂ dichoptic. . . . . **Meromacroides**
- Metafemur not greatly swollen; cell R1 not bulbous apically; ♂ holoptic. . . . . E14
- E14. Metatibia not compressed nor carinate; wing bare apically. . . . . **Eoseristalis**
- Metatibia compressed and carinate on basoventral 1/3; wing usually microtrichose on apical 1/3 or more. . . . . **"Eristalis" plumipes** group

## Section F

## \*\*\*\*\* Syrphines \*\*\*\*\*

- F1. Abdomen parallel-sided (Fig. 90) to oval, never distinctly petiolate. . . . . F3  
-- Abdomen elongate, strongly petiolate (Figs 89, 91); 2nd tergum narrower than 3rd tergum. . . . . F2
- F2. Laterotergum pilose, at least with a patch of long pile dorsally; postpronotum and/or anterior anepisternum pilose; metepisternum pilose; scutum usually with a well-develop collar of longer pile on anterior margin.. . . **Allobaccha**  
-- Laterotergum, anterior anepisternum, metepisternum all bare; scutum without pile collar. . . . . **Pseudodorus**

???? = Status in Afrotropical Region ????

- \*\*\* With a postmetacoxal bridge. . . . . **Baccha**  
-- Wing margin with a series of minute closely spaced black maculae on posterior margin; anterior anepisternum pilose. . . . . **Asiobaccha**

However, I do not believe either genus occurs in the Afrotropics

- F3. Face and scutellum entirely black in background color. Abdomen usually without marginal sulcus. Metasternum bare. Eye bare. . . . . G1
- \*\*\* *Pelloloma* has weak marginal sulcus on 4th & 5th terga  
-- Face or scutellum or both at least partly yellow or yellowish brown in background color, both never entirely black. If in doubt, eye pilose. Abdomen, metasternum, and eye variable. . . . . F4
- F4. Antenna short, shorter than head; basoflagellomere at most twice as long as broad; scape and pedicel not longer than board. . . . . F6  
-- Antenna elongate, longer than head; basoflagellomere at least three times as long as board; scape or pedicel longer than broad (Fig. 3). . . . . F5
- F5. Metafemur and metatibia without pile brushes; eye densely long pilose; scape and pedicel subequal; abdomen strongly convex dorsally, strongly margined; vein R4+5 sinuate, looped into cell R4+5; calypter bare. . . . . **Chrysotoxum**  
-- Metafemur and metatibia with brushes of long pile; eye sparsely and short pilose; scape about 3 times as long as pedicel; abdomen not convex nor with marginal sulcus; vein R4+5

- straight; calypter pilose on ventral lobe. . . **Afrosyrphus**
- F6. Calypter with lower lobe pilose, especially on posteromedial portion (Fig. ); metacoxa with a tuft of strong pile at posteromedial apical angle. . . . . **Betasyrphus**  
-- Calypter bare. . . . . F7
- F7. Anterior anepisternum bare; Wing margin without such maculae . . . . . F9  
-- Anterior anepisternum pilose at least posterodorsally (Figs ); wing margin with a series of minute closely spaced black maculae on posterior margin (Fig. ...). . . . . F8
- F8. Metasternum pilose; metepisternum pilose ventrad to spiracle . . . . . **Episyrrhus**  
-- Metasternum bare; metepisternum bare. . . . . **Meliscaeva**
- F9. Abdomen without marginal sulcus. . . . . F15  
-- Abdomen with at least a weak marginal sulcus on terga 4 and 5, often with a strong sulcus on terga 3-5. . . . . F10
- F10. Metapleuron bare ventrad to spiracle; metasternum variable. Vein R 4+5 straight or sinuate. Size and shape variable. . . . . F12  
-- Metapleuron with a tuft of fine pile ventrad to spiracle; metasternum pilose. Large species with broad flattened abdomens with distinct marginal sulcus. . . . . F11
- F11. Mesonotum anteriorly with a distinct collar of longer and denser pile; vein R4+5 sinuate, distinctly looped into cell R4+5. . . . . **Asarkina**  
-- Mesonotum without a collar of pile; vein R4+5 nearly straight . . . . . **Achoanrus**
- F12. Eye densely pilose; metacoxa with tuft of strong pile at posteromedial apical angle. . . . . **Betasyrphus**  
-- Eye bare; metacoxal without such a pile tuft. . . . . F13
- F13. Metasternum pilose; wing densely microtrichose on apical 1/3; scutum dark laterally; male metacoxa simple. . . . **Eupeodes**  
-- Metasternum bare; wing extensively bare, with only sparse scattered microtrichia on apical 1/3. . . . . F14

- F14. Scutum with well-defined bright yellow lateral vitta, extending from postpronotum to scutellum; male metacoxa usually with ventral spine-like process; medium sized species (less than 10 mm), narrow abdomen. . . . . **Ischiodon**
- Scutum with ill-defined yellow lateral vitta; male metacoxa simple; large sized species (12 mm or more); broad abdomen. . . . . **Scaeava**
- \*\*\* The common widespread species have male metacoxa armed. The endemic Cape Verde species has it unarmed
- F15. Scutum with lateral yellow vitta extending from postpronotum to scutellum. . . . . F17
- Scutum with lateral yellow vitta not extending beyond suture . . . . . F16
- F16. Face with broad black vitta; subscutellar fringe well-developed except on medial 1/3; male genitalia small, with tergum 9 at most 1/2 as wide as abdomen; female 5th tergum with distinct yellow maculae which are isolated from lateral margins. . . . . **Exallandra**
- Face yellow; subscutellar fringe absent; male genitalia large and globose, with tergum 9 as wide as abdomen; female 5th tergum either without yellow maculae or yellow maculae broadly reach lateral margin. . . . . **Sphaerophoria**
- F17. Subscutellar fringe complete, densely; male holoptic; male genitalia small, inconspicuous, with tergum 9 at most 1/2 as wide as abdomen; female face without carina (widespread, but not St. Helena). . . . . **Allograptia**
- Subscutellar fringe absent; male dichoptic; male genitalia large and globose, with tergum 9 as wide as abdomen; female face with a distinct median carina extending from antenna to tubercle (St. Helena only). . . . . **Loveridgeana**

## Section G

## \*\*\* Melanostomines \*\*\*

- G1. Metepisternum with some fine subappressed pile; katepisternum with pile patches broadly separated posteriorly, joined anteriorly (Fig. 42). Metacoxa with tuft of pile at posteromedial apical angle (as in fig. 48) . . . . . **Afroxanthandrus**
- Metepisternum bare; katepisternal pile patches broadly separated throughout (as in fig. 45) . . . . . G2
- G2. Metacoxa with tuft of pile at posteromedial apical angle (as in fig. 48); metafemur swollen, usually about 3 times as broad as tibia. Metasternum entire. . . . . **Pelloloma**
- Metacoxa without posteromedial apical pile tuft; metafemur simple, not swollen, about as broad as tibia. . . . . G3
- G3. Metasternum greatly reduced, with deep posterior incision laterally so that sclerotized portion consists of a median diamond-shaped area with a narrow anterior and lateral strips (MND fig. 70). Face not produced below, with small tubercle . . . . . **Melanostoma**
- Metasternum entire (MND fig. 71). Face almost straight with strong tubercle, slightly produced forward ventrally. . . . . **Afrostoma**

## Section H

## \*\*\* Paragines \*\*\*

- H1. Eye with pile of nearly uniform color, not forming vittae of contrasting color. Scutellum entirely black. . . . . **Pandasyopthalmus**
- Eye with pile arranged in 3 more or less vertical vitta or contrasting color. Scutellum black with apex narrowly yellow or reddish. . . . . H2
- H2. Scutellum with conspicuous dentis (teeth) on posterior margin; eye in dorsolateral view with two dark and three more distinct white pile fasciae. . . . . **Serratoparagus**
- Scutellum with apical margin simple, without dens; eye with two white pile fasciae among dark pile. . . . . H3
- H3. Terga 1-5 completely fused, at least laterally **Afroparagus**
- Terga 1-2 only fused completely. . . . . **Paragus**

## Section I

## \*\*\* Milesiines / Xylotines \*\*\*

- I1. Cell R1 petiolate. Metafemur with apicoventral spur. . . . . **Milesia**  
 -- Cell R1 open, without petiole. . . . . I2
- I2. Metasternum bare. Vein R4+5 strongly sinuate; scutellum with apical flatten rim; metafemur without basolateral black patch of setulae. . . . . **Afrolastes**
- \*\*\*\* for kenya, new species
- Metasternum pilose. . . . . I3
- I3. Metacoxa with long ventral "spurs;" scutellum with an apical flatten rim; vein r4+5 strongly sinuate. . . **Syrittosyrphus**  
 -- Metacoxa without spurs; scutellum without apical rim.. I4
- I4. Metafemur swollen, with a large apicoventral triangular plate, without distinct anterobasal setulae (Fig. ); metasternum with basal membranous seam. Male holoptic, face carinate (Fig. ). Female face concave. . . . . I6  
 -- Metafemur without apicoventral plate, with anterobasal patch of short dense black setulae; metasternum without a seam. Male holoptic or dichoptic, face tuberculate. Female face tuberculate or straight. . . . . D1
- I5. Metafemur simple, without such apicoventral projections, may have a low apicoventral carina. . . . . I8  
 -- Metafemur with apicoventral spur or triangular plate.. I6
- I6. Metafemur with a single apicoventral spur; metasternum without ventral membranous band; vein R4+5 angulate over cell R4+5, usually with a spur into cell R4+5. . . . . **Pogonosyrphus**  
 -- Metafemur with a large triangular apicoventral plate; metasternum divided into two part by a basal membranous band; vein R4+5 evenly curved, without spur. . . . . I7
- I7. Katepimeron pilose; metafemoral apicolateral plate notched to form a large spur and a small triangular tooth. . . . . **Calcaretropidia**  
 -- Katepimeron bare; metafemoral plate not notched, merely triangular produced. . . . . **Tropidia**
- I8. Wing almost bare on basal 2/3, very sparsely microtrichose on apical 1/3; scutellum without ventral pile fringe; metepisternum with a patch of fine pile; metafemur greatly enlarged, with an anteroventral spinose carina on apical 1/3 . . . . . **Syritta**

-- Wing entirely microtrichose or with just moderate bare areas on basally, densely and uniformly microtrichose on apical 1/3; metepisternum bare; metafemur not as such. . . . . "Xylota" **hancocki**

## Section J

## \*\*\* Brachyopines / Chrysogasterines \*\*\*

- J1. Sternum 1 shiny, metallic; vein M<sub>1</sub> recurved, curved basally; basoflagellomere usually at least twice as long as wide; metasternum usually pilose. . . . . **Orthonevra**
- Sternum 1 dull, pollinose; vein M<sub>1</sub> usually processive, directed apically, rarely curved very slightly basally; basoflagellomere at most 1.4 times as long as wide; metasternum bare. . . . . **Chrysogaster**

## Section K

## \*\*\* Eumerines / Merodontines \*\*\*

- K1. Cell R 4+5 divided by a crossvein between veins R 4+5 and M 1; katepisternum bare. . . . . ***Lyneborgimyia***
- Cell R 4+5 not divided; vein R 4+5 may have a spur, but not extending to vein M1 making a crossvein; katepisternum pilose dorsally. . . . . K2
- K2. Metafemur with apicoventral triangular plate on anterior face (Fig. ); anepimeron with triangular area pilose; vein R4+5 sinuate; apical portion of vein M without external spurs. . . . . ***Merodon***
- Metafemur only slightly swollen, without ventral plate; anepimeron with triangular area bare; vein R4+5 straight or sinuate; apical portion of vein M with usually with external spurs. . . . . K3
- K3. Pedicel greatly elongate, about 1.5 times as long as basoflagellomere. . . . . ***Amphoterus***
- Pedicel much shorter, never longer than basoflagellomere. . . . . K4
- K4. Vein M1 (apical crossvein) without spur at point of angulation; occiput greatly expanded and tumid. . . . . ***Megatrigon***
- Vein M1 with a spur at point of medial angulation; occiput only slightly expanded. . . . . ***Eumerus***

## Section X

\*\*\* Volucellines \*\*\*

- X1. Face with medial and 2 lateral tubercles; posterior anepimeron and katepimeron pilose; notopleuron enlarged and produced posteriorly; cell R1 closed and petiolate; male holoptic; vein M2 absent. . . . . **Ornidia**
- Face with only a medial tubercle; posterior anepimeron and katepimeron bare; notopleuron simple, not enlarged; cell R1 open, without petiole; male dichoptic; vein M2 present.. . . . . **Graptomyza**

## Notes on the keys:

The critical point that workers should note is that this is an identification key to the distinctive groups of adult flower flies. These groups may be genera, subgenera or just species groups. Their inclusion within the key does not implied a particular taxonomic rank. For example, the group *Pogonosyrphus* is included, whereas Hippa (1990) only recognized this as the *Milesia arnoldi* species group. A position I accept, but some of the Reemer (Reemer & Stahls 2013) microdontine groups, such as *Metadon* which I do not recognize.

The first 13 couplets breaks the syrphids into more or less higher groups. These Sections of keys for groups are as follows:

A => Cerioidines  
B => Microdontines  
C => Rhingines  
D => Helophilines  
E => Eristalines (SS)  
F => Syrphines (SS)  
G => Melanostomines  
H => Paragines  
I => Milesines / Xylotines  
J => Brachyopines / Chrysogasterines  
K => Eumerines  
X => Volucellines

Brachyopines => section J, couplets J1-  
Cerioidines => couplets A  
Eumerines are couplets K #42-45  
Eristalines (sensu stricto) couplets E #59-70  
Helophilines couplets D #54-58  
Melanostomines couplets G 31-33  
Microdontines => B  
Milesines / Xylotines => couplets I  
Paragines => couplet H  
Rrhingines => couplet (only Rhingia & Eorhingia)  
Syrphines (sensu stricto) couplets F #12-30  
Volucellines => section X, couplets X1

New genera

**Afrostoma** =>

this is now in Press (ZooTaxa). See footnote #1 below

FCT => new eristaline groups

**Afrolota** for *aperta* Bezzi

**Afrolastes** for new species kenya Thompson

**Afrophilus** for *Anasimyia* of Afrotropical catalog

**Congolota** for *pennata* Herve-Bazin

**Madlotia** for *meromacrimina* Hull

Change of status, etc.

*Senaspis* restricted to its type-species

*Triatylosus* for "Senaspis" of Bezzi & Curran and others

*Eristalis* restricted to *tenax* & *proserpina*

*Eoseristalis* for other "Eristalis" species

*Mallota* restricted to those species with pilose clypeus

*Eristalinus* recognized as having 4 subgenera

*Eristalinus*

*Eristalodes*

*Merodonoides*

*Oreristalis*

notes on taxonomy, etc.

1) Dick Vockeroth's new melanostomine genus. Dick told me years ago about a new genus as it did not have the typical reduced metasternum of *Melanostoma* and the male genitalia was also distinctive. This is now in press as *Afrostoma* (Skevington and FCT).

2) Years ago, Mario Bezzi (1915: 64) admitted that his "*Senaspis*" *apophysata* do not properly belong to the genus "*Senaspis*" and needed its own genus. Dick Vockeroth and I (Thompson 2003: 14) agreed. Unfortunately, when I recently checked the type of *Senaspis, flaviceps* Macquart, I discovered it was *apophysata* Bezzi (new synonym)! So, *Senaspis* is an monotypic endemic Madagascar group and the other species now need to be placed in *Triatylosus* Hull.

3) Dick Vockeroth when we (FCT & Vockeroth) worked out the World Eristalines (sensu stricto) came to slightly different conclusion on what warranted generic rank. He felt that the Afrotropical species of what is here called *Eoseristalis*, such as *plumipes* Bezzi, deserved generic rank.. *Eristalis* is restricted to *tenax* and the Oriental species, *proserpina*.

4) then there is "*Xylota*" *hancocki*, the only Afrotropical xylotine (sensu stricto) which has a pilose metasternum. I (FCT) am not happy with Hippa's (1978, 1985, 1985a) treatment of *Hovaxylota* Keiser. At best it should be ranked as a subgenus of *Xylota*, but when one looks at the aedeagii of the included species, one wonders whether the group is even monophyletic. So, the question is whether a name should be given to this atypic species or not. Future research will undoubtedly show that it is a distinctive group, but the question of rank will remain (species group or higher (subgenus / genus)).

5) Likewise, "*Mallota*" *aptera* Bezzi is atypical and distinctive from the other Afrotropical "*Mallota*." But then again most of Afrotropical "*Mallota*" are quite different from the Palaearctic type-species of *Mallota* (*Syrphus fuciformis* Fabricius), which has a pilose clypeus. So I have provided a new new group for *aptera*.

6) Then there are the other problem, like *pennata* Herve-Bazin, which Herve-Bazin himself indicated, did not readily fit into *Protylocera*. Hence, the new group, *Congolota*.

7) And the three Afrotropical species of *Lejops* of Curran & Hull [or *Helophilus* (*Anasimyia*) of the Afrotropical catalog] are unlike the other subgenera of *Lejops*. They run to *Arctosyrphus* in my key

(Thompson 2000: 377), but are obviously distinct. They also have postalar pile tuft like *Eristalinus*. So, again they are here recognized as *Afrophilus*, new.