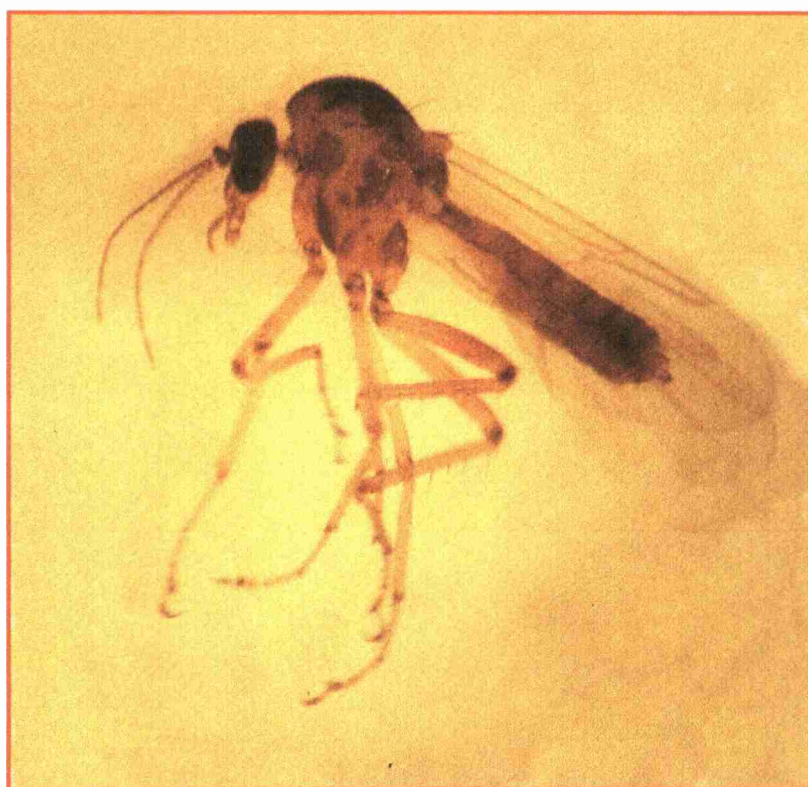


**Revisión Sistemática de las Especies
Americanas del Subgénero
Stilobezzia (*Acanthohelea*) Kieffer
(Diptera: Ceratopogonidae)**

Lic. Carla Gisela Cazorla

Tomo II



Director: Dr. Gustavo Spinelli

2009

**Universidad Nacional de La Plata
Facultad de Ciencias Naturales y Museo
División Entomología, Museo de La Plata**

Tomo II

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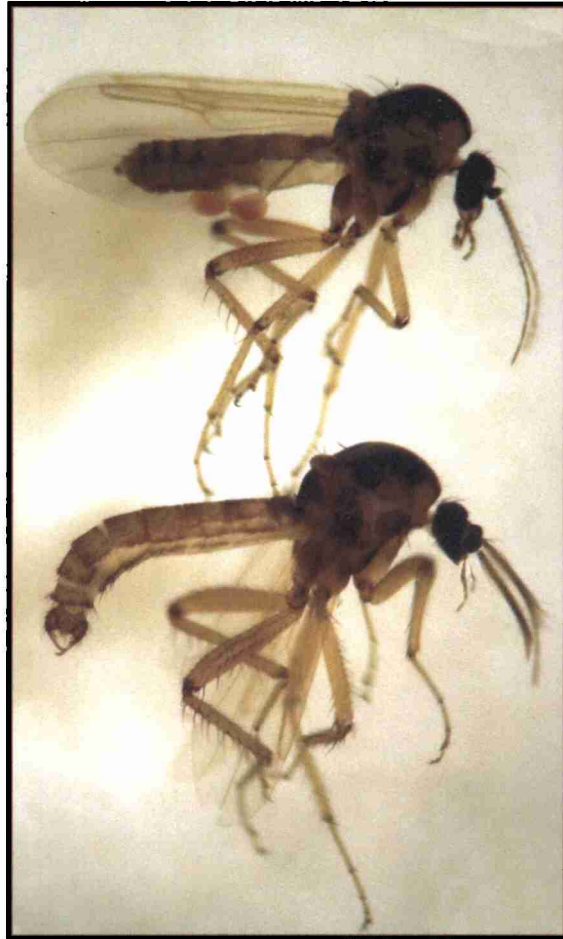


Lámina 1: *Stilobezzia (Acanthohelea) varia* Ingram & Macfie, hembra y macho: vista general.

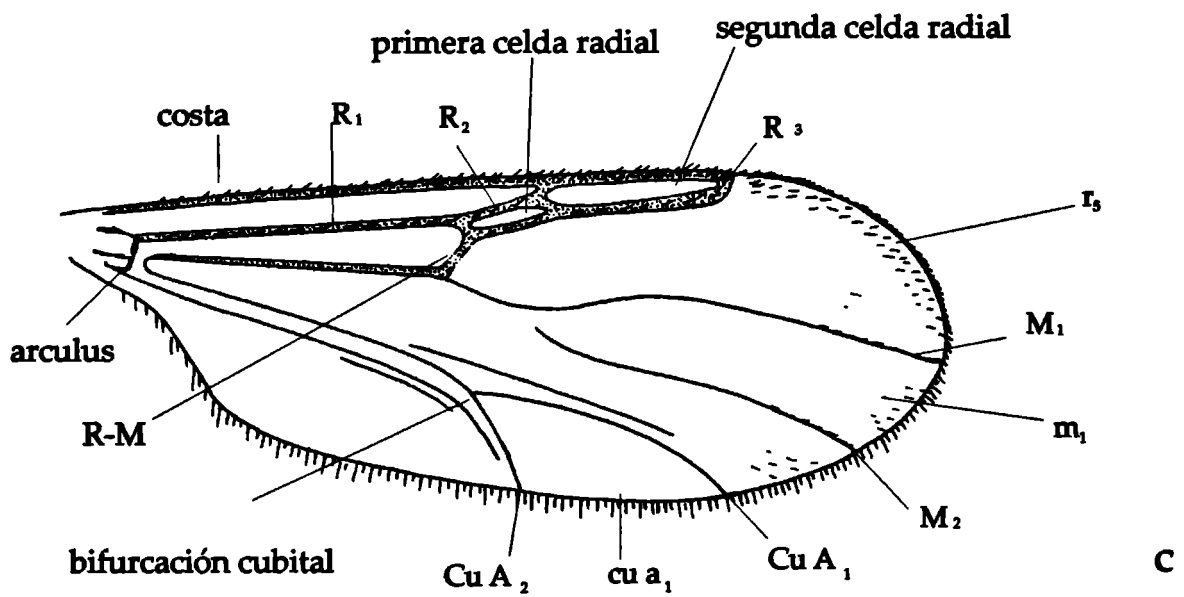
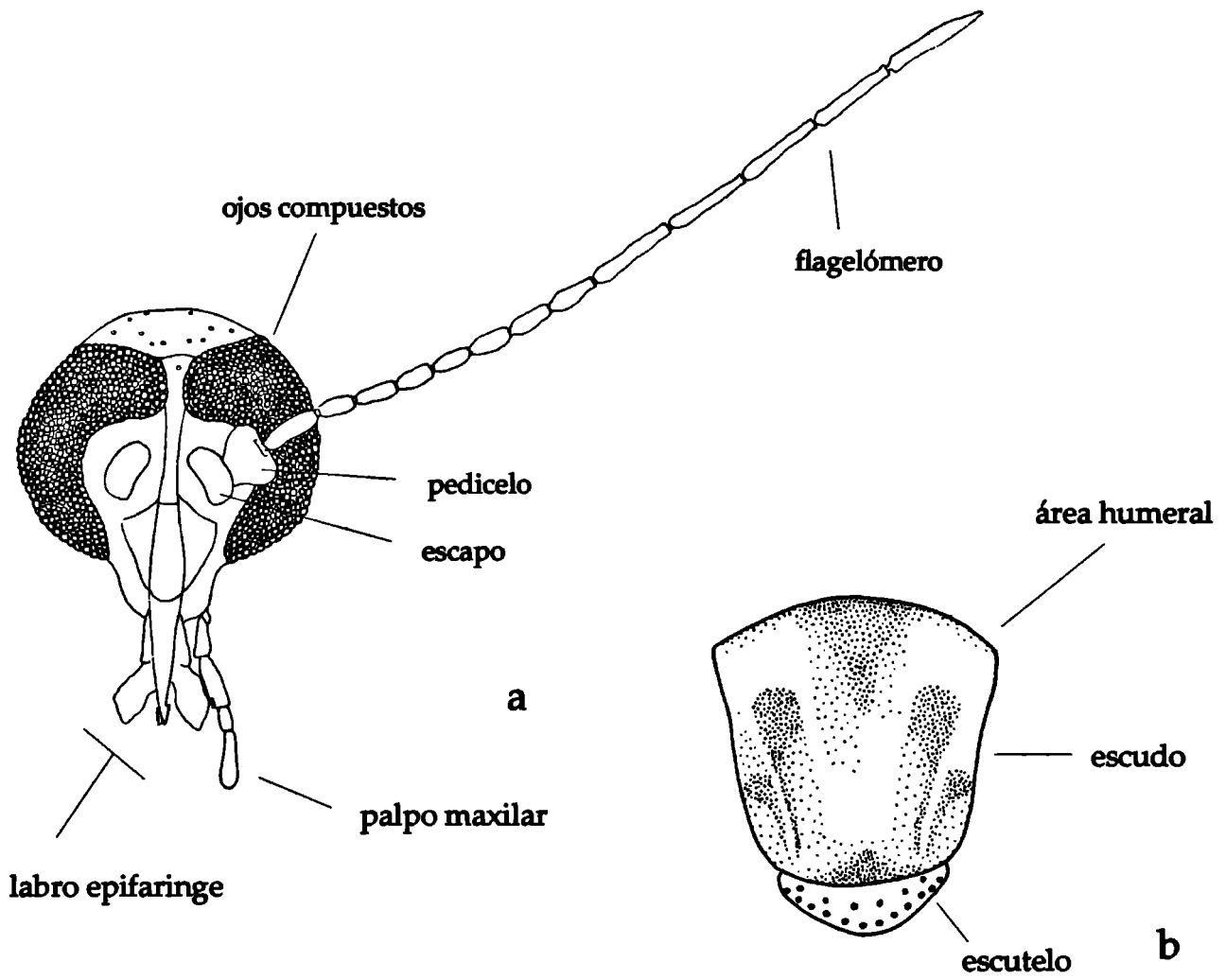


Lámina 2: *Stilobezzia (Acantohelia)* sp. hembra: a, cabeza; b, tórax; c, ala.

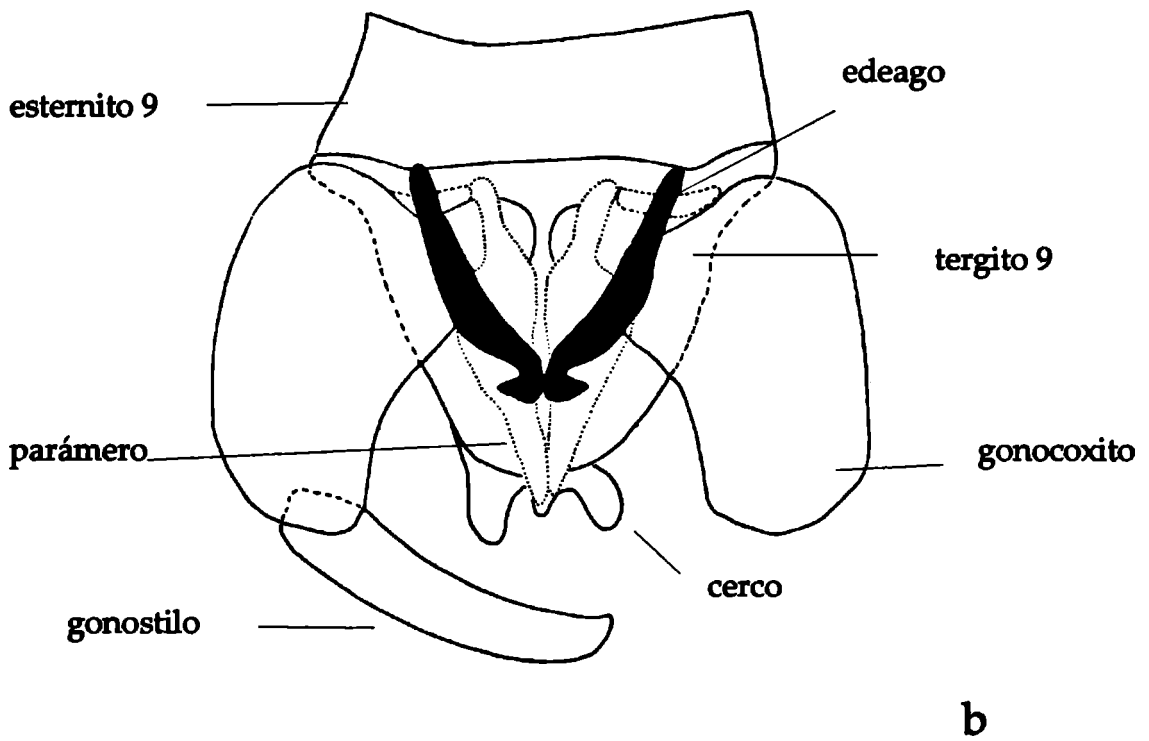
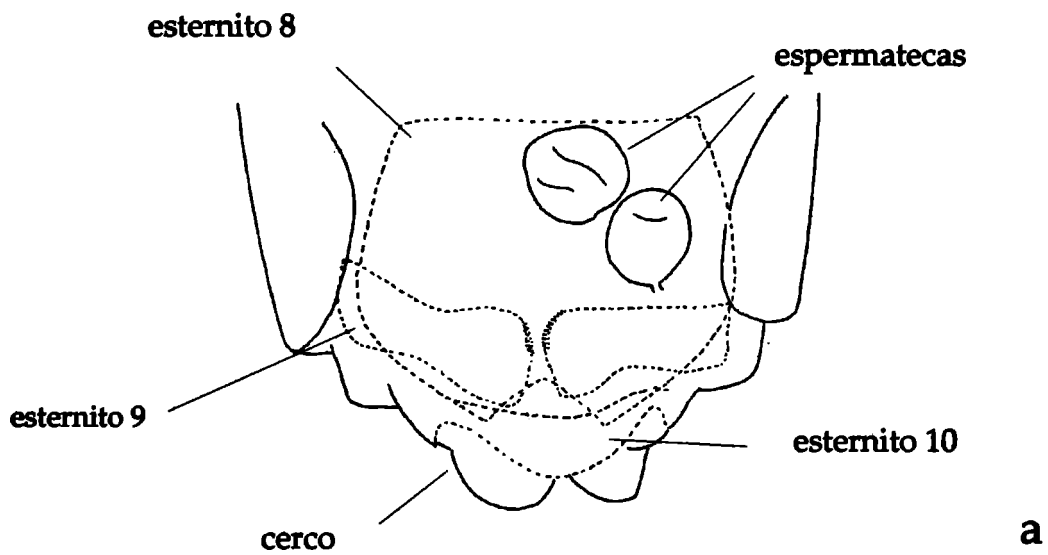
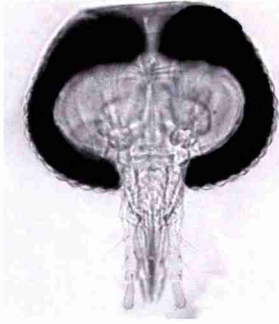
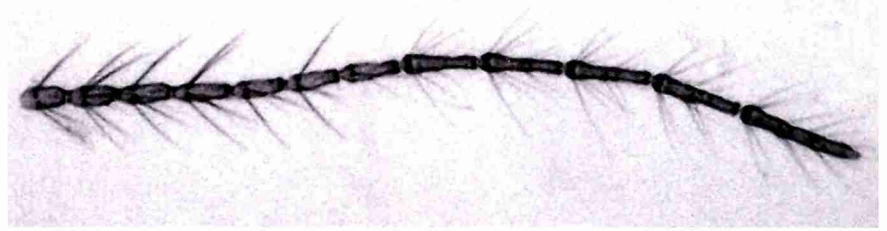


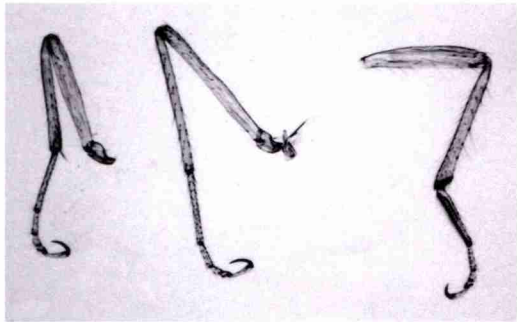
Lámina 3: *Stilobezzia (Acantohelia)* sp.: a, genitalia hembra; b, genitalia macho.



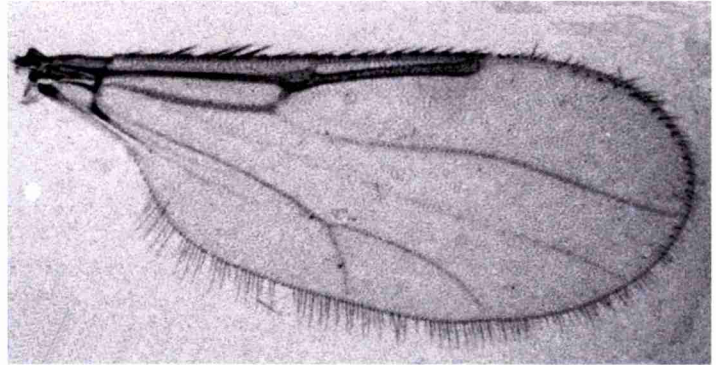
a



b



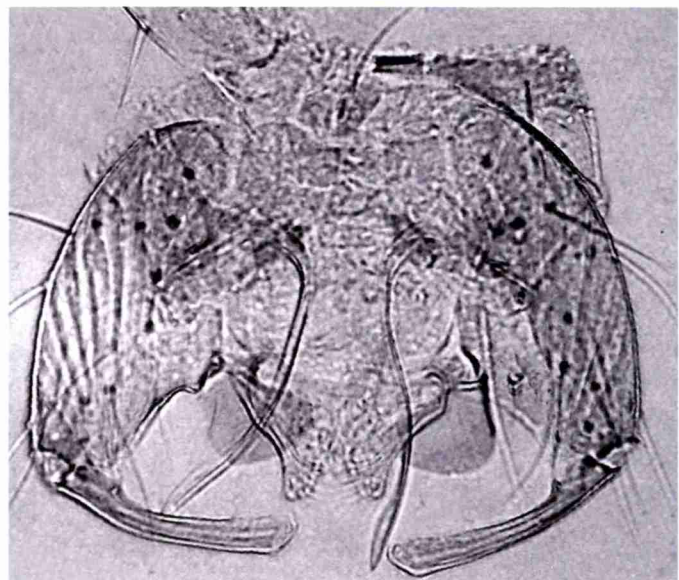
c



d



e



f

Lámina 4: *Stilobezzia* (A.) *amazonica* Clastrier, hembra: a, flagelo; b, cabeza; c, patas; d, ala ; e, espermateca; macho: f, genitalia.

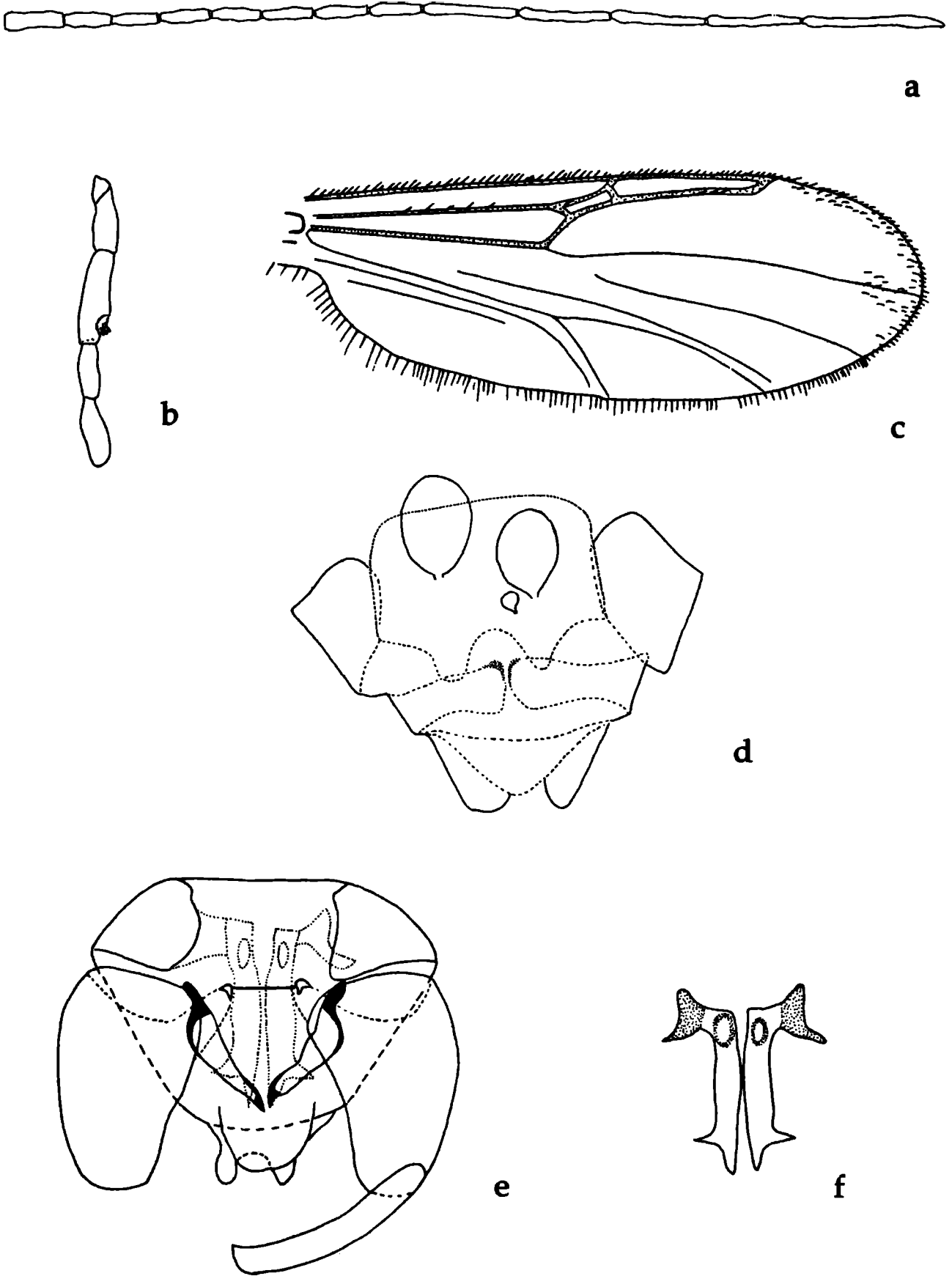


Lámina 5: *Stilobezzia* (A.) *atrachopogon* Lane & Forattini, hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

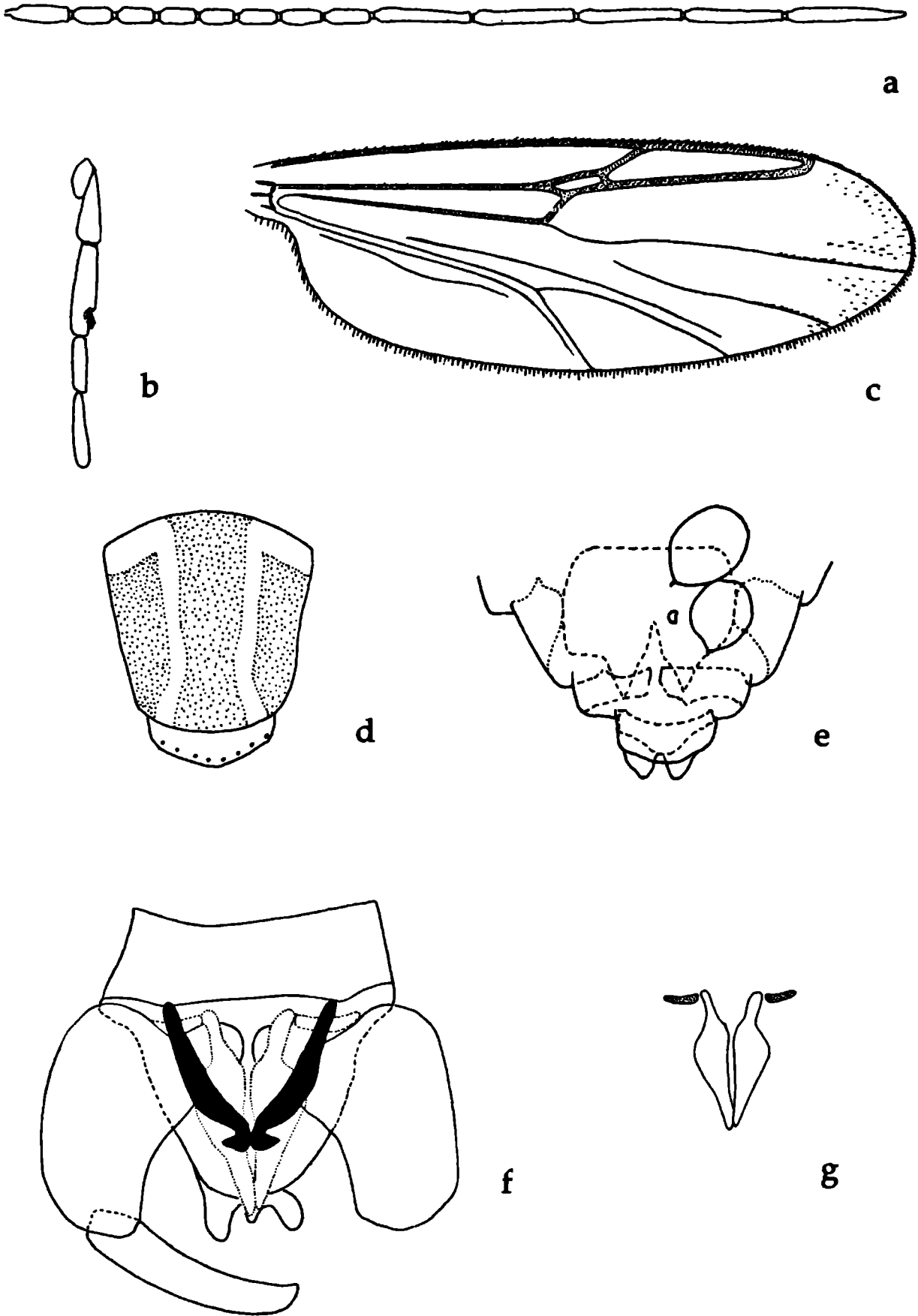


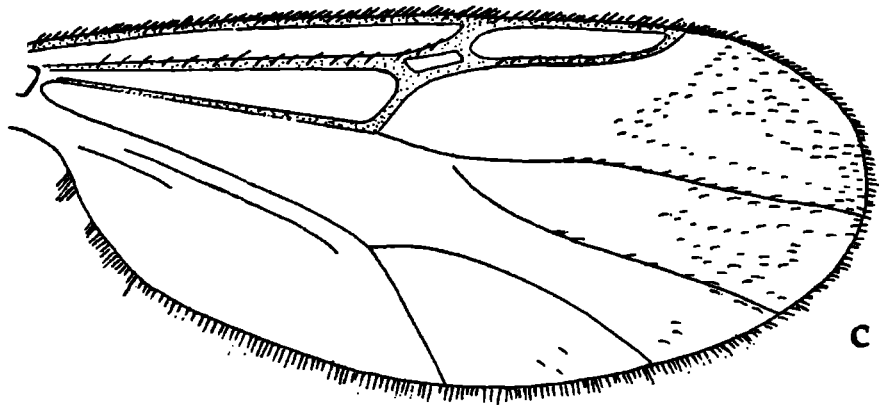
Lámina 6: *Stilobezzia* (A.) *bicinctipes* Ingram & Macfie, hembra: a, flagelo; b, palpo maxilar; c, ala; d, detalle del escudo; e, genitalia; macho: f, genitalia; g, parámetros.



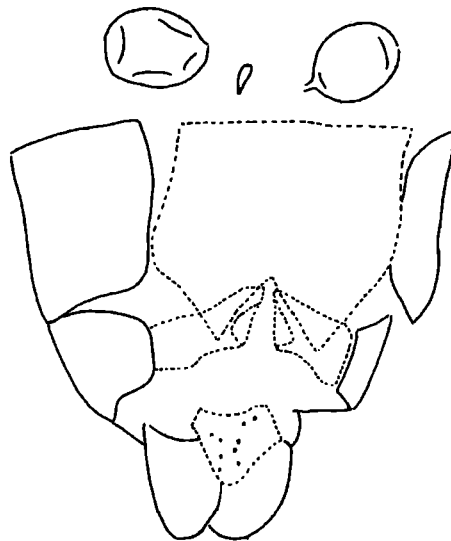
a



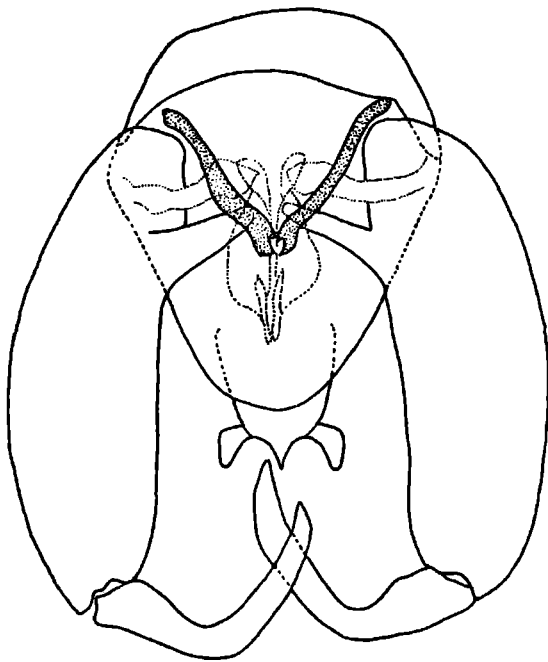
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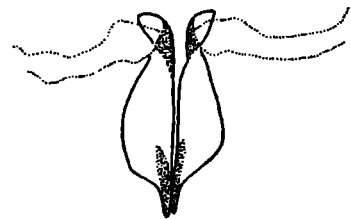
c



d



e



f

Lámina 7: *Stilobezzia* (A.) *curvistyla* Cazorla & Spinelli, hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

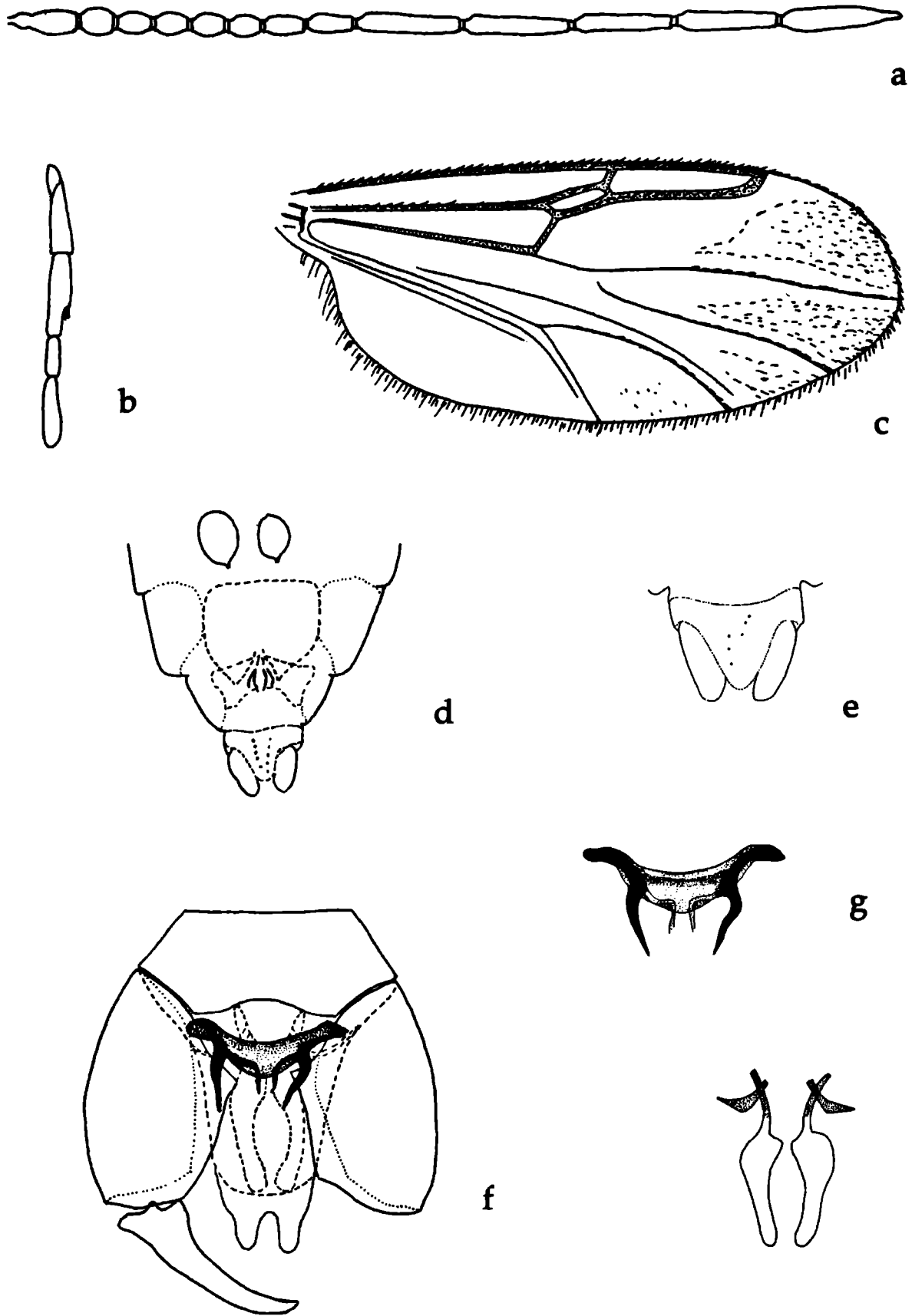


Lámina 8 : *Stilobezzia (A.) edwardsi* Ingram & Macfie, hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; e, detalle de esternito 10 y cercos; macho: f, genitalia; g, eedeago ; h, parámetros.

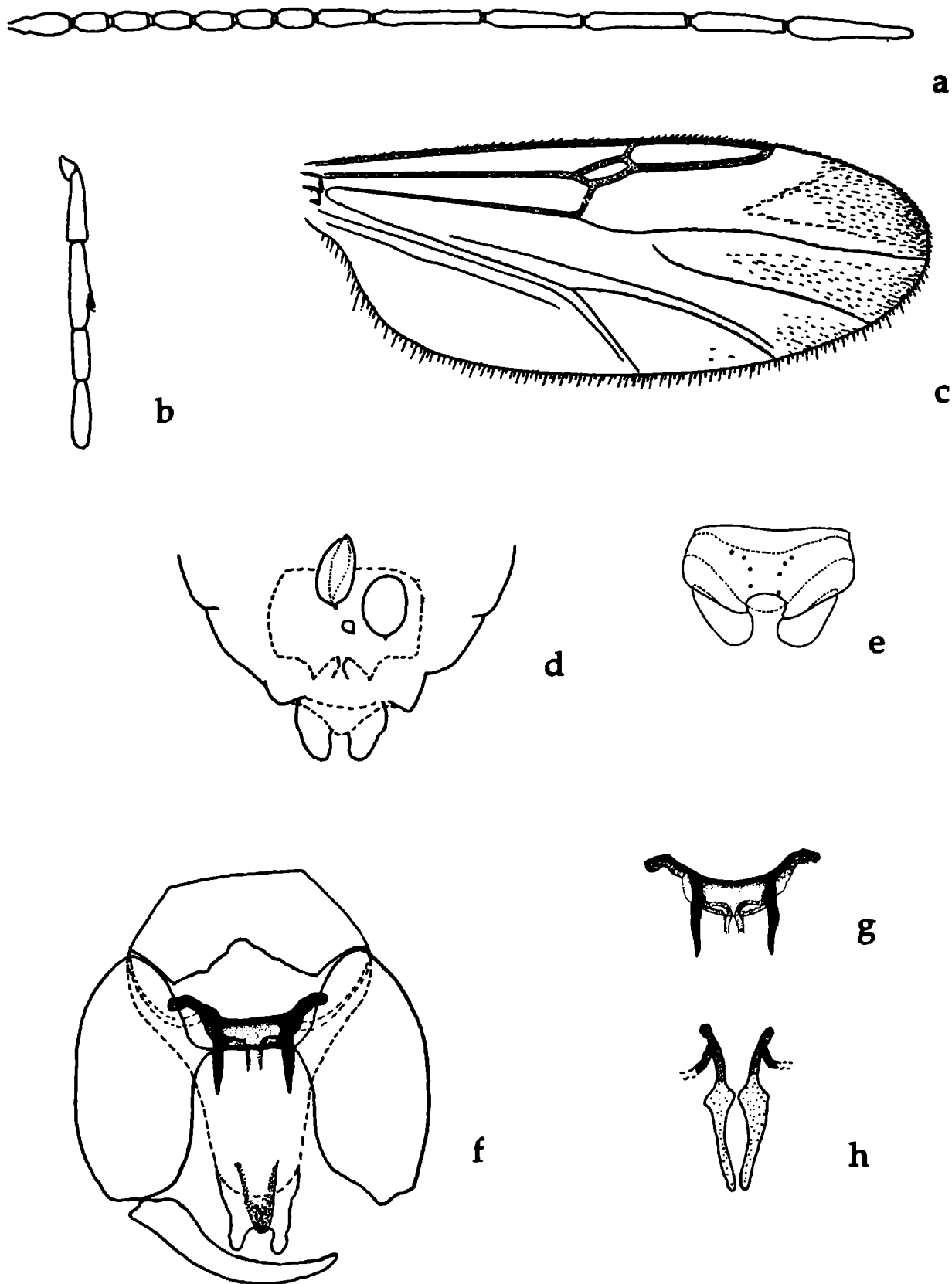


Lámina 9: *Stilobezzia (A.) furva* Ingram & Macfie; hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; e, detalle del esternito 10 y cercos; macho: f, genitalia; g, edeago; h, parámetros.

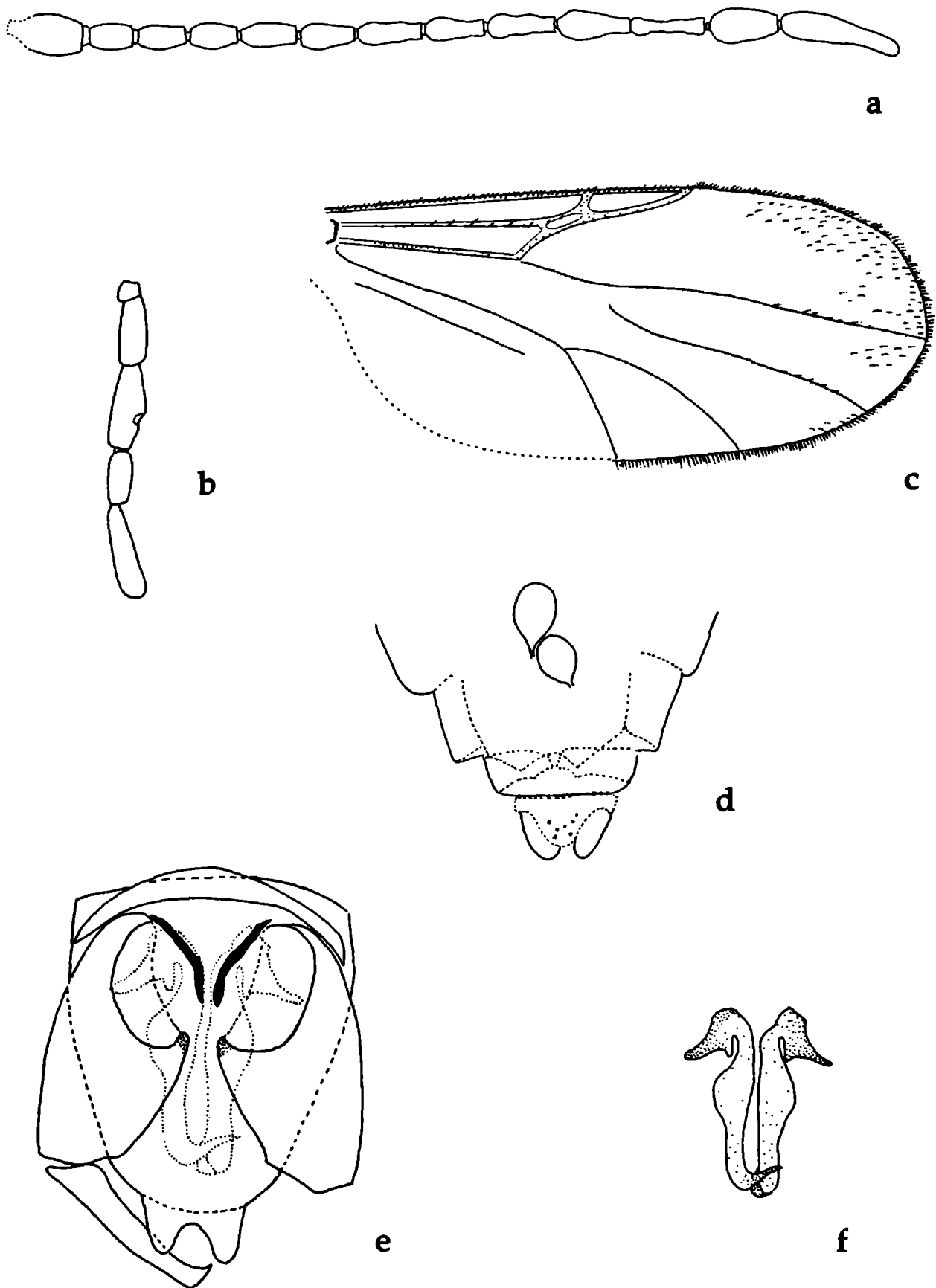


Lámina 10: *Stilobezzia (A.) fuscula* Wirth, hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

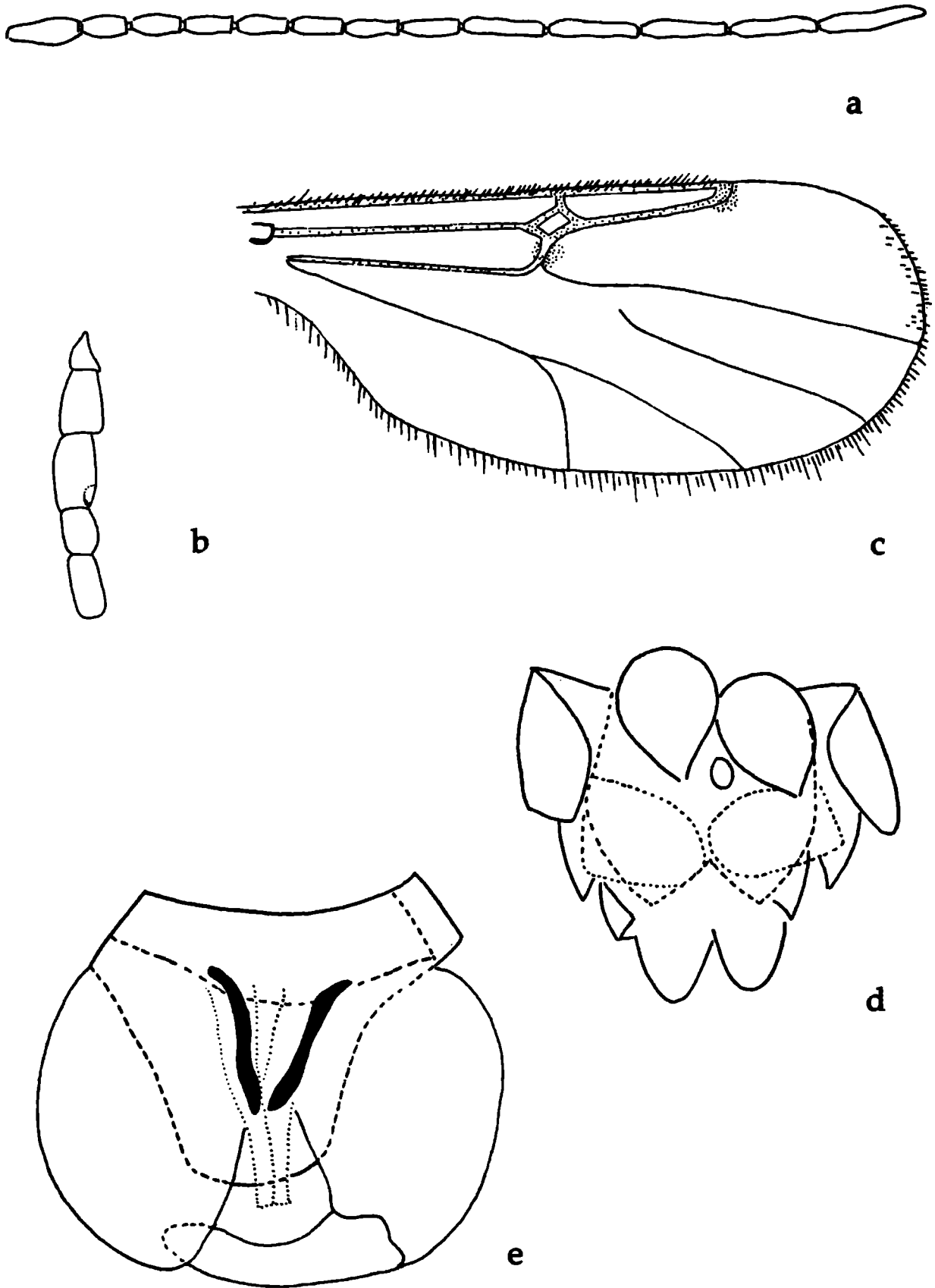


Lámina 11: *Stilobezzia* (A.) *guianae* (Macfie), hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia f, parámetros.

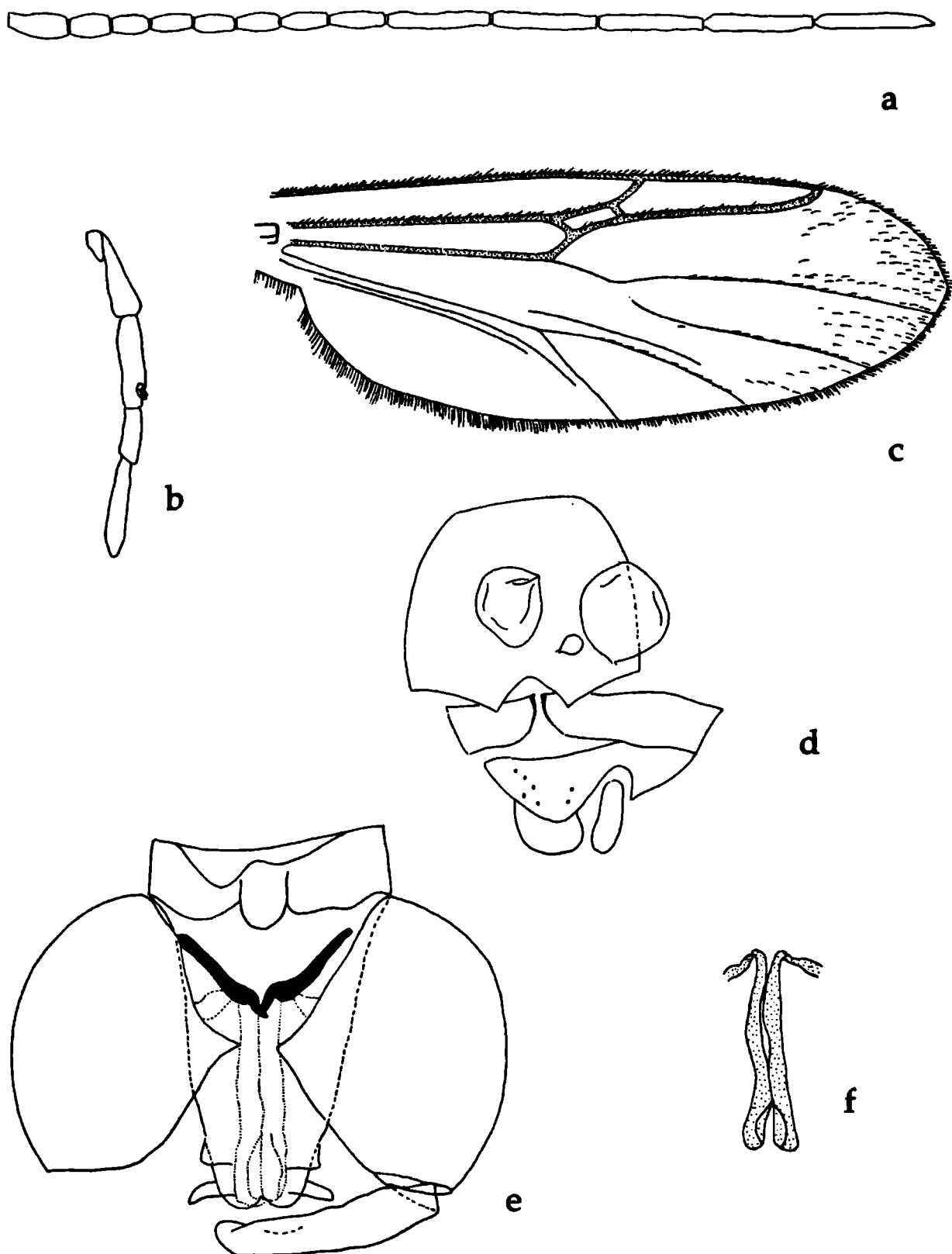


Lámina 12: *Stilobezzia* (A.) *hirsuta* Ingram & Macfie, hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

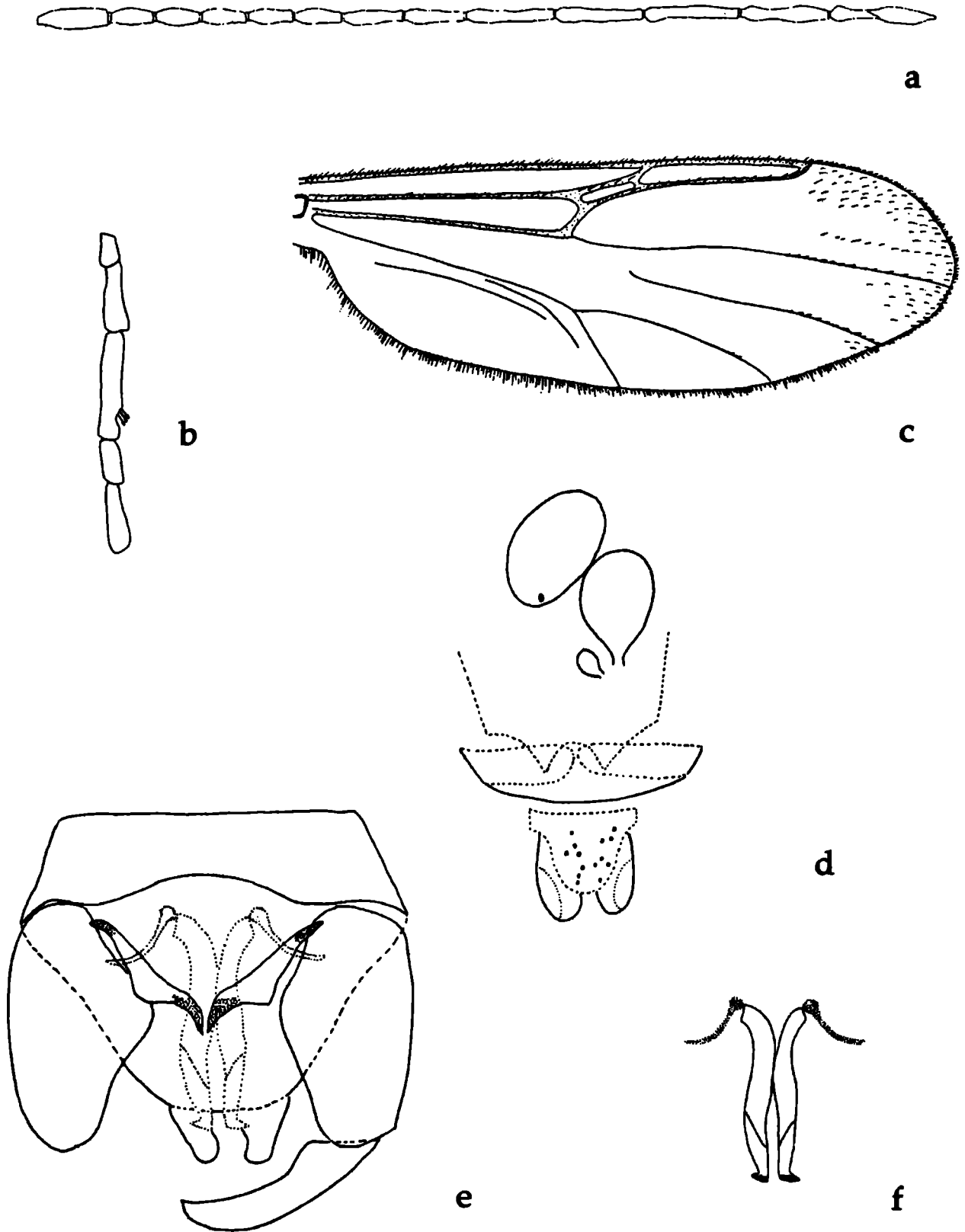
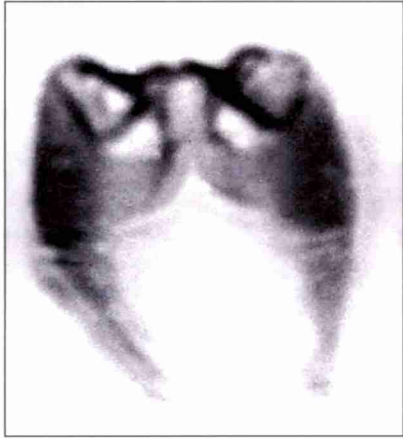
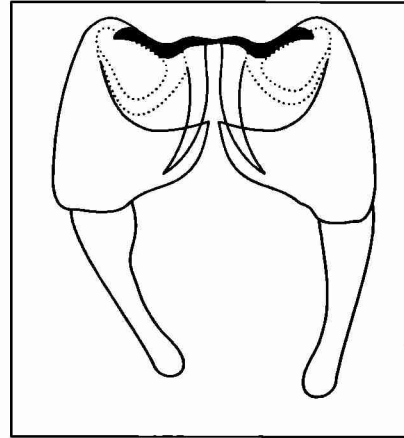


Lámina 13: *Stilobezzia* (A.) *lutea* (Malloch), hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

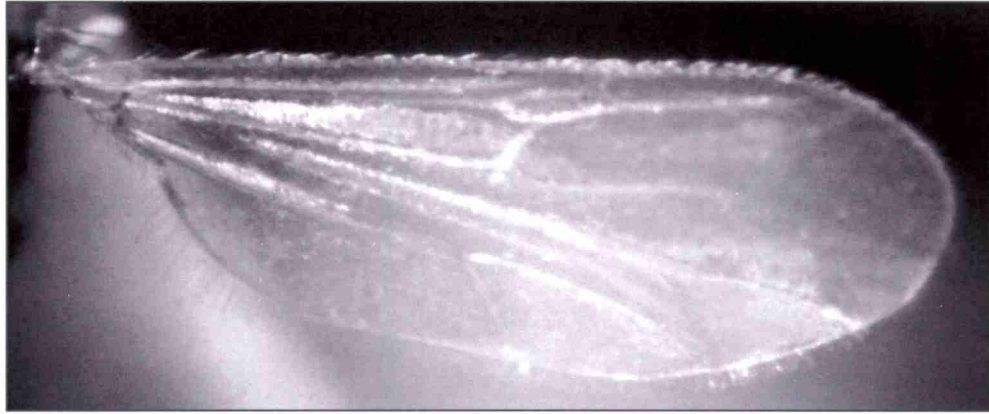


a



b

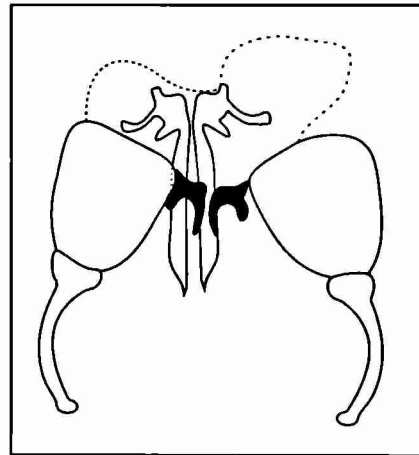
Lámina 14: *Stilobezzia (A.) maia* Lane & Forattini, macho: a, fotografía genitalia (paratipo); b, esquema de la genitalia.



a



b



c

Lámina 15: *Stilobezzia (A.) manaosensis* Lane & Forattini, paratipo hembra: a, ala; paratipo macho: b, genitalia.

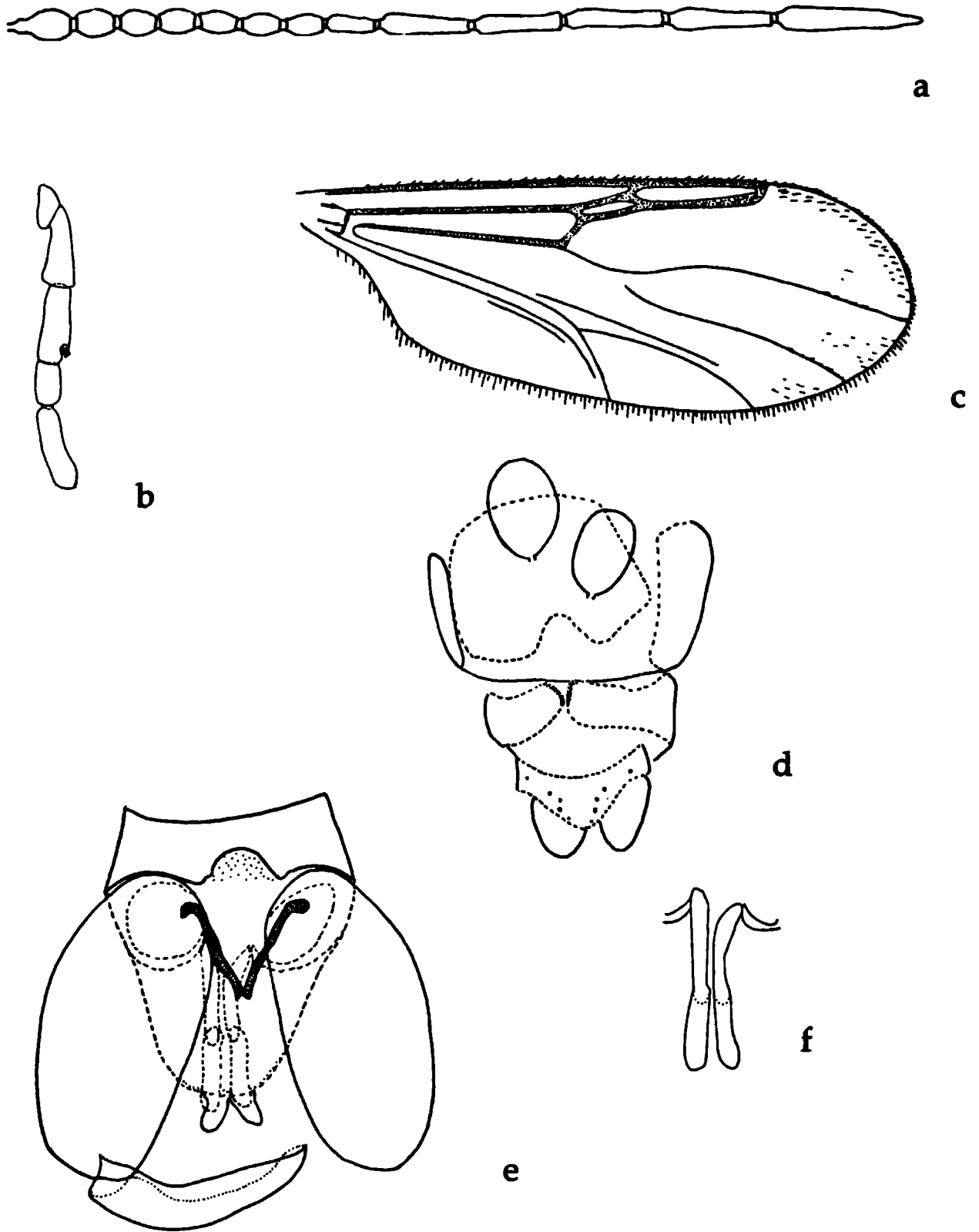


Lámina 16: *Stilobezzia* (A.) *nigerrima* Ingram & Macfie, hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

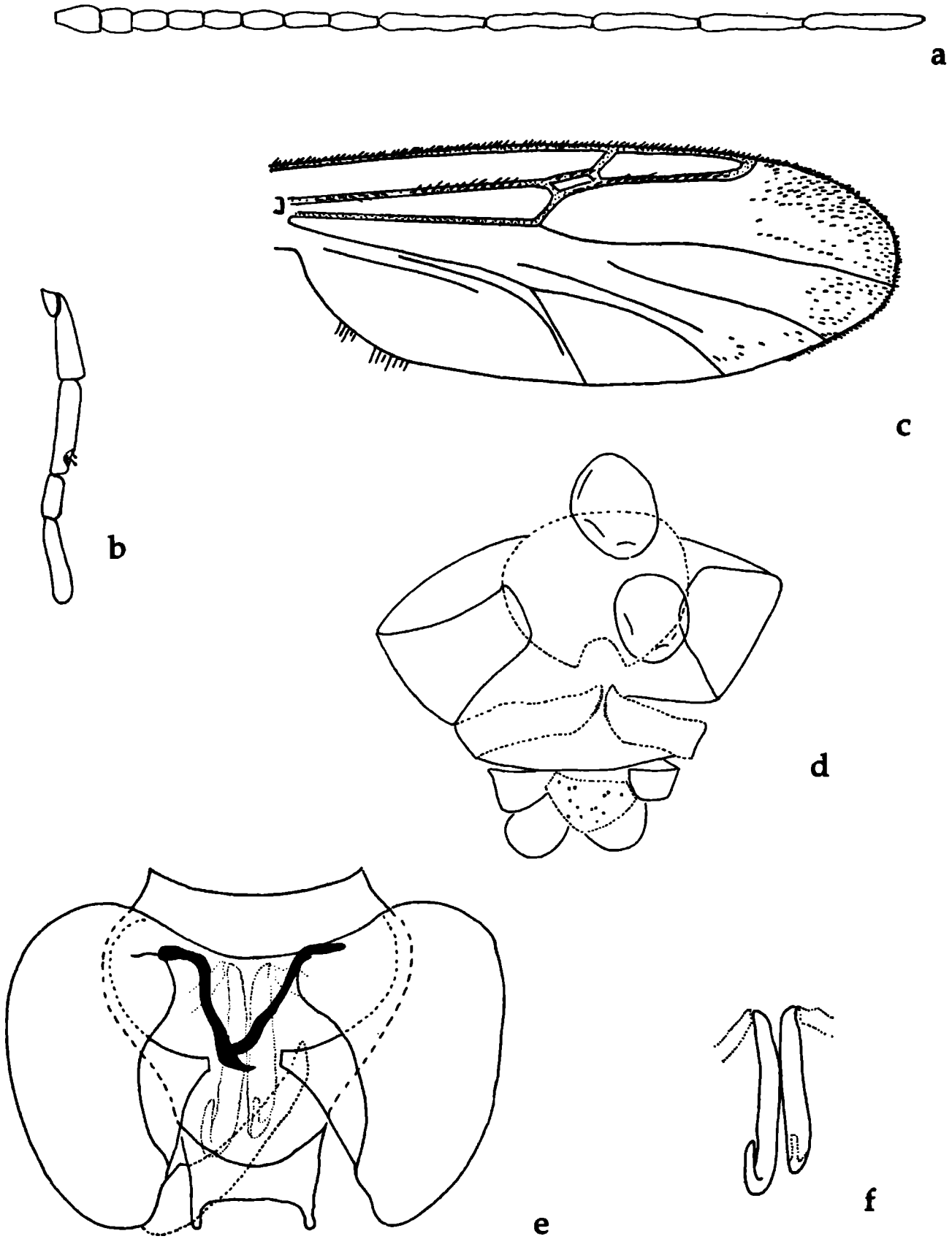


Lámina 17: *Stilobezzia (A.) ornaticrus* Ingram & Macfie, hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho (tomado del holotipo): e, genitalia; f, parámetros.

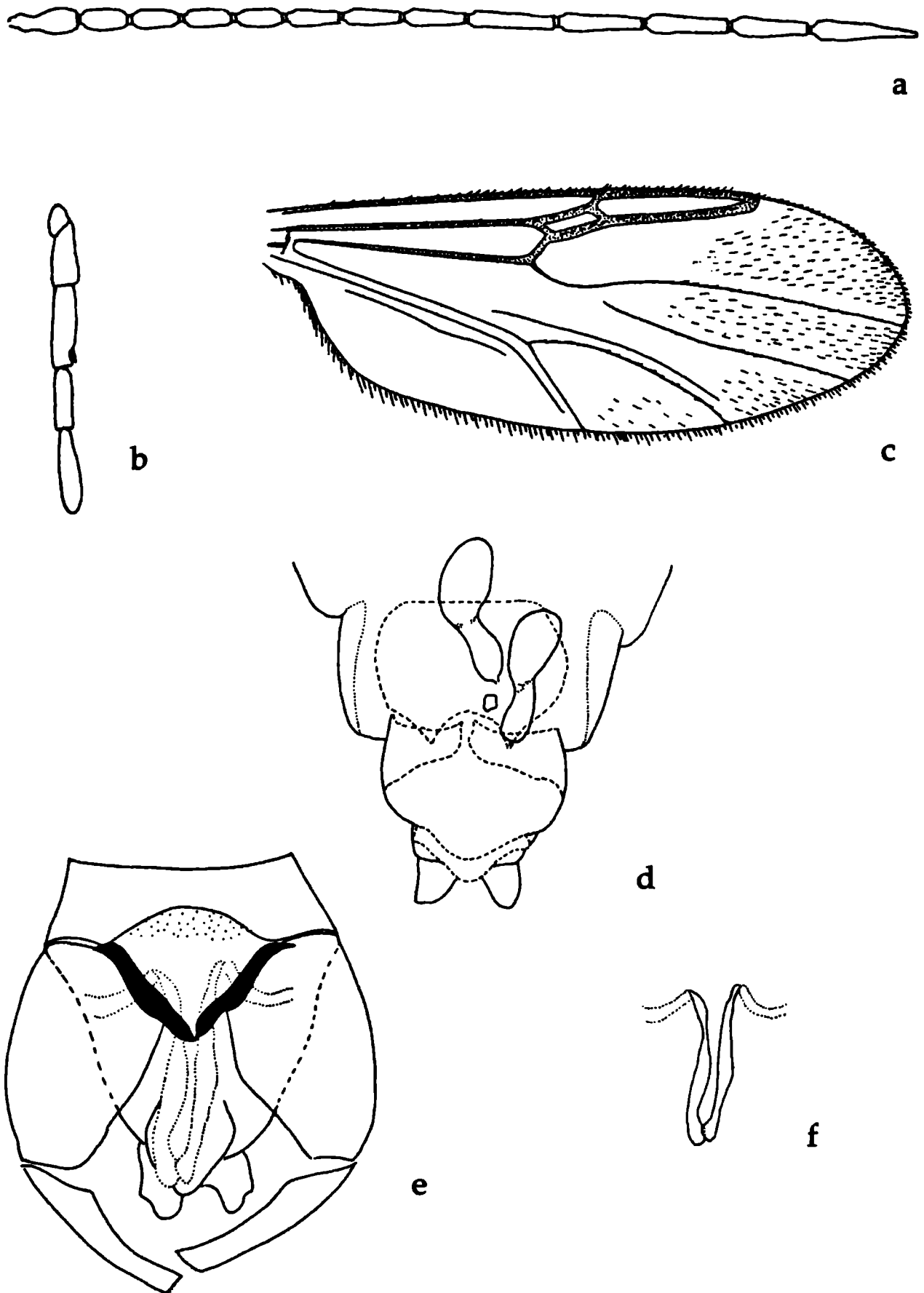


Lámina 18: *Stilobezzia (A.) patagonica* Ingram & Macfie, hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

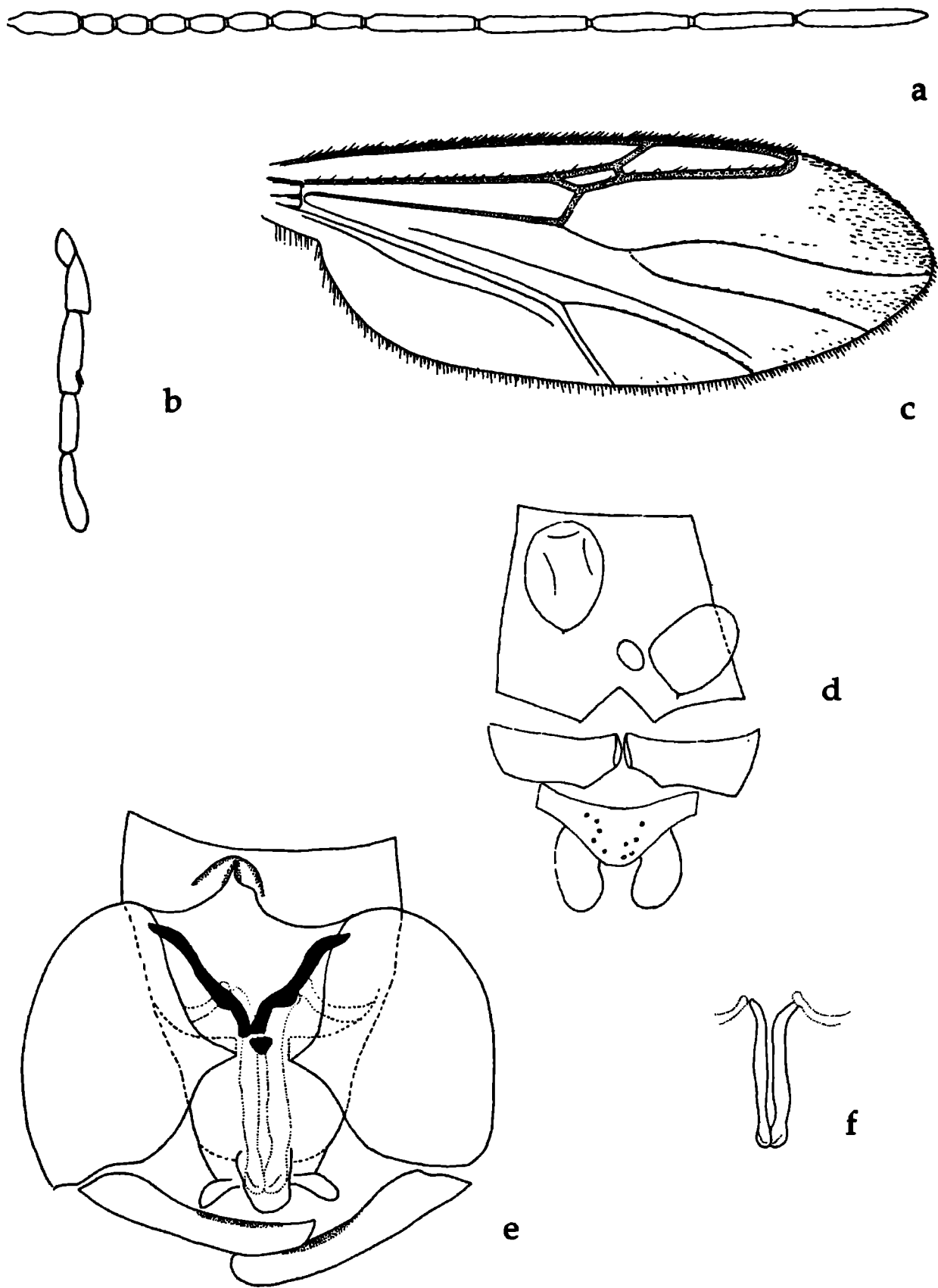


Lámina 19: *Stilobezzia (A.) rava* Ingram & Macfie; hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

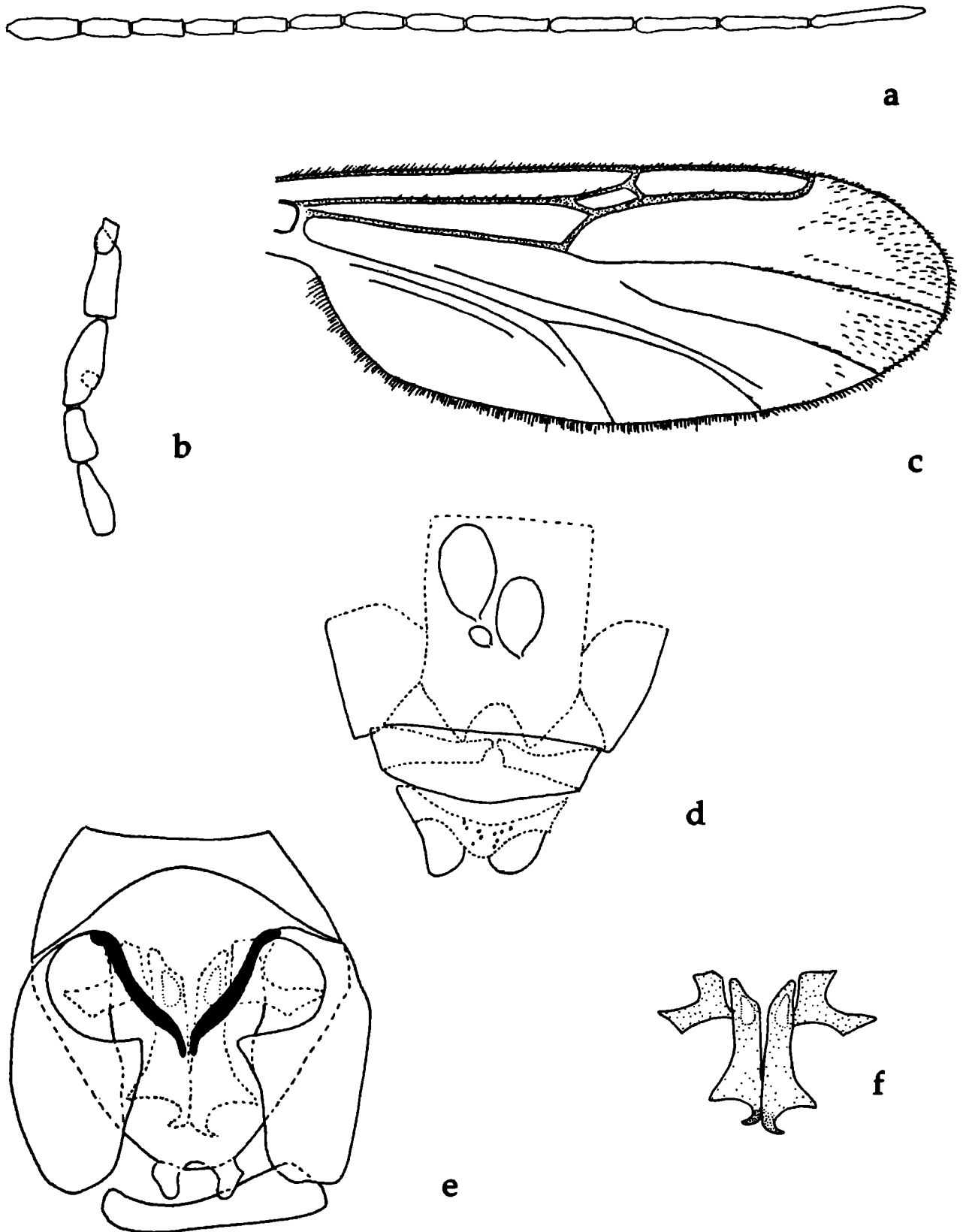


Lámina 20: *Stilobezzia* (A.) *stonei* Wirth, hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

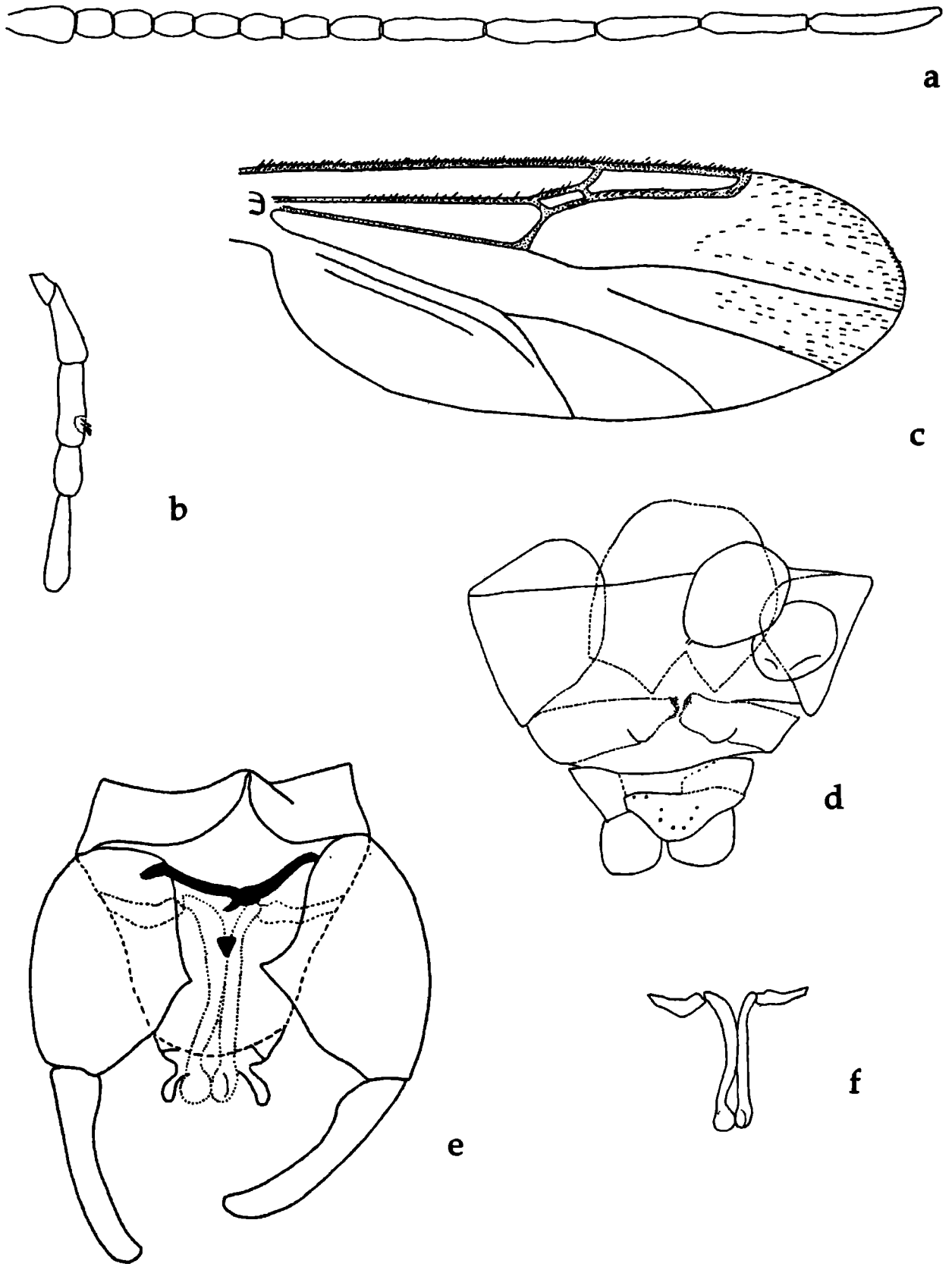


Lámina 21: *Stilobezzia (A.) succinea* Ingram & Macfie, hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

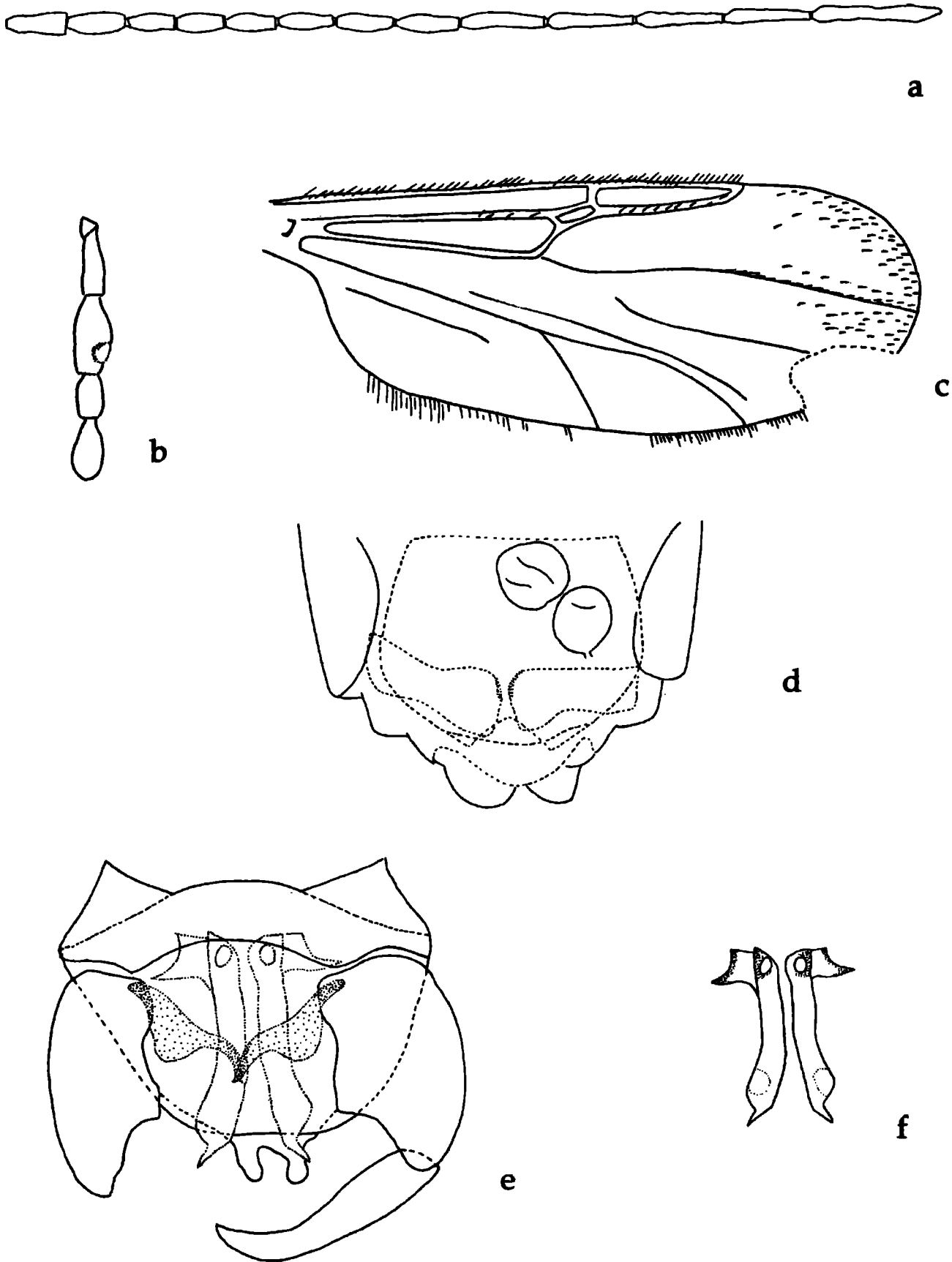


Lámina 22 : *Stilobezzia* (A.) *tibialis* Lane & Forattini, hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia f, parámetros.

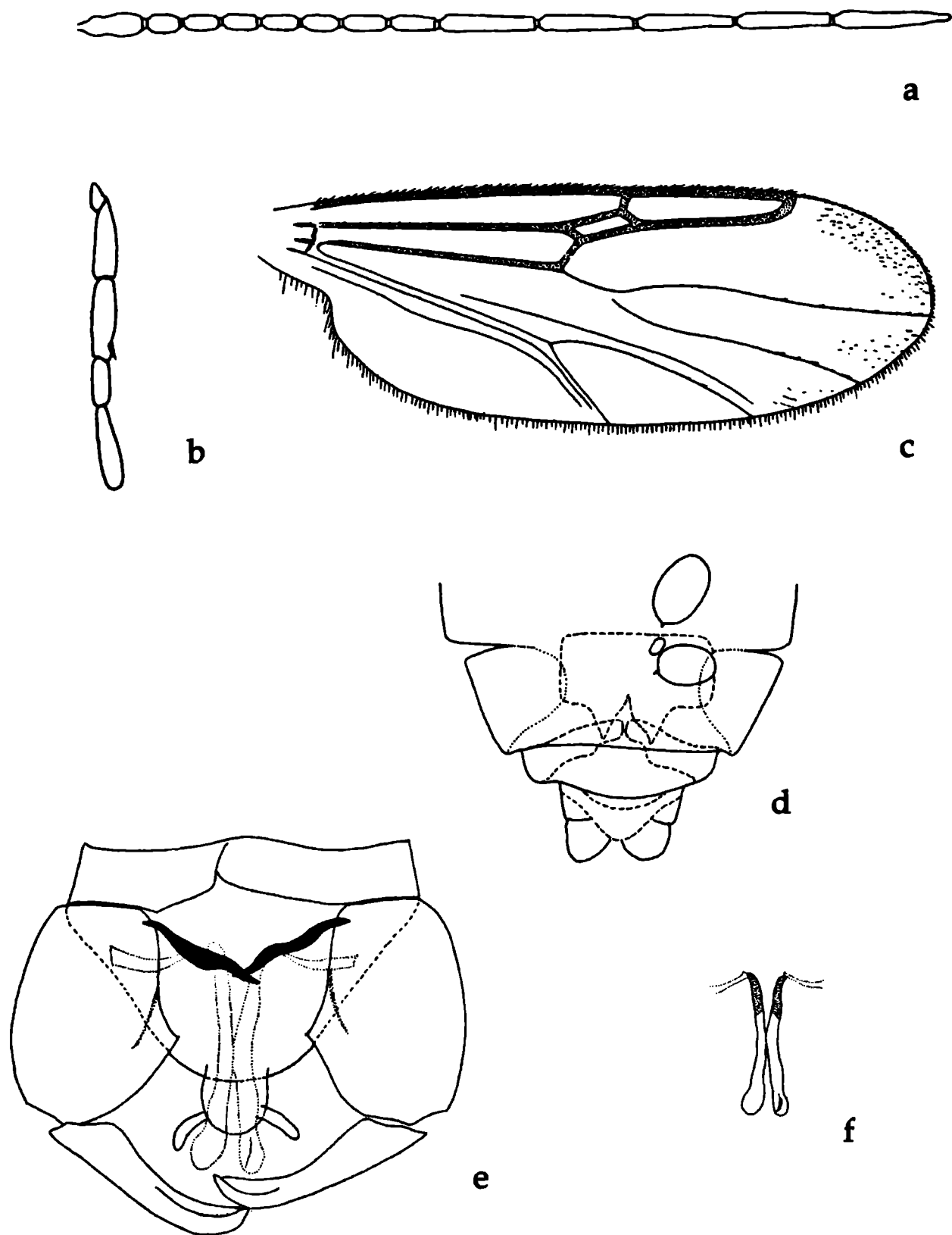


Lámina 23: *Stilobezzia (A.) varia* Ingram & Macfie, hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

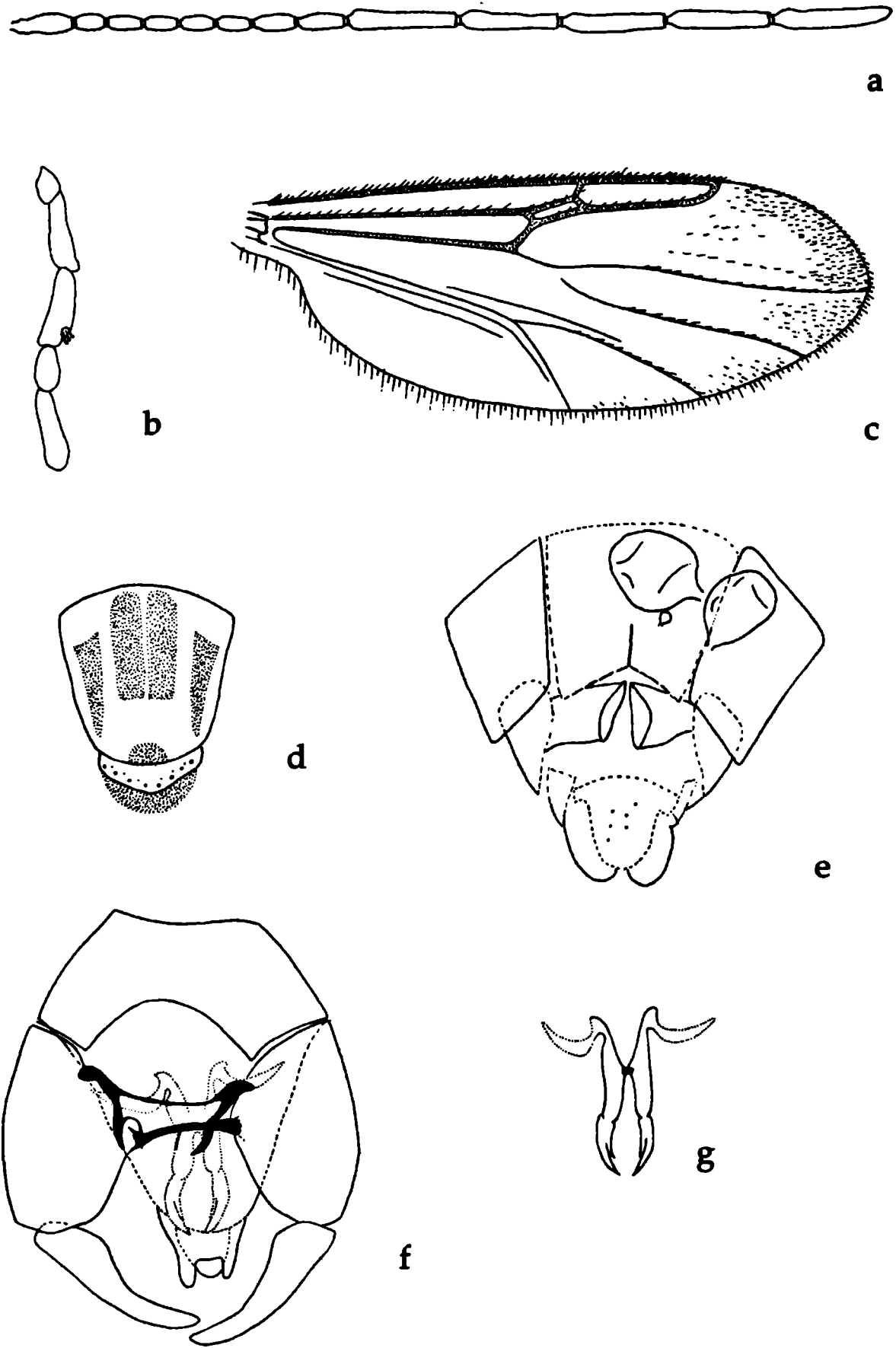


Lámina 24: *Stilobezzia (A.) 1*, sp. n., hembra: a, flagelo; b, palpo maxilar; c, ala; d, detalle de escudo y escutelo; e, genitalia; macho: f, genitalia; g, parámetros.

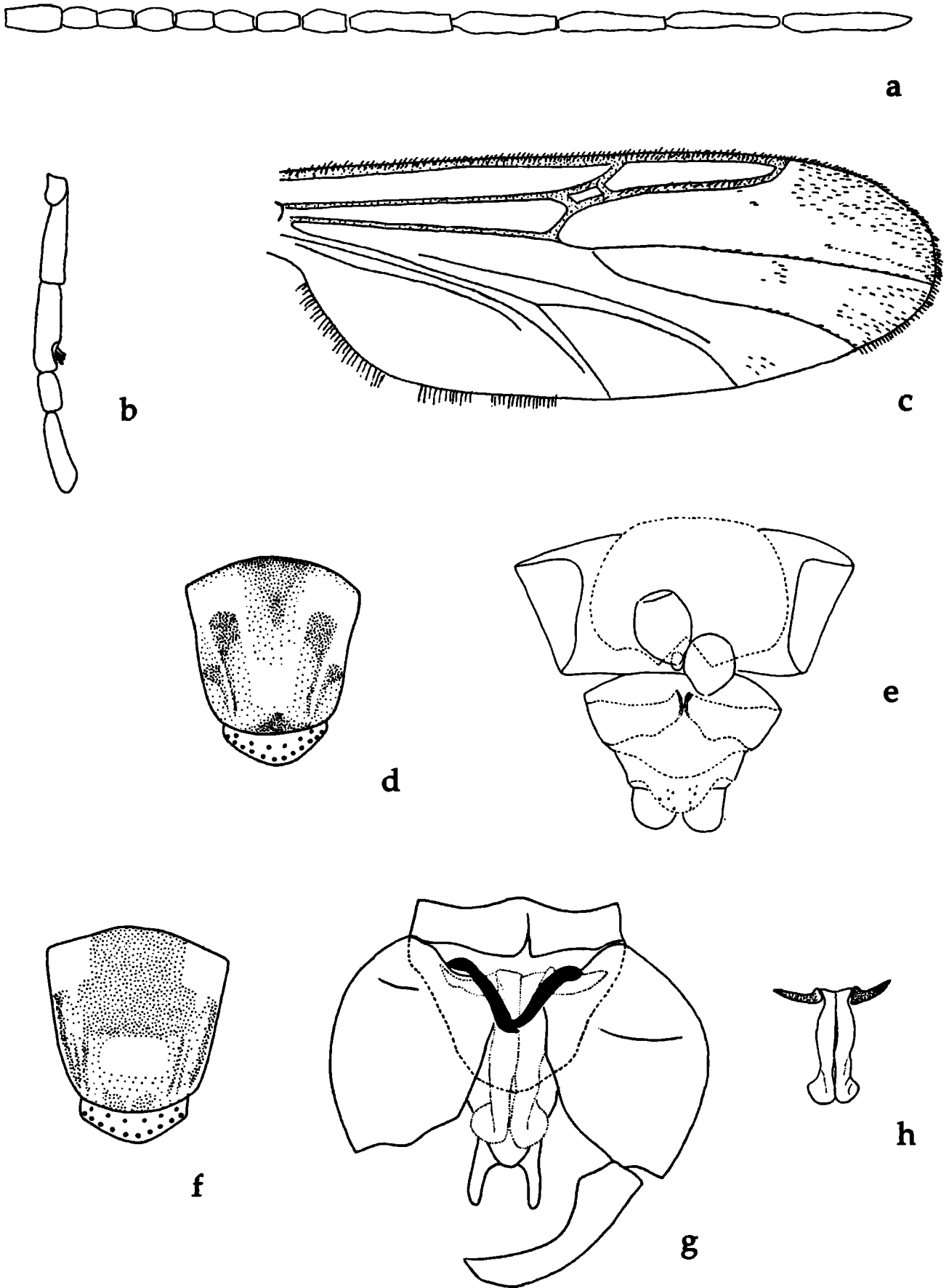


Lámina 25: *Stilobezzia* (A.) 2, sp. n., hembra: a, flagelo; b, palpo maxilar; c, ala; d, detalle del escudo y escutelo; e, genitalia; macho: f, detalle del escudo y escutelo; g, genitalia; h, parámetros.

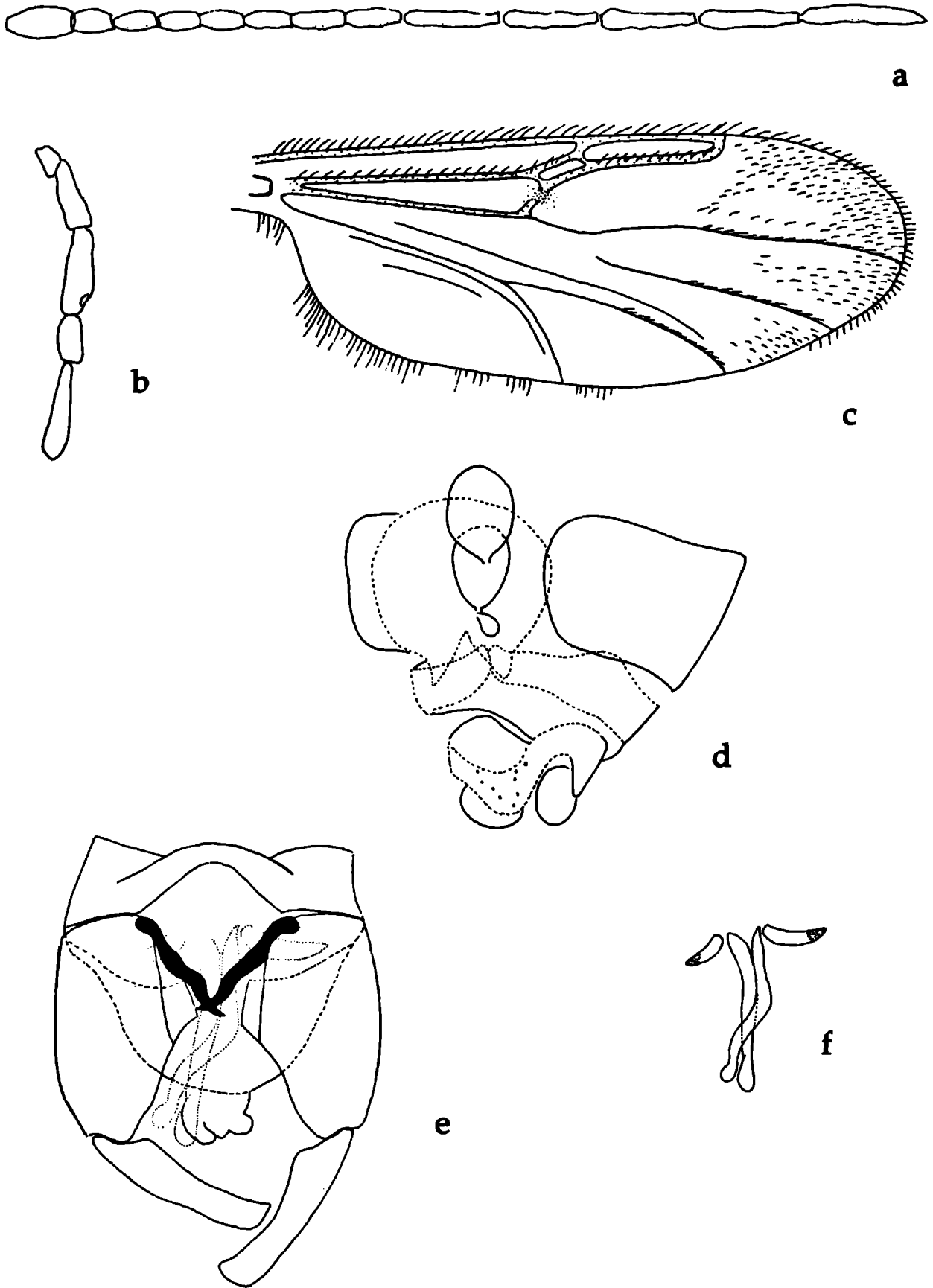


Lámina 26: *Stilobezzia* (A.) 3, *sp. n.*, hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

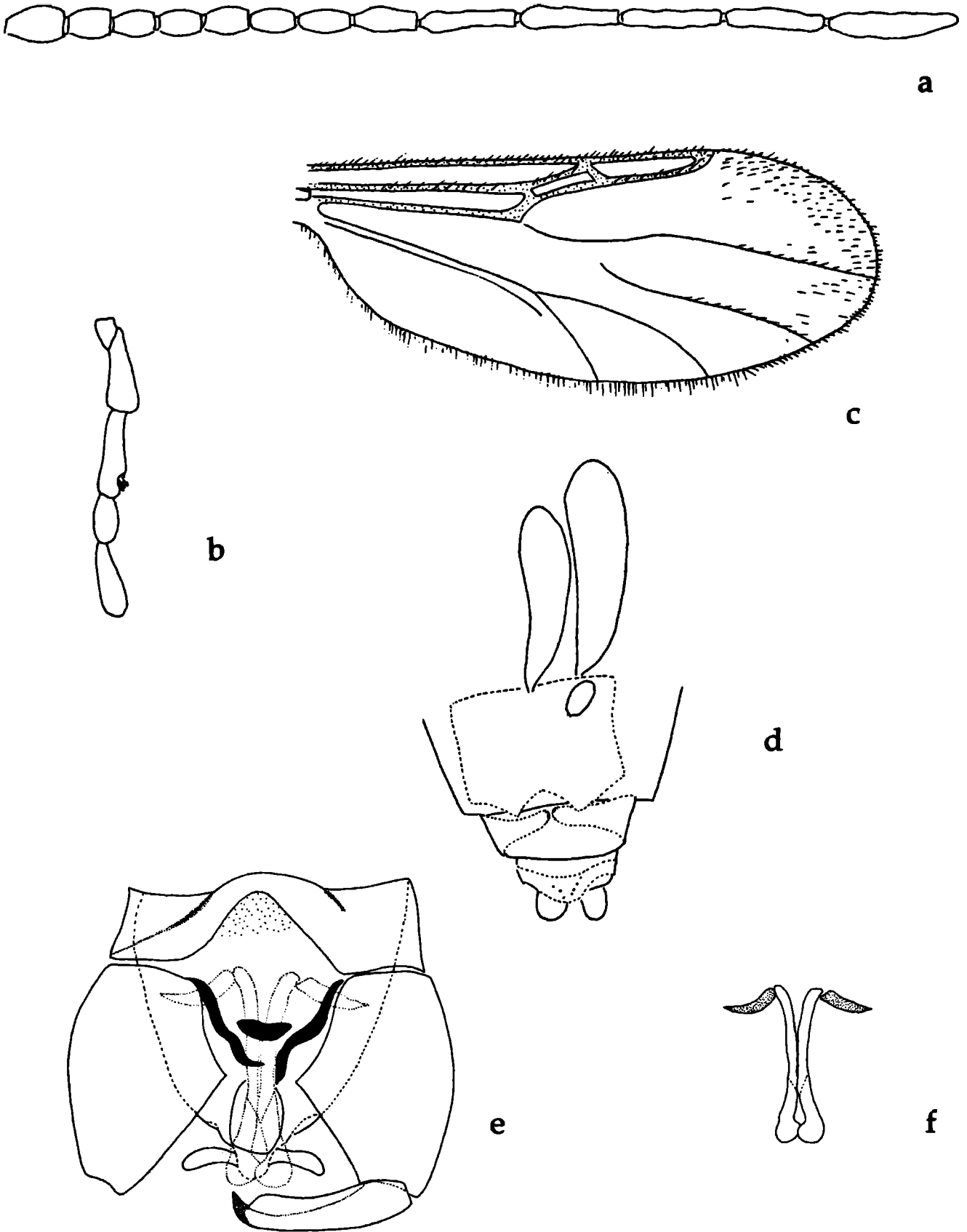
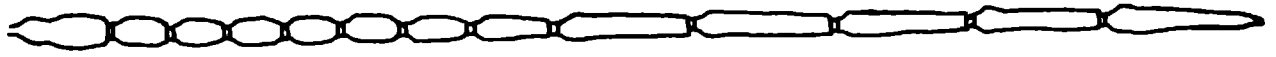


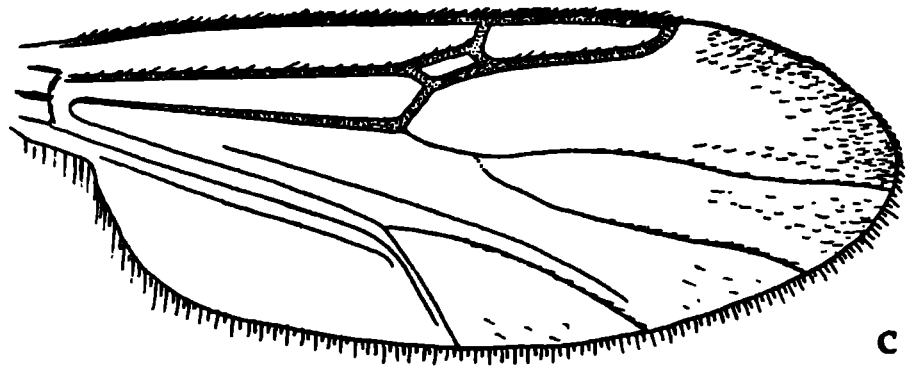
Lámina 27: *Stilobezzia* (A.) 4, sp. n., hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.



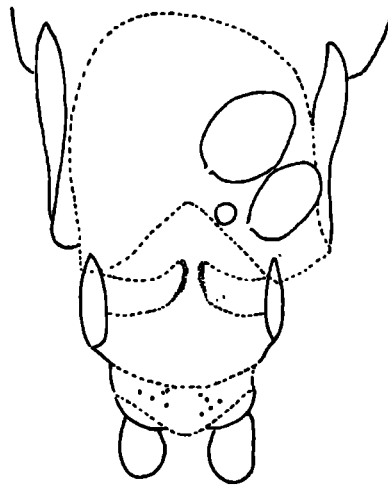
a



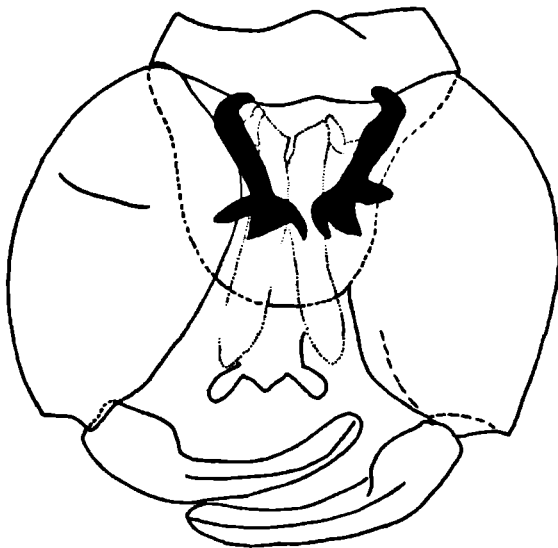
b



c



e



f



g

Lámina 28: *Stilobezzia* (A.) 5, sp. n., hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

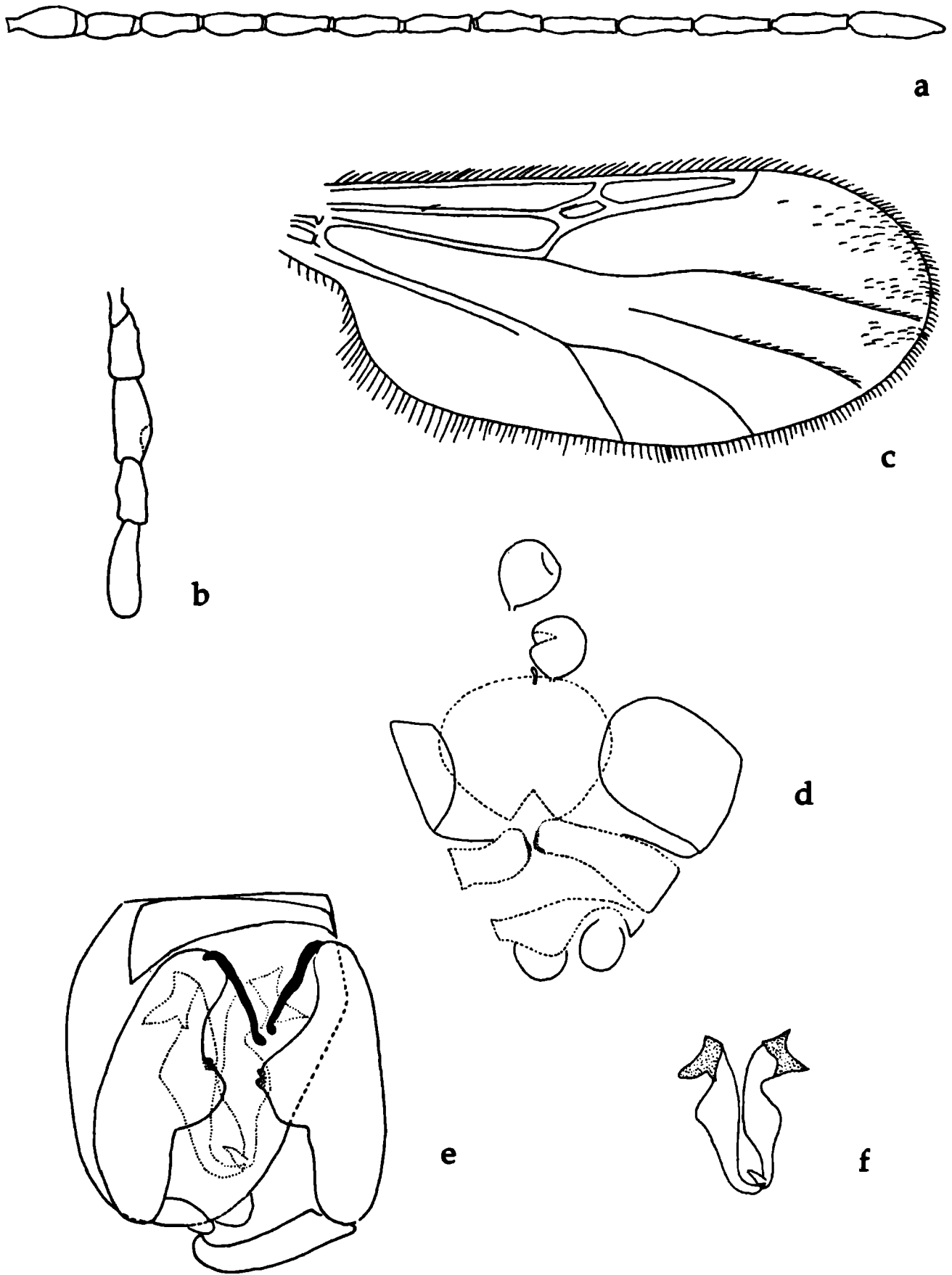


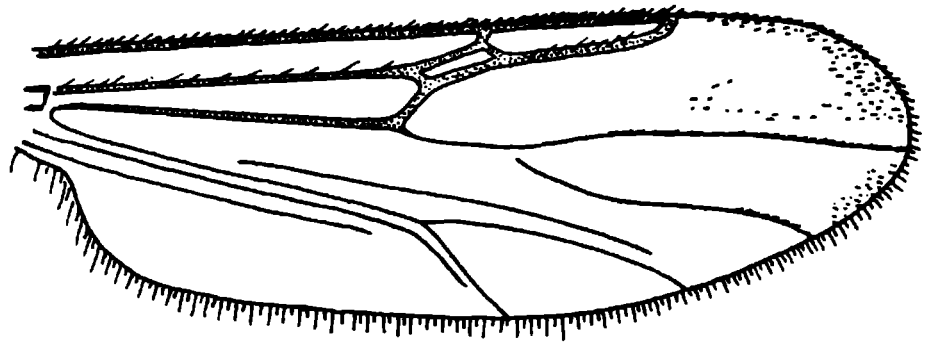
Lámina 29: *Stilobezzia* (A.) 6, sp. n., hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia f, parámetros.



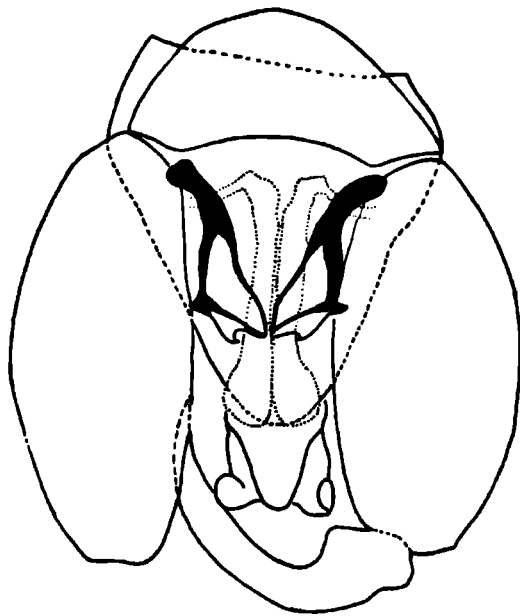
a



b



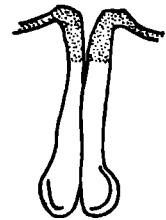
c



d

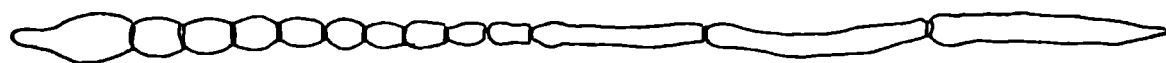


e



f

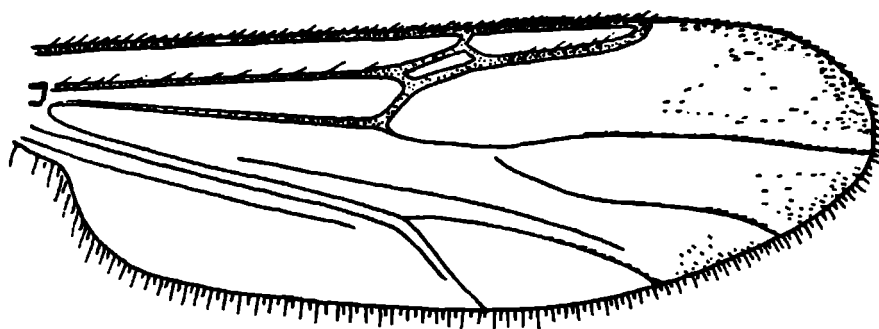
Lámina 30: *Stilobezzia* (A.) 7, sp. n., macho: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; e, edeago; f, parámetros.



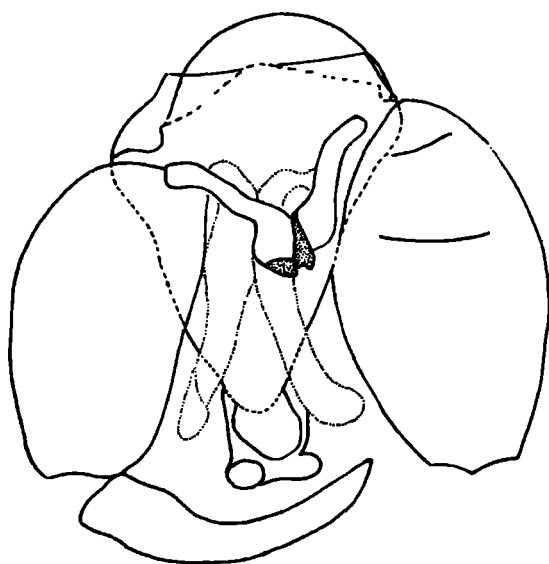
a



b



c



d



e

Lámina 31: *Stilobezzia* (A.) ♂, sp. n., macho: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; e, parámetros.

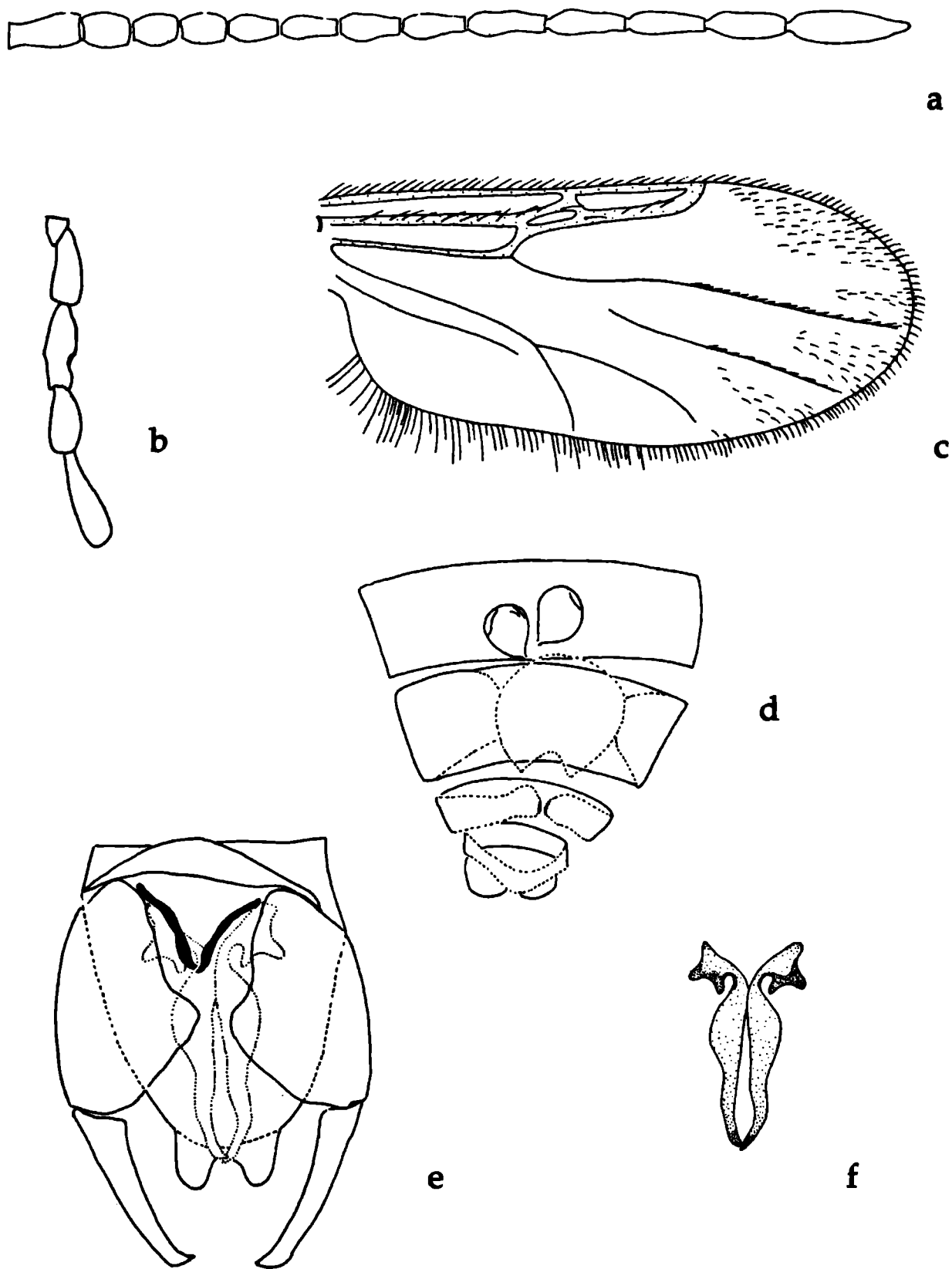


Lámina 32: *Stilobezzia* (A.) 9, sp. n., hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

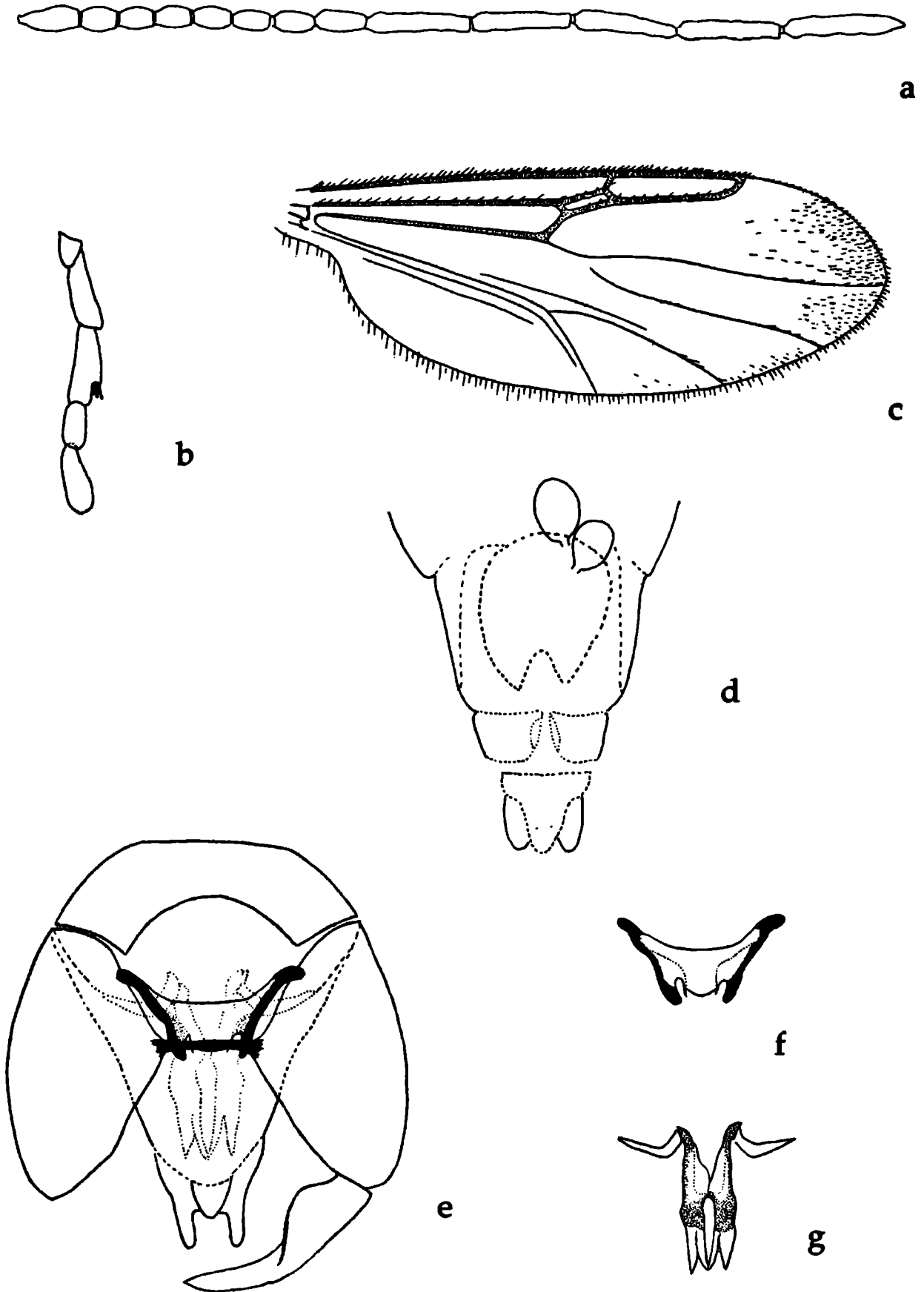


Lámina 33: *Stilobezzia* (A.) 10, sp. n., hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, edeago; g, parámetros.

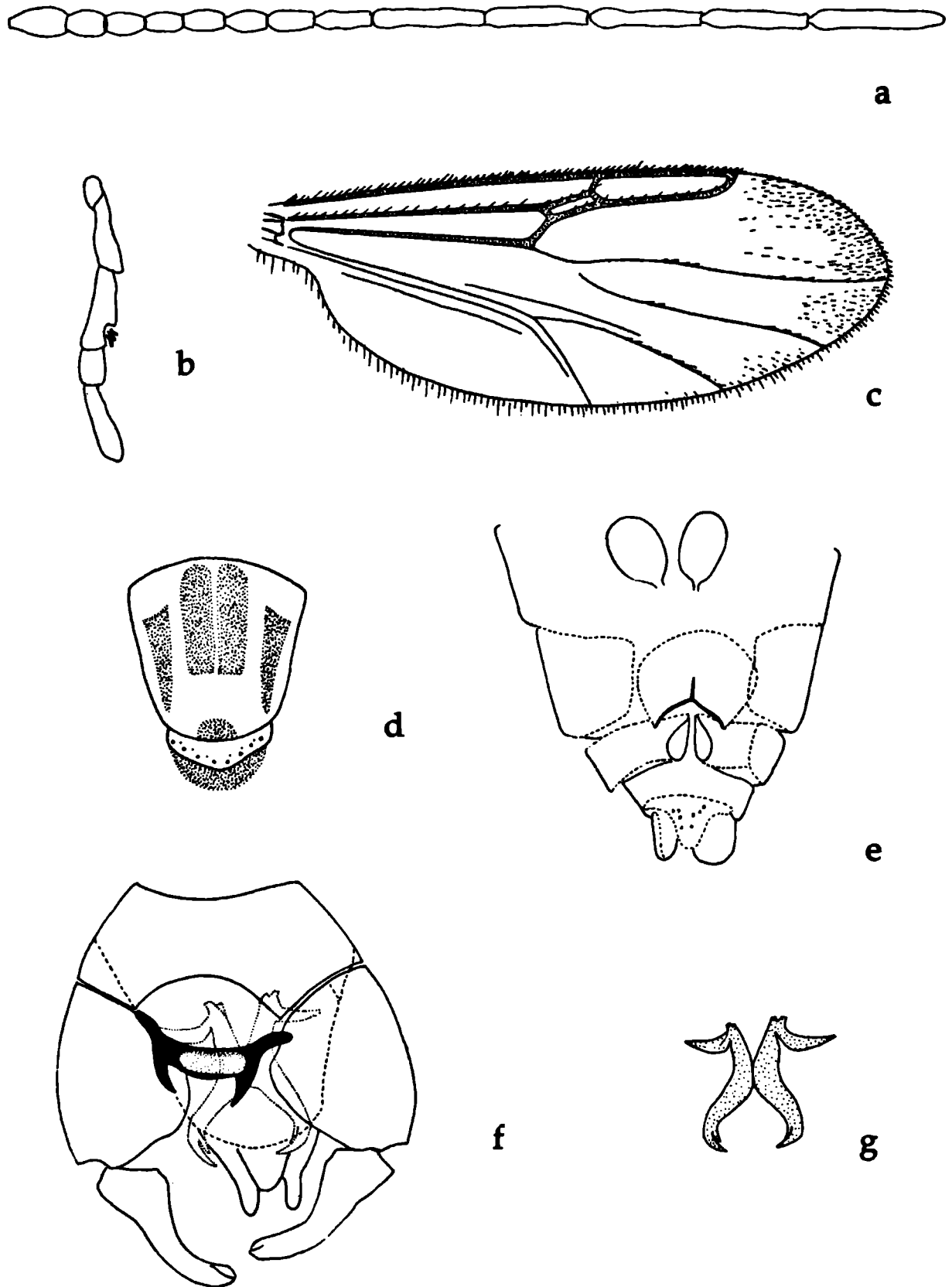


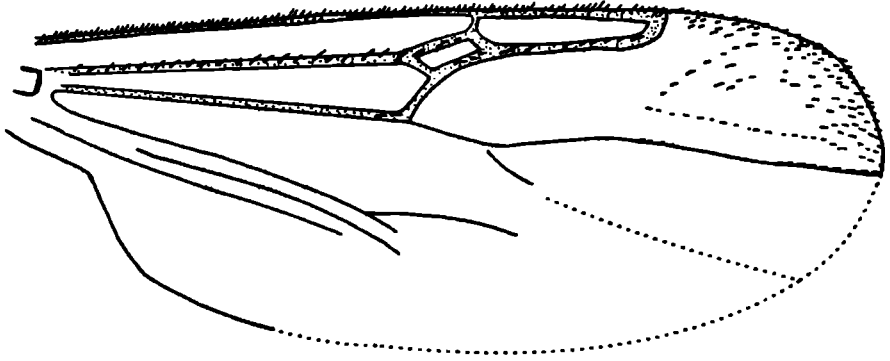
Lámina 34: *Stilobezzia* (A.) 11, sp. n., hembra: a, flagelo; b, palpo maxilar; c, ala; d, detalle del escudo y escutelo; e, genitalia; macho: f, genitalia; g, parámetros.



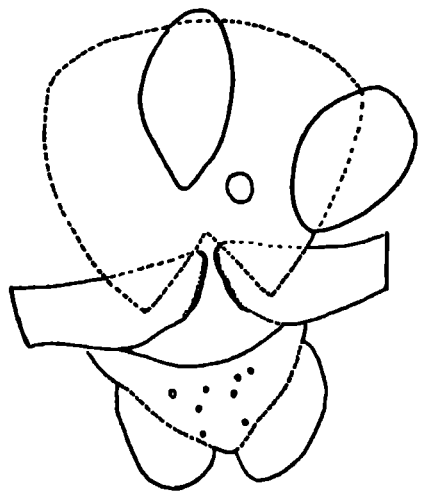
a



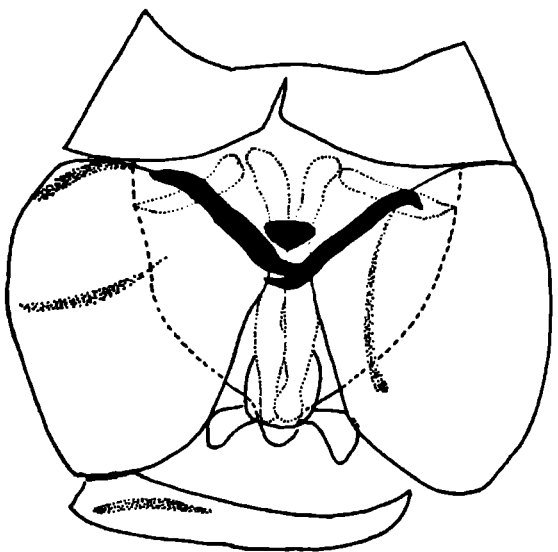
b



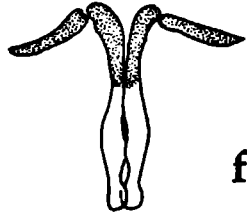
c



d



e



f

Lámina 35: *Stilobezzia* (A.) 12, sp. n., hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

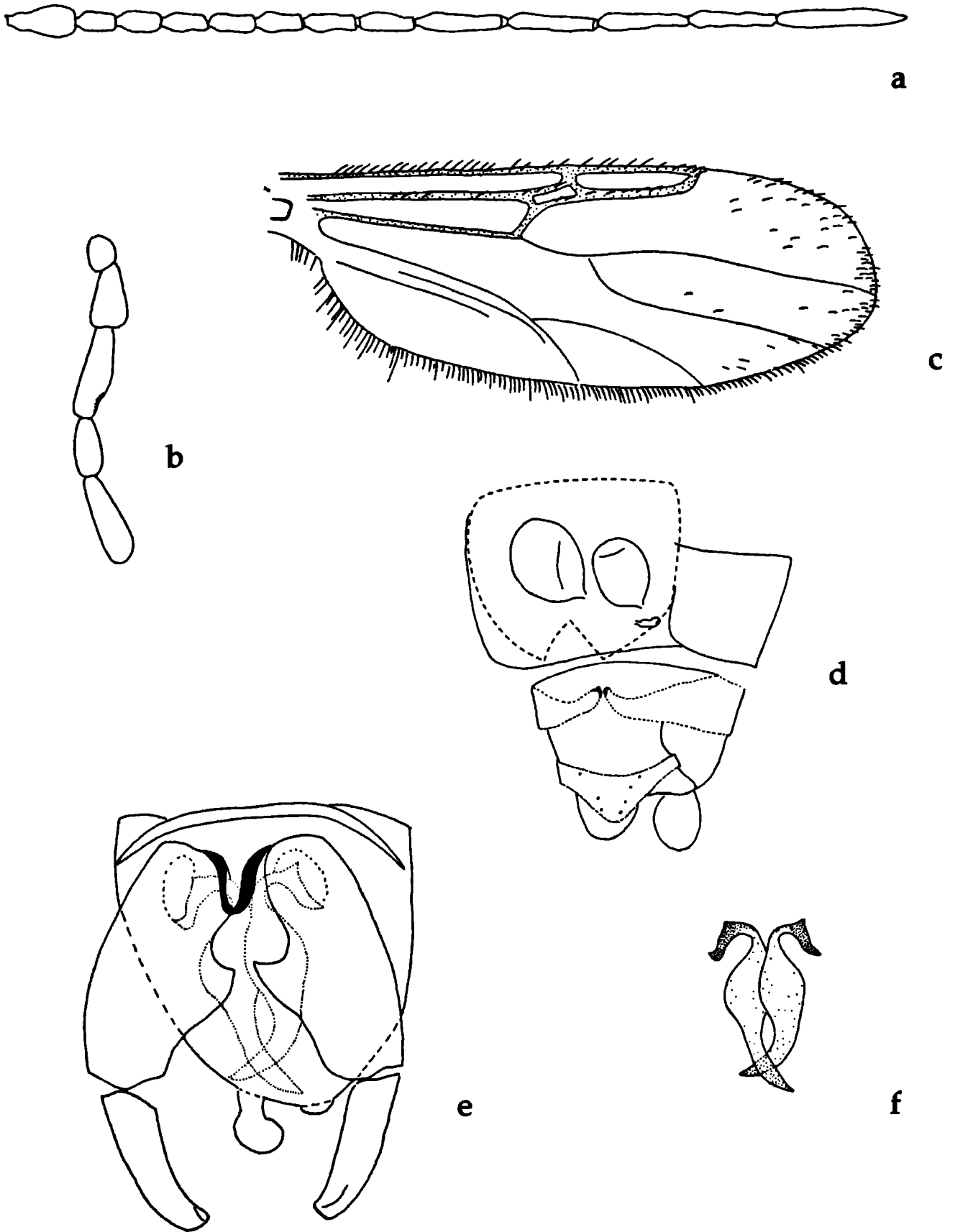


Lámina 36: *Stilobezzia (A.) 13*, sp. n., hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

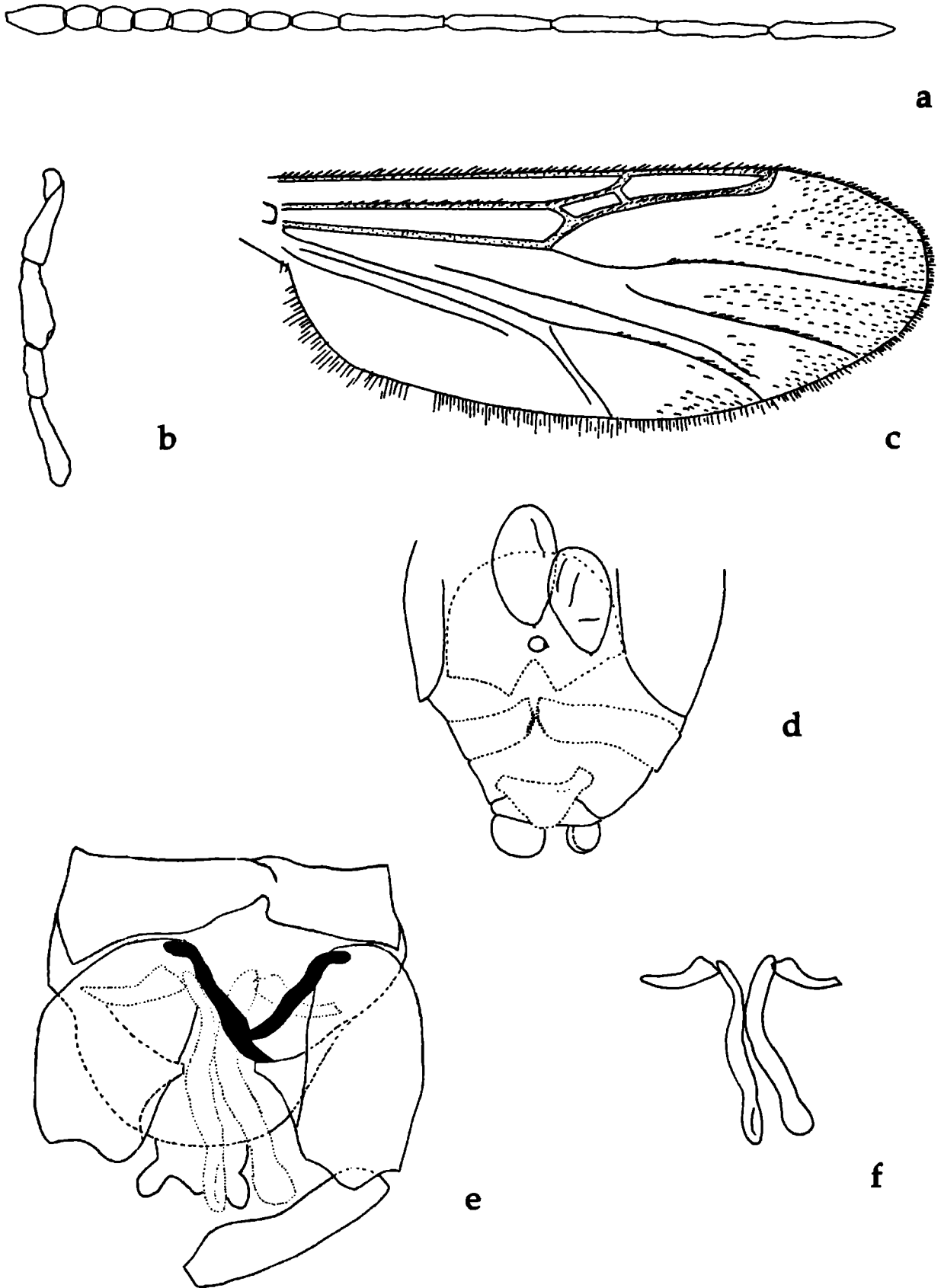


Lámina 37: *Stilobezzia* (A.) 14, sp. n., hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, parámetros.

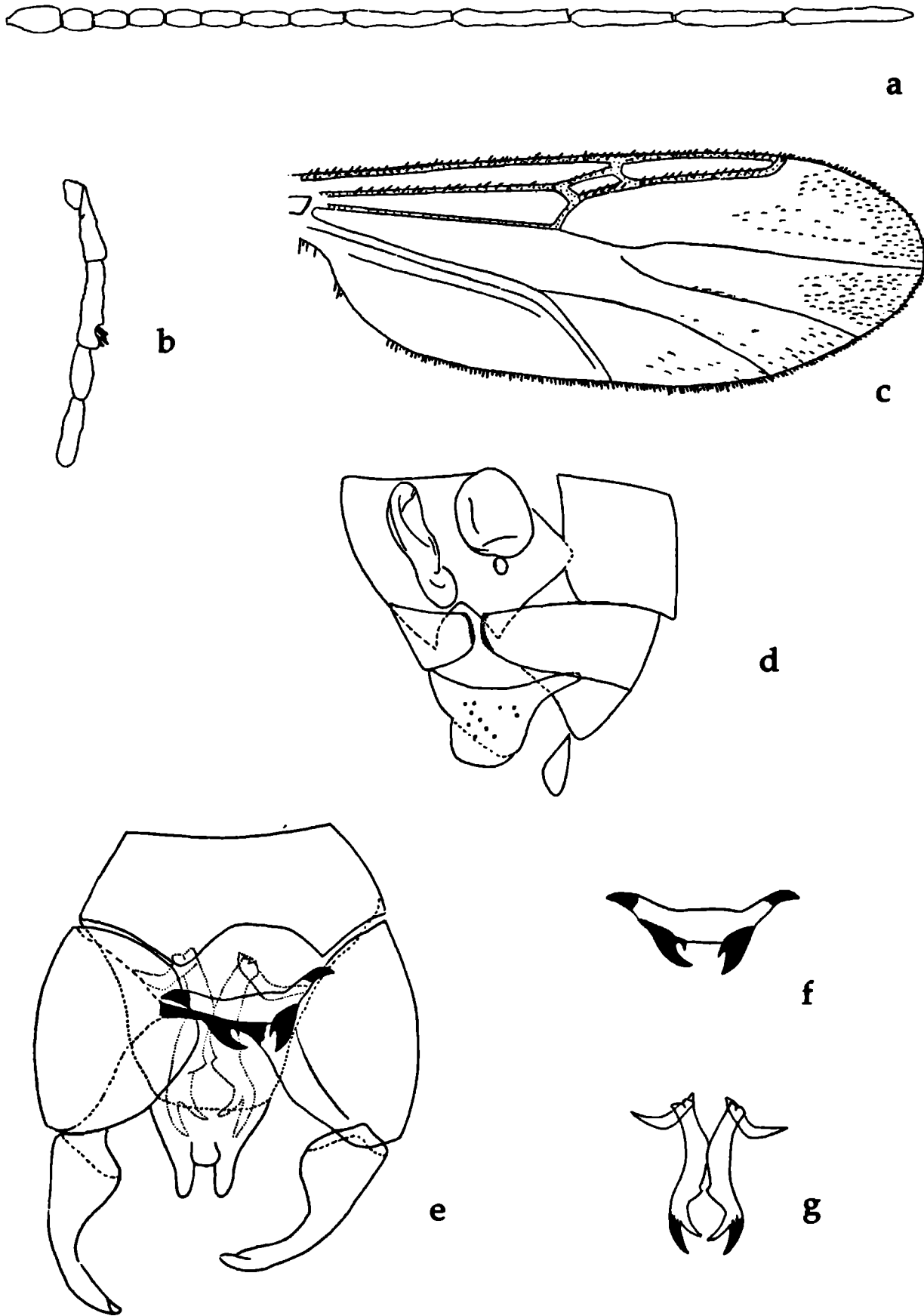


Lámina 38: *Stilobezzia* (A.) 15, sp. n., hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, edeago; g, parámetros.

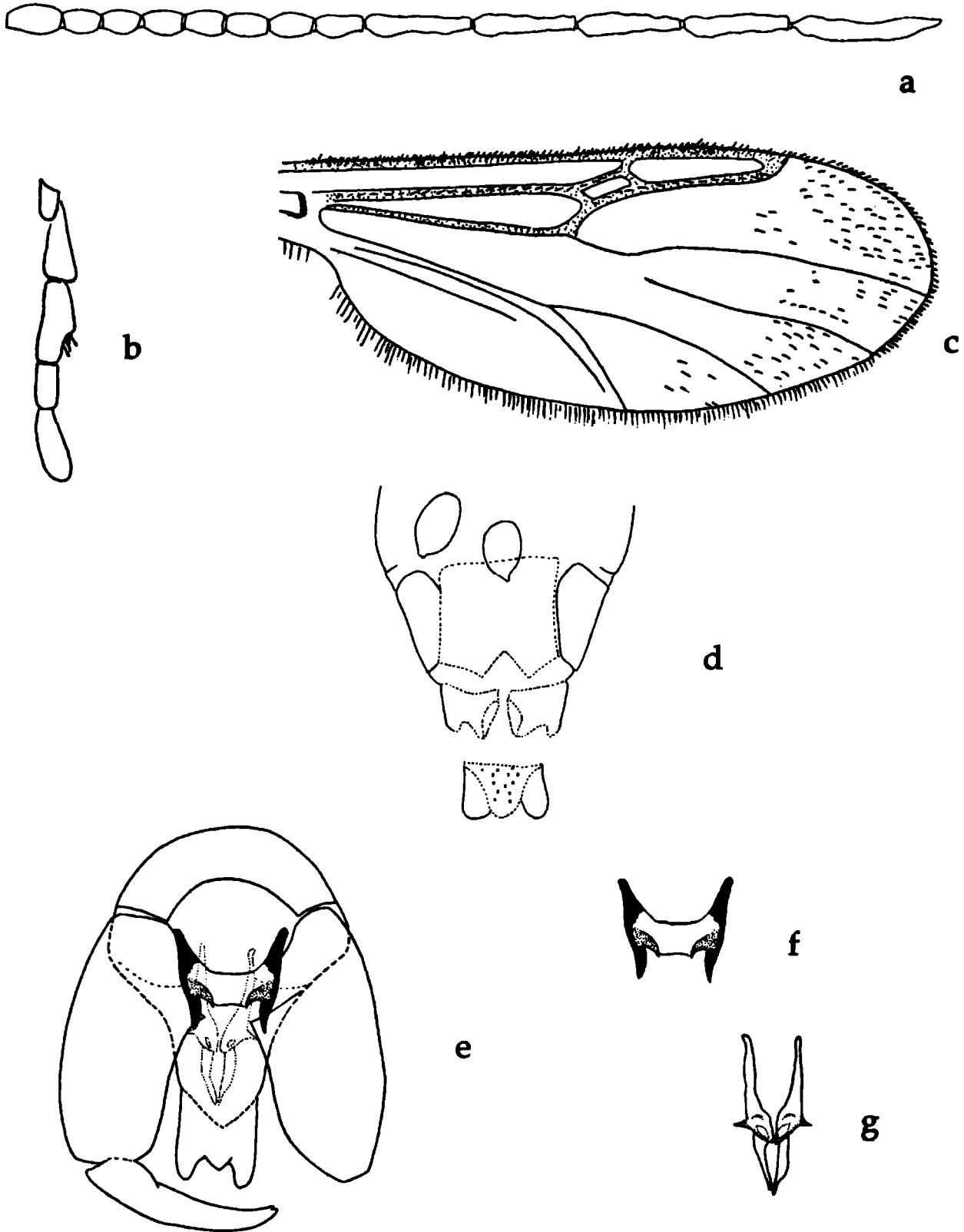
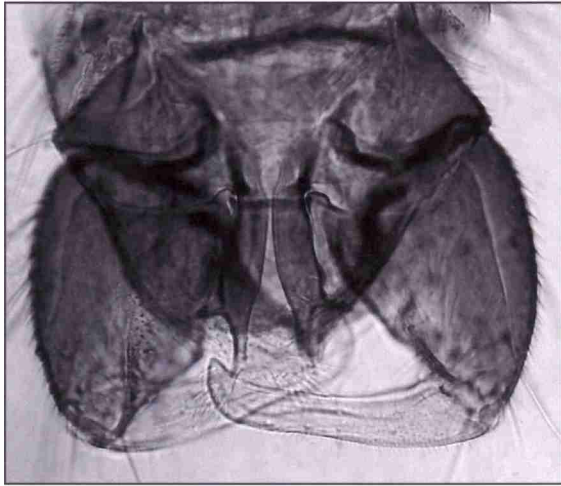
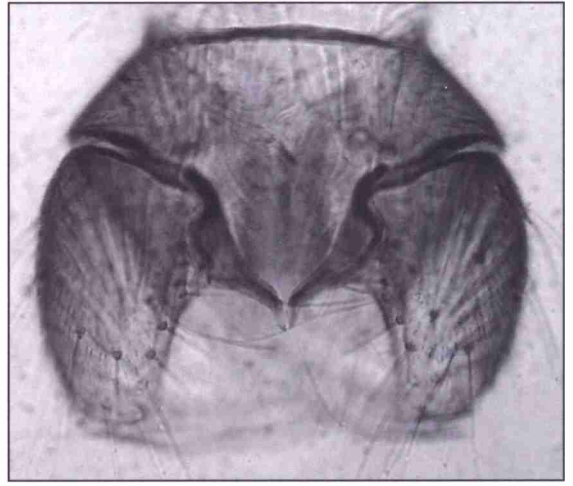


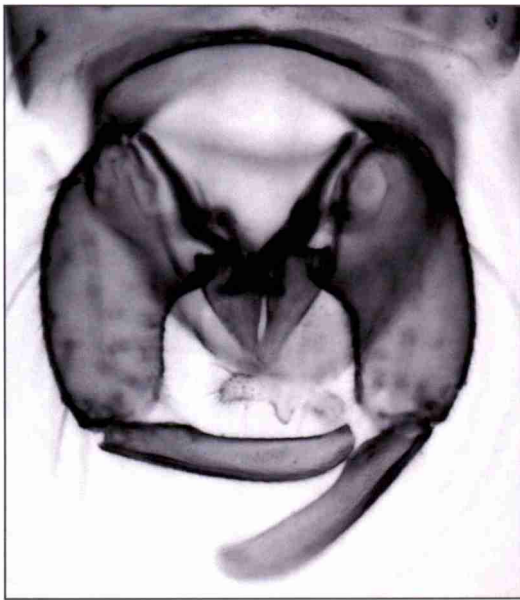
Lámina 39: *Stilobezzia* (A.) 16, sp. n., hembra: a, flagelo; b, palpo maxilar; c, ala; d, genitalia; macho: e, genitalia; f, edeago; g, parámetros.



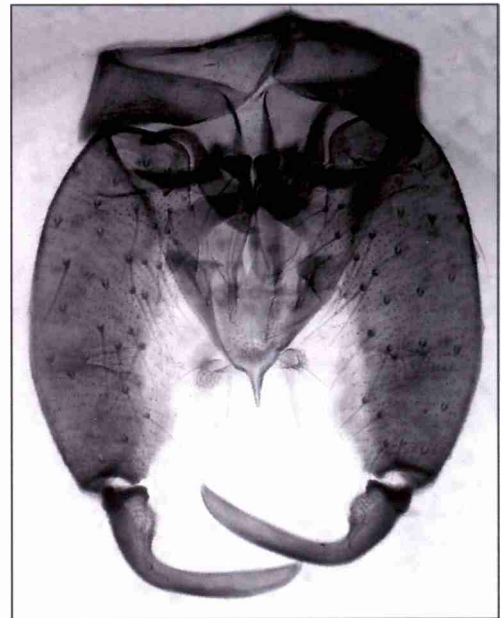
a



b

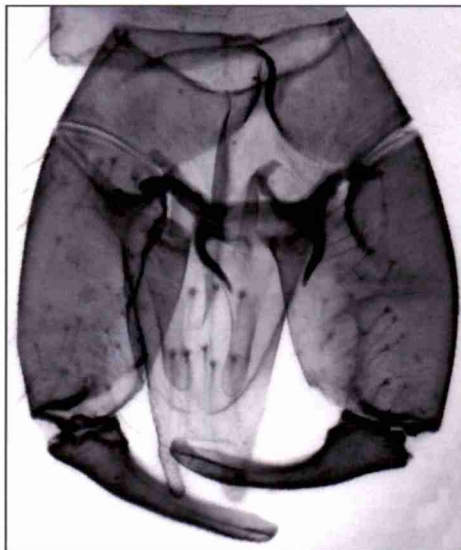


c

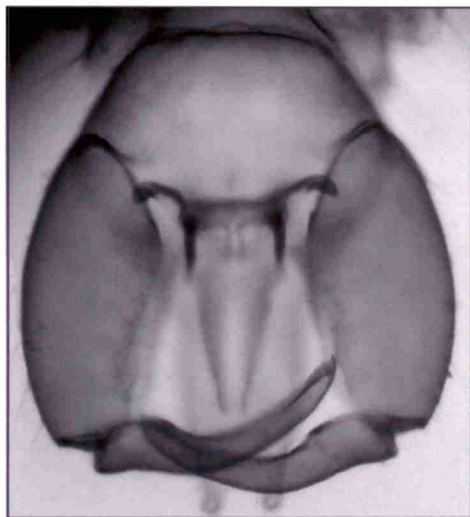


d

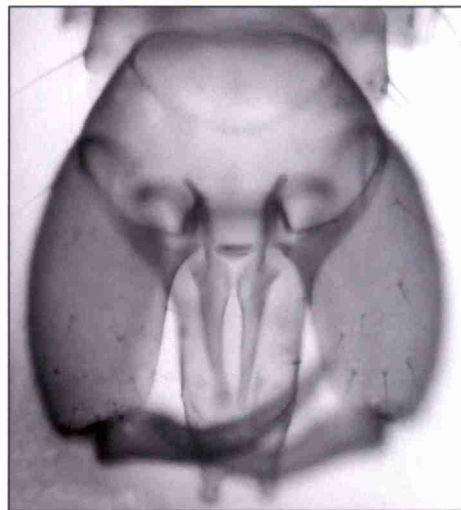
Lámina 40: genitalia masculina: *Stilobezzia* (A.) *atrachopogon* Lane & Forattini: a, vista dorsal; b, vista ventral; c, *S. (A.) bicinctipes* Ingram & Macfie; d, *S. (A.) curvistyla* Cazorla & Spinelli.



a

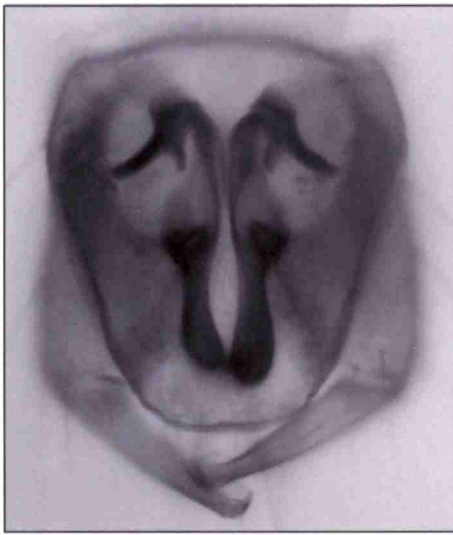


b

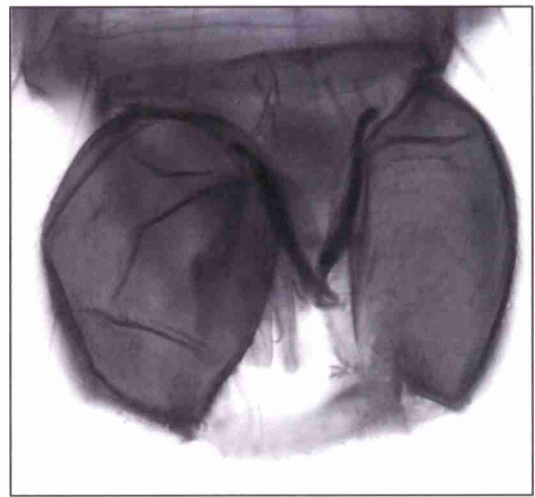


c

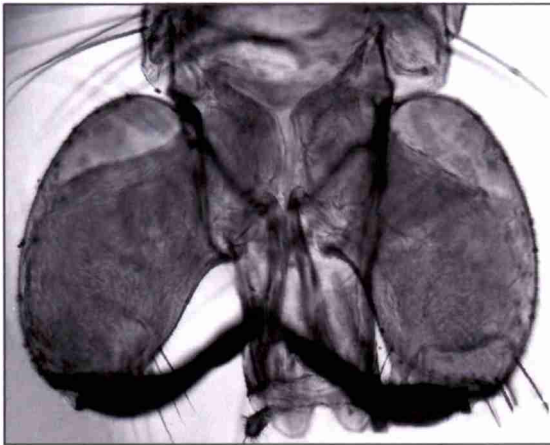
Lámina 41: genitalia masculina: a, *Stilobezzia (A.) edwardsi* Ingram & Macfie; *S. (A.) furva* Ingram & Macfie: b, vista ventral; c, vista dorsal.



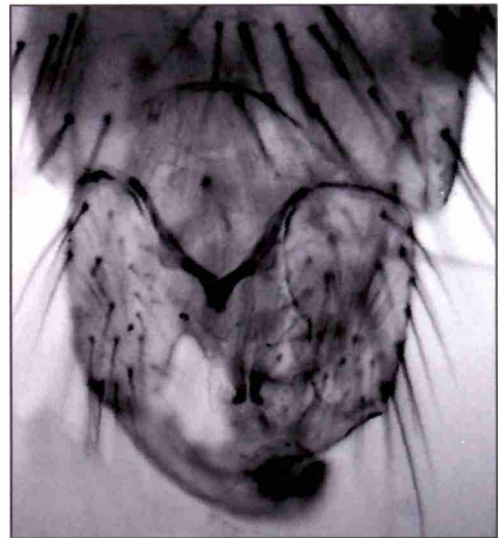
a



b

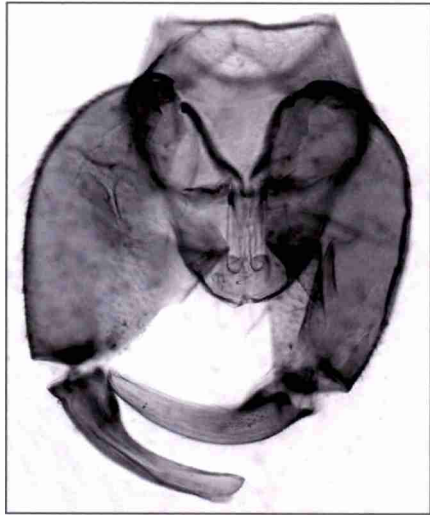


c

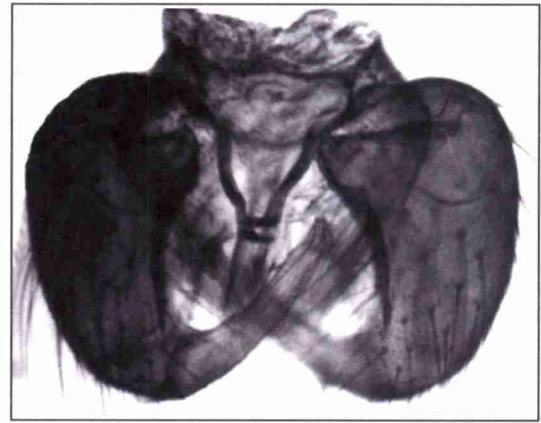


d

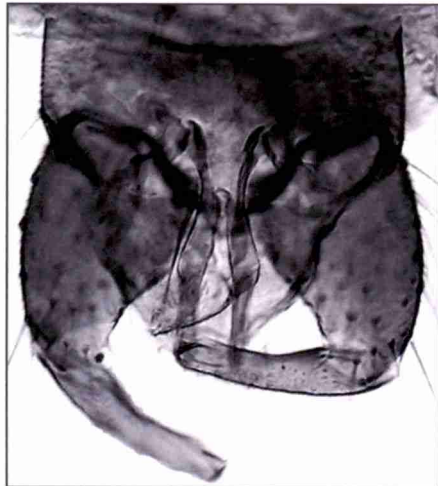
Lámina 42: genitalia masculina: a, *Stilobezzia* (A.) *fuscula* Wirth; b, *S. (A.) guianae* (Macfie); c, *S. (A.) hirsuta* Ingram & Macfie (holotipo); d, *S. (A.) lutea* (Malloch).



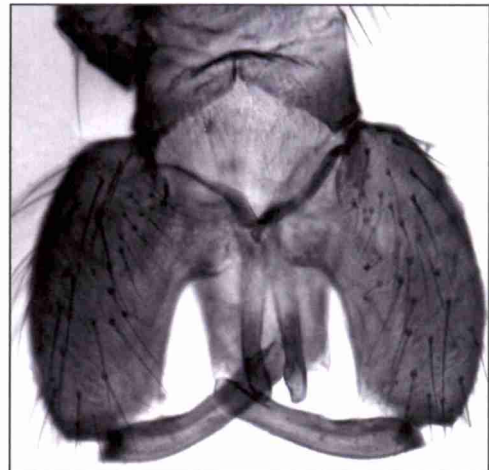
a



b

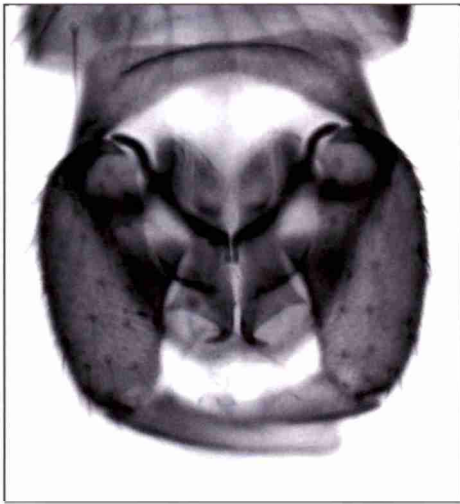


c

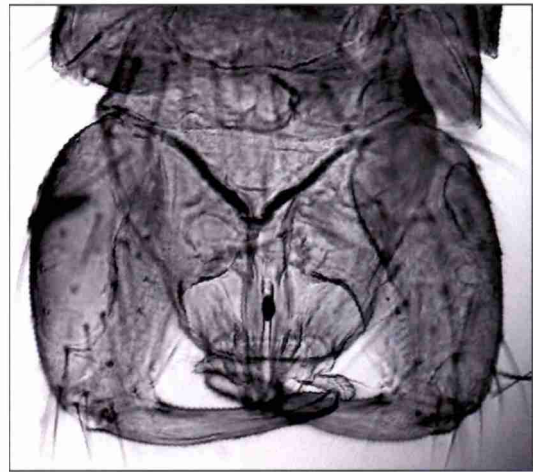


d

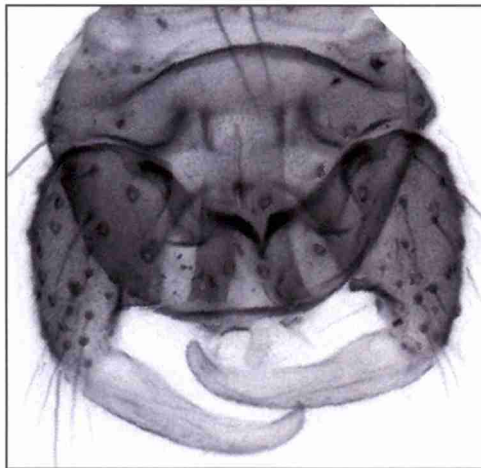
Lámina 43: genitalia masculina: a, *Stilobezzia (A.) nigerrima* Ingram & Macfie; b, *S. (A.) ornaticrus* Ingram & Macfie (holotipo); c, *S. (A.) patagonica* (holotipo) Ingram & Macfie; d, *S. (A.) rava* Ingram & Macfie (holotipo).



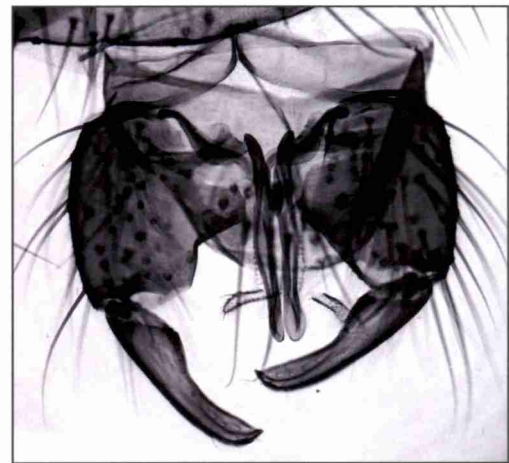
a



b

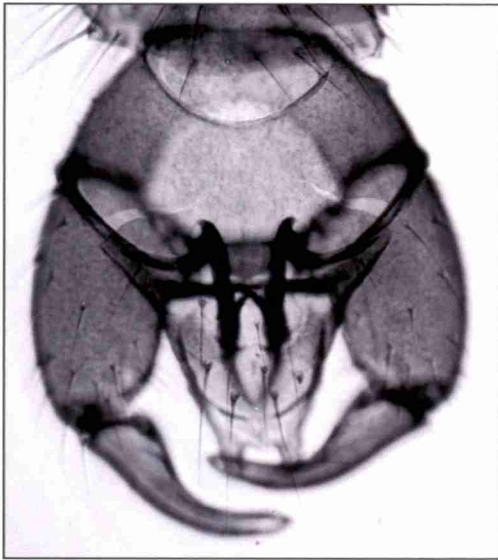


c

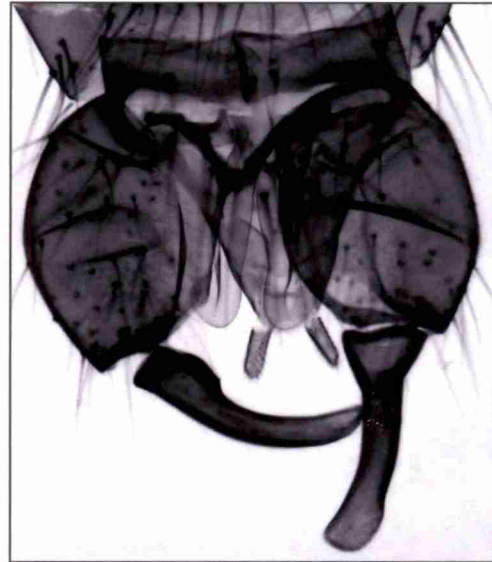


d

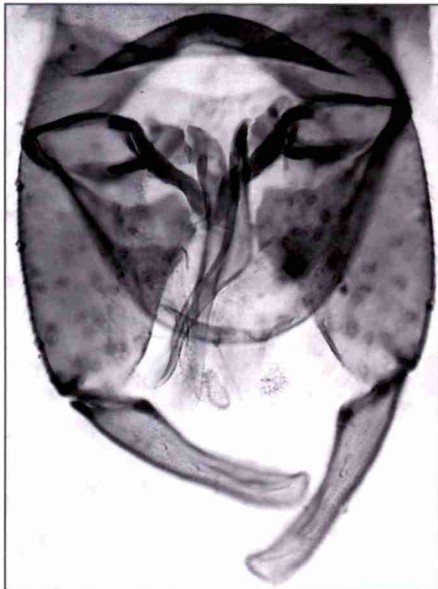
Lámina 44: genitalia masculina: a, *Stilobezzia (A.) stonei* Wirth; b, *S. (A.) succinea* Ingram & Macfie (holotipo); c, *S. (A.) tibialis* Lane & Forattini; d, *S. (A.) varia* Ingram & Macfie.



a



b

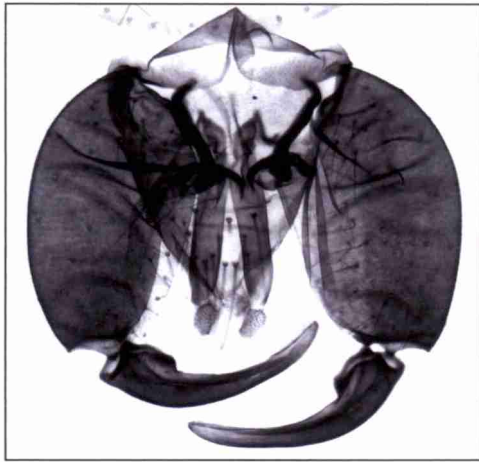


c



d

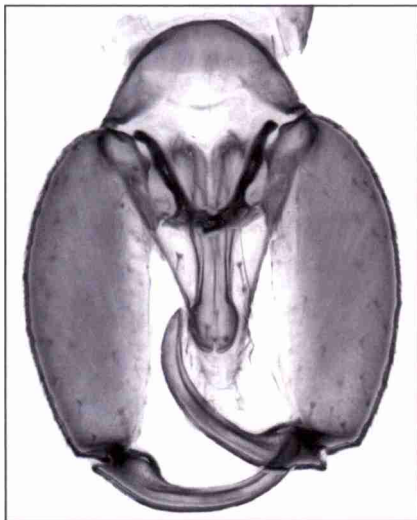
Lámina 45 : genitalia masculina: a, *Stilobezzia* (A.) 1, sp. n.; b, *S.* (A.) 2, sp. n.; c, *S.* (A.) 3, sp. n.; *S.* (A.) 4, sp. n.



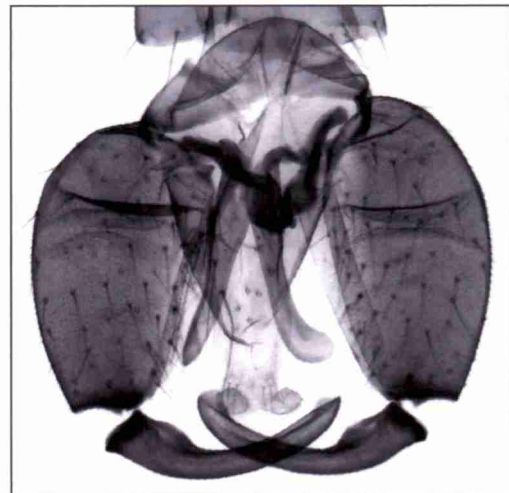
a



b

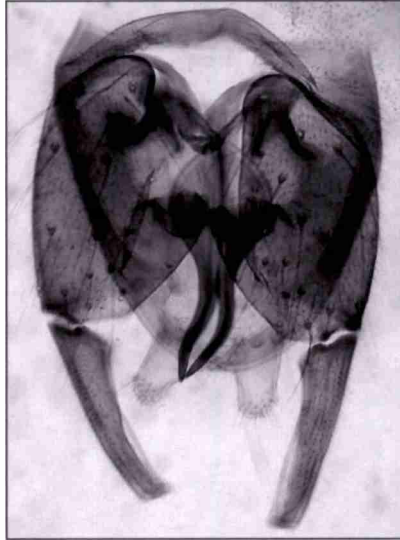


c



d

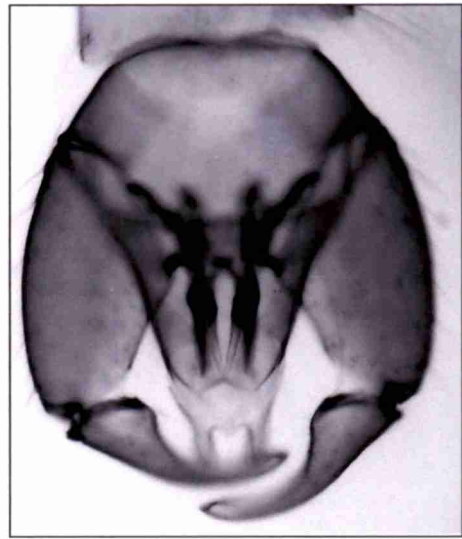
Lámina 46: genitalia masculina: a, *Stilobezzia* (A.) 5, sp. n.; b, *S.* (A.) 6, sp. n.; c, *S.* (A.) 7, sp. n.; d, *S.* (A.) 8, sp. n.



a

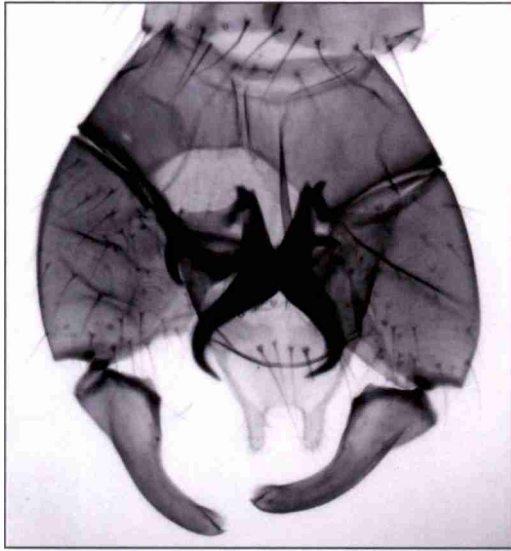


b



c

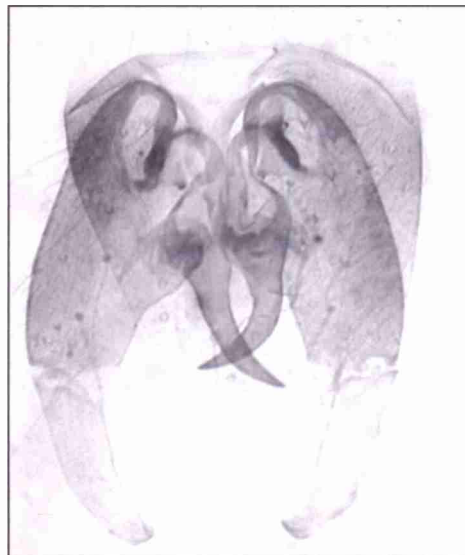
Lámina 47: genitalia masculina: a, *Stilobezzia* (A.) 9, sp. n.; *S.* (A.) 10 sp. n.:
b, vista ventral; c, vista dorsal.



a

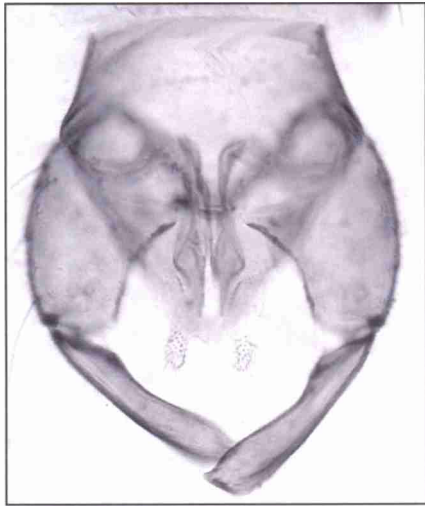


b

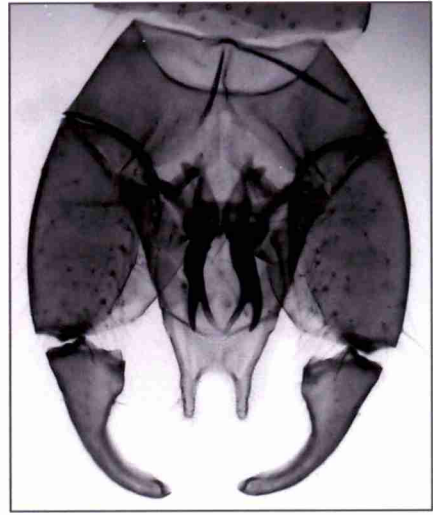


c

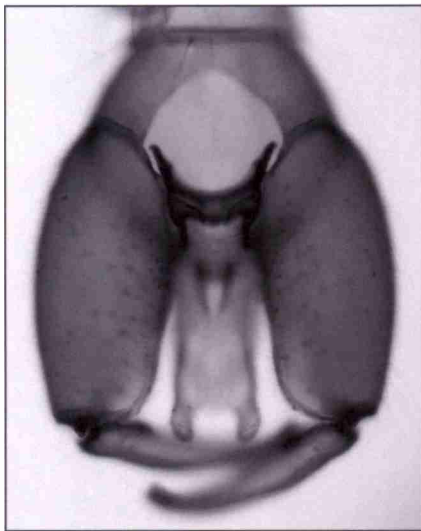
Lámina 48: genitalia masculina: a, *Stilobezzia* (A.) 11, sp. n.; b, *S.* (A.) 12, sp. n.; c, *S.* (A.) 13, sp. n.



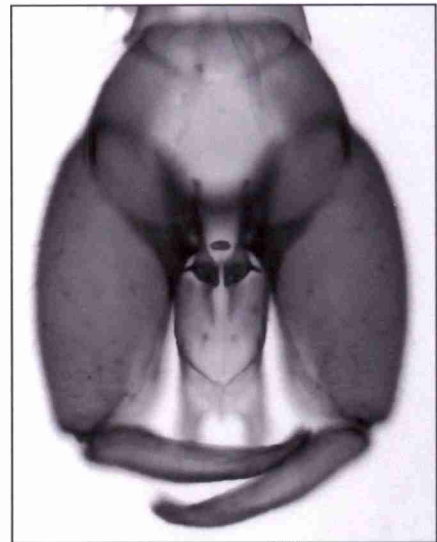
a



b



c



d

Lámina 49: genitalia masculina: a, *Stilobezzia* (A.) 14, sp. n.; b, *S.* (A.) 15, sp. n.; c, *S.* (A.) 16, sp. n.: c, vista ventral; d, vista dorsal.

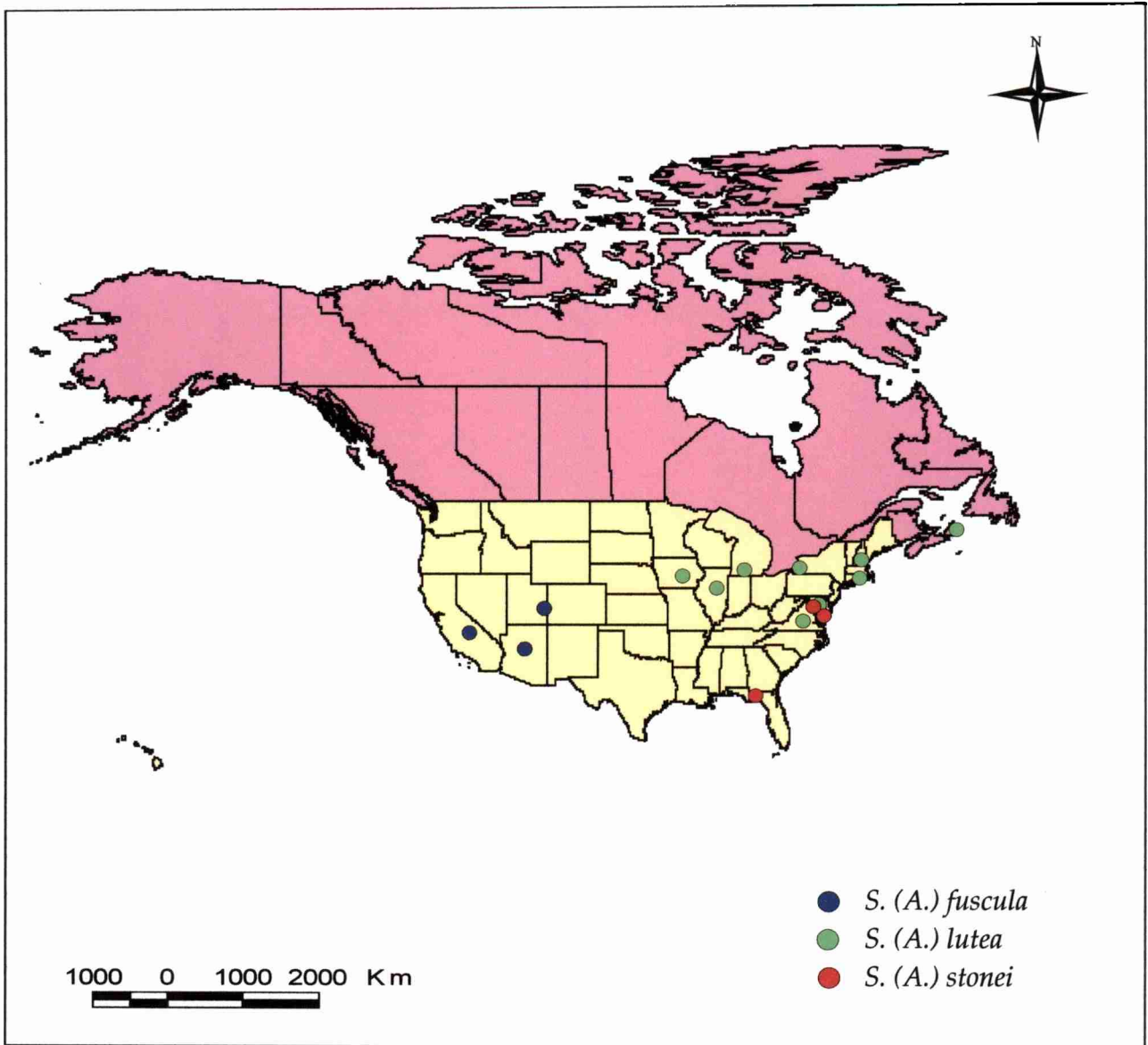


Lámina 50: Mapa de distribución 1



Lámina 51: Mapa de distribución 2

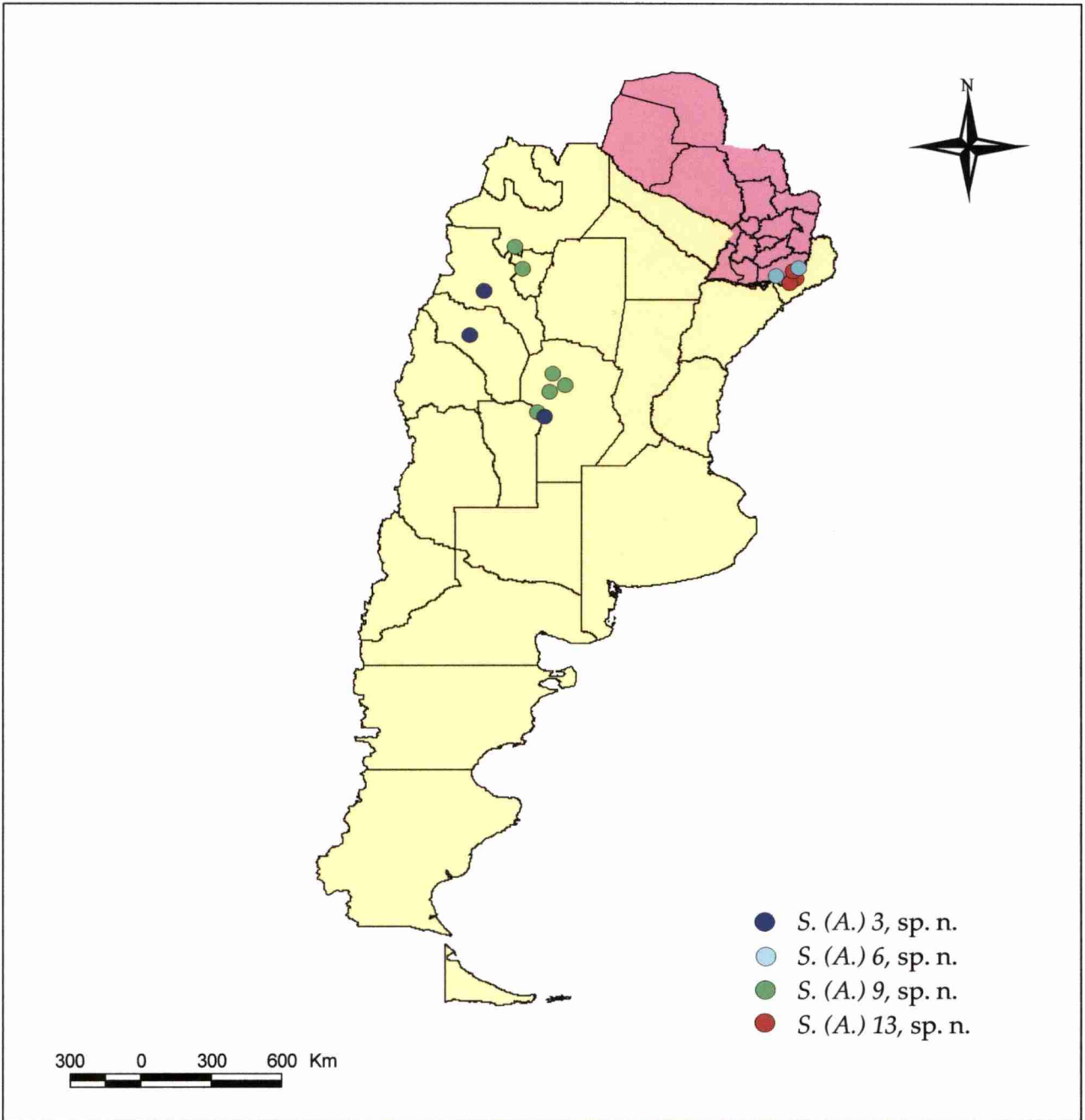


Lámina 52: Mapa de distribución 3

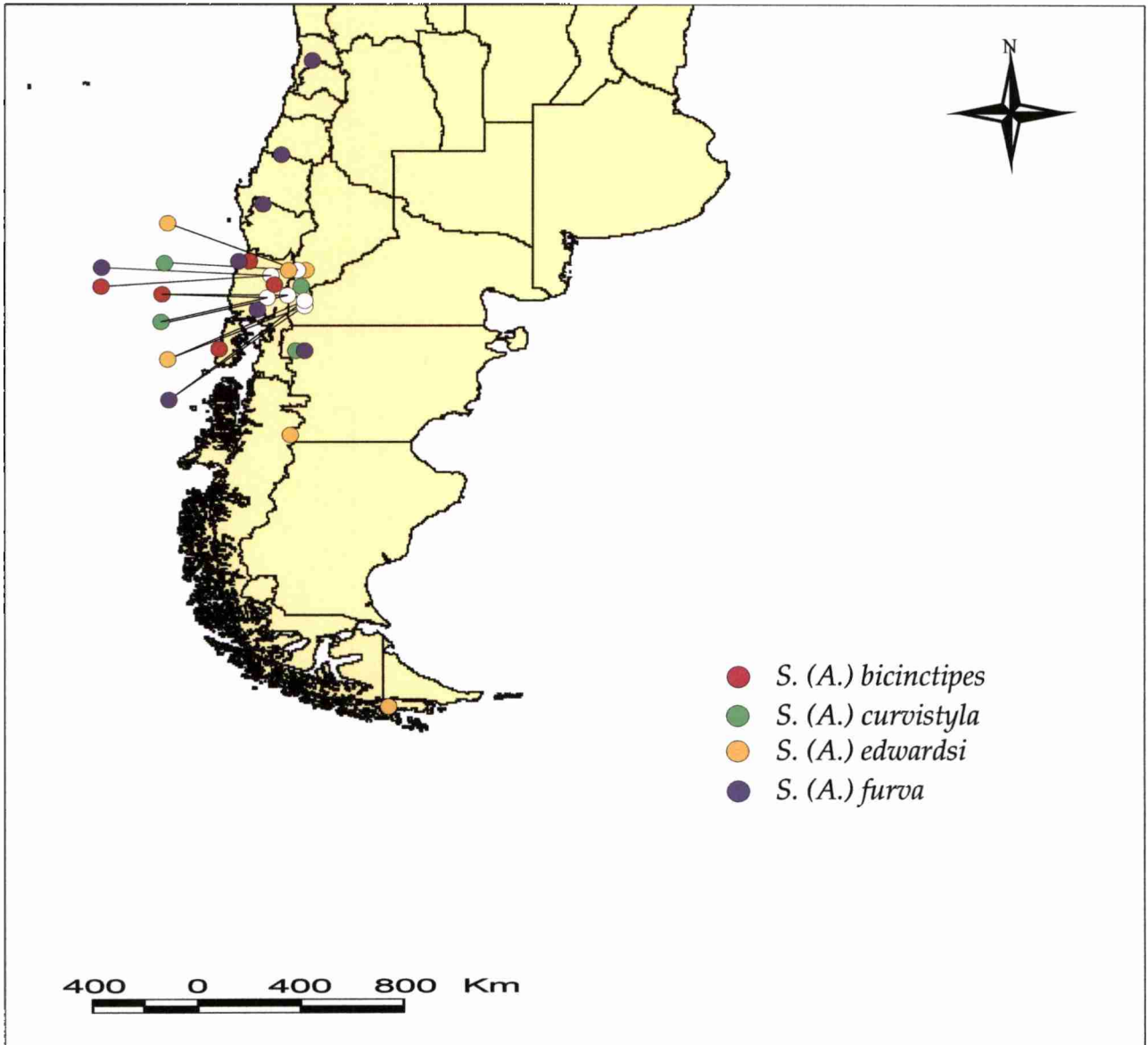


Lámina 53: Mapa de distribución 4

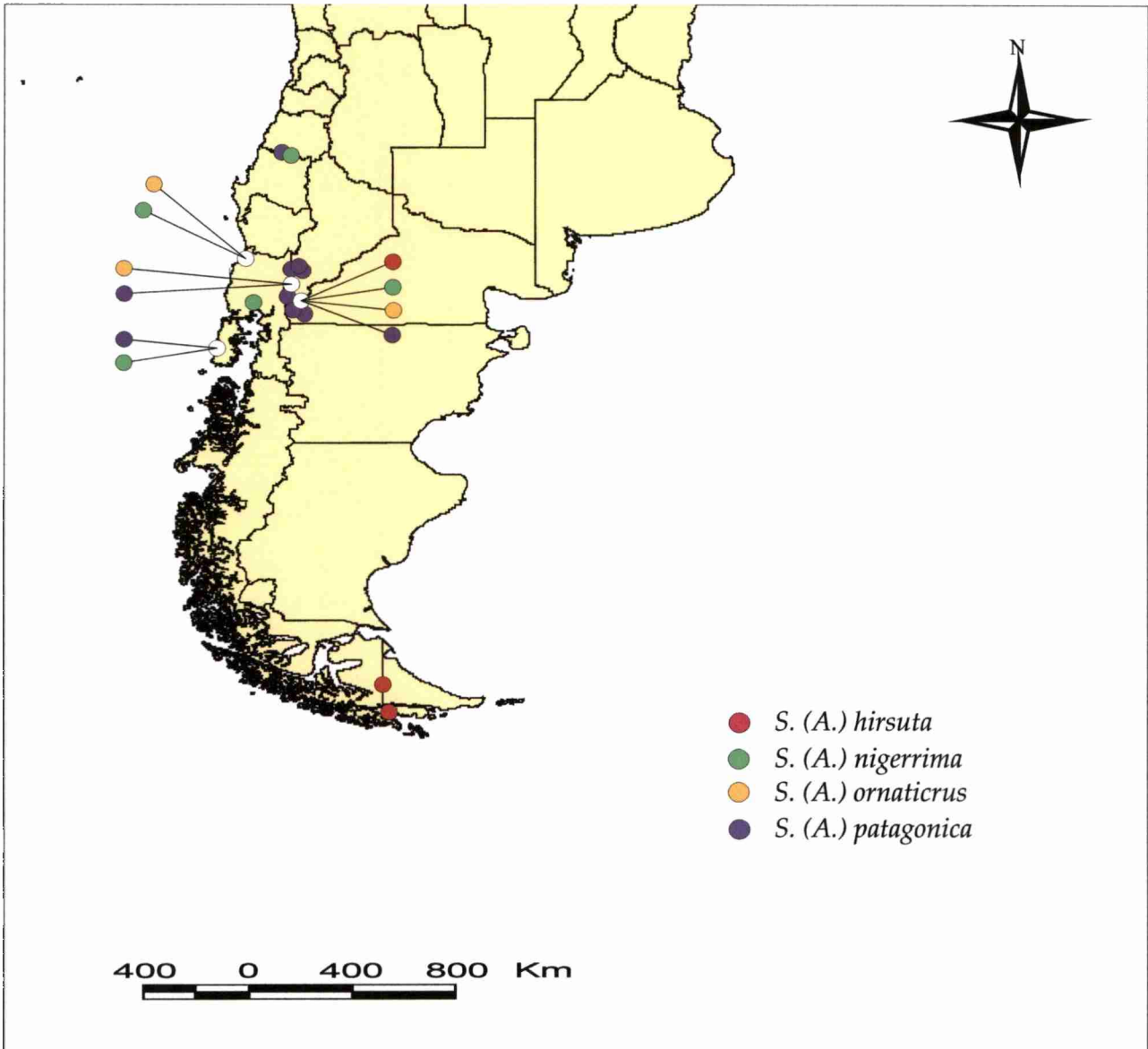


Lámina 54: Mapa de distribución 5

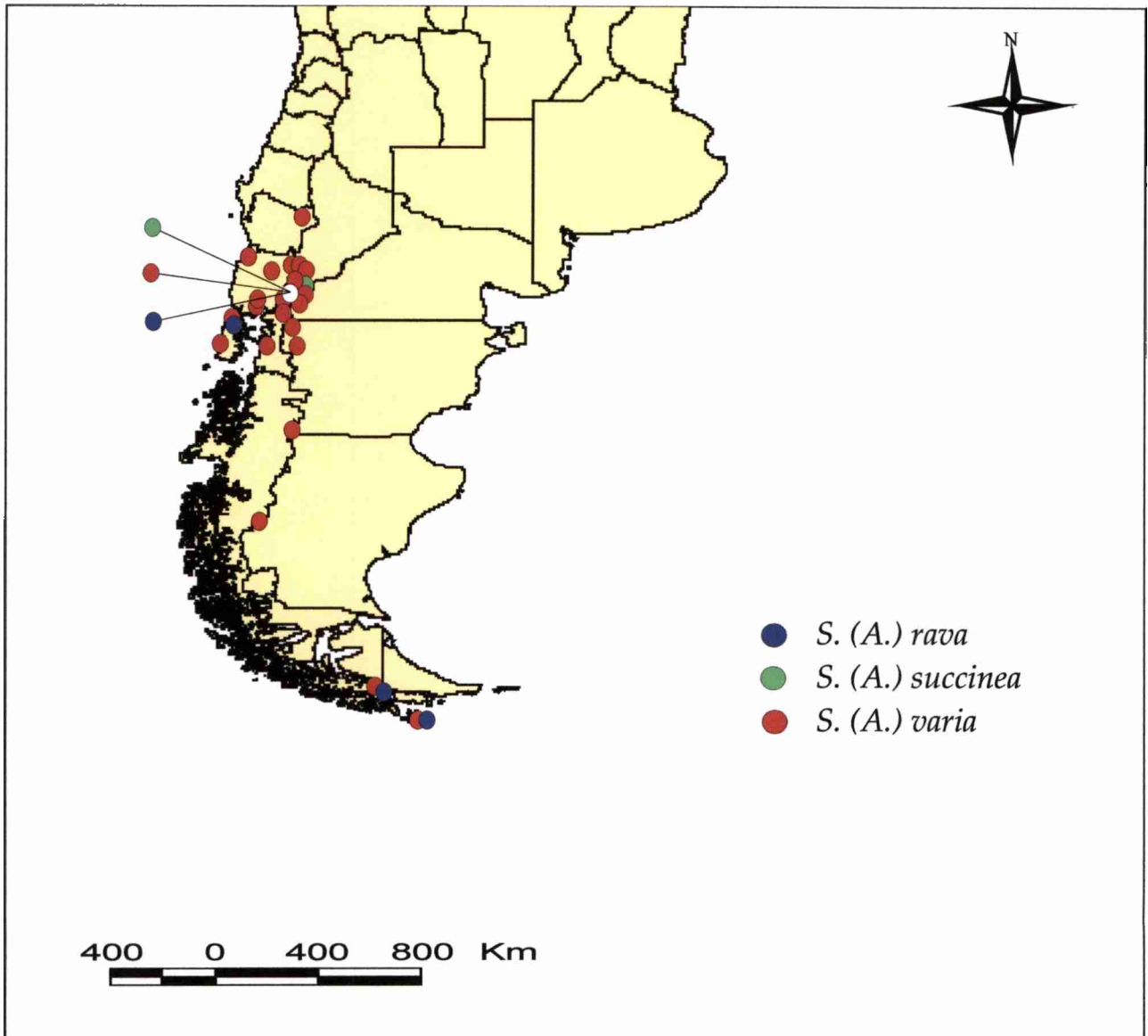


Lámina 55: Mapa de distribución 6

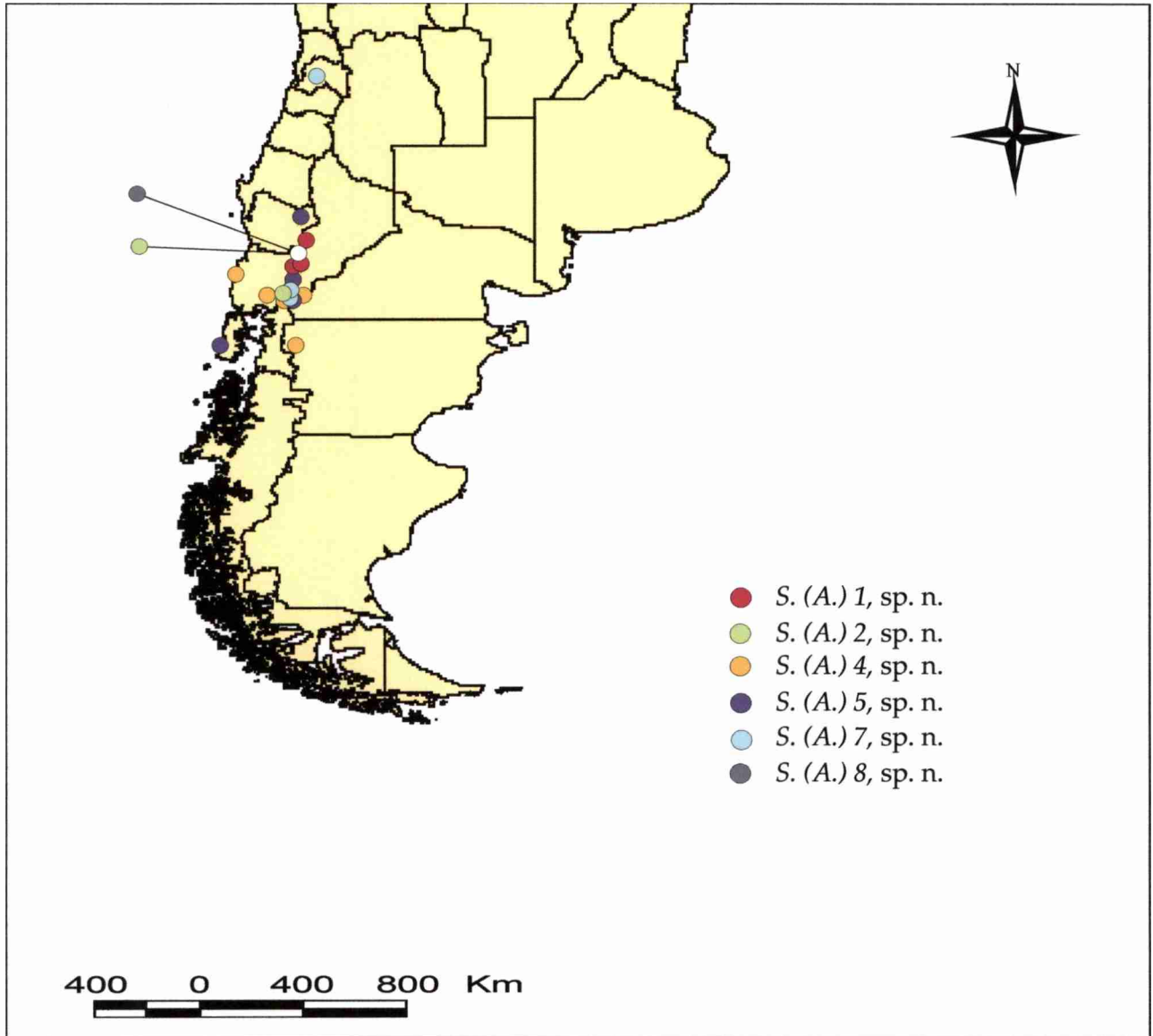


Lámina 56: Mapa de distribución 7

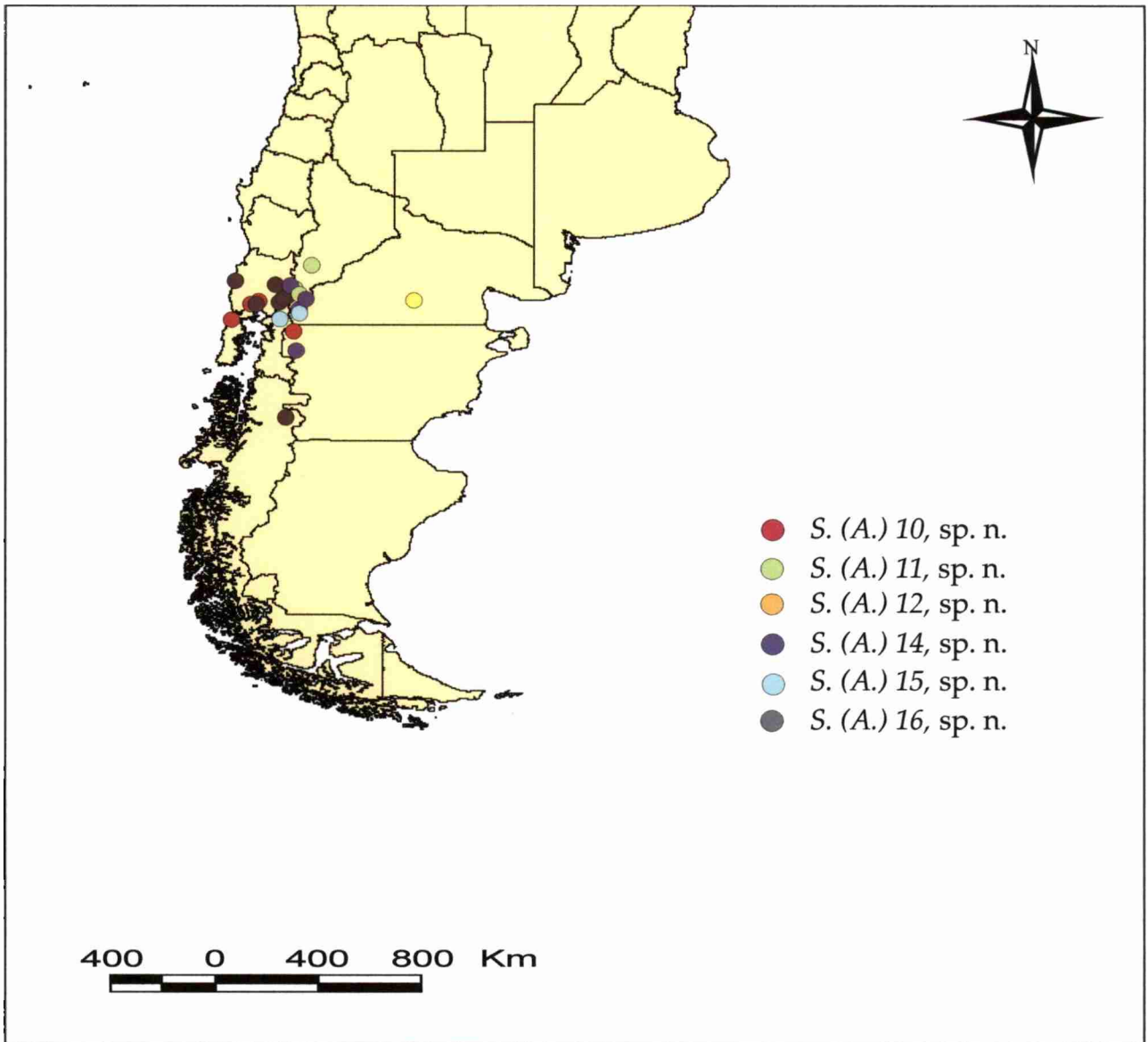


Lámina 57: Mapa de distribución 8

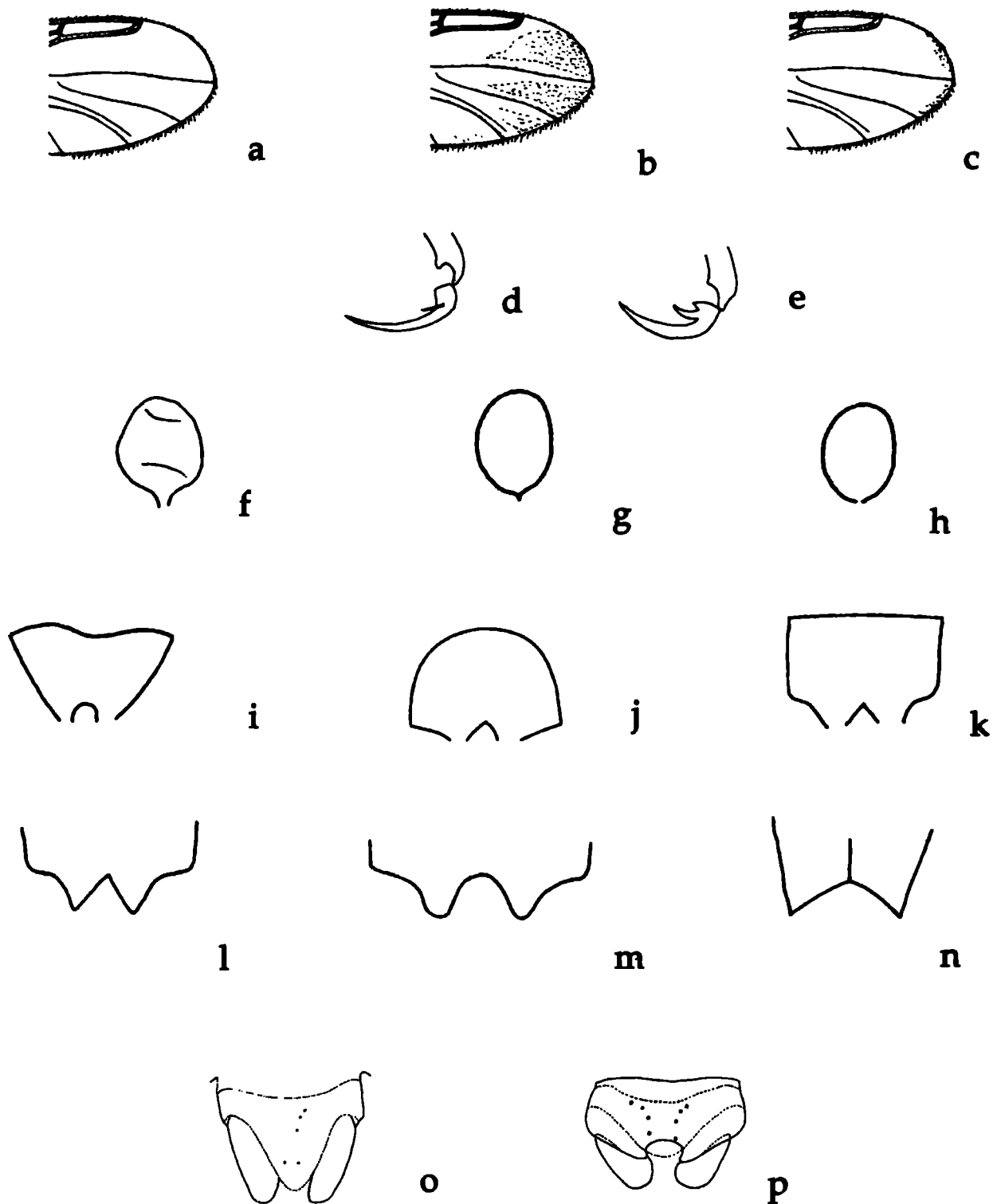


Lámina 58: caracteres utilizados en el análisis cladístico: macrotriquias: a, ausentes; b, abundantes en el tercio distal del ala; c, escasas, sólo en el margen distal del ala; diente basal de las uñas: d, pequeño; e, conspicuo; cuello de las espermatecas: f, ancho; g, delgado; h, ausente; margen anterior del esternito 8: i, excavado; j, convexo; k, recto; margen posterior del esternito 8: l, en forma de V; m, en forma de U; n, en forma de V, con surco medio basal; esternito 10: o, alargado; p, corto.

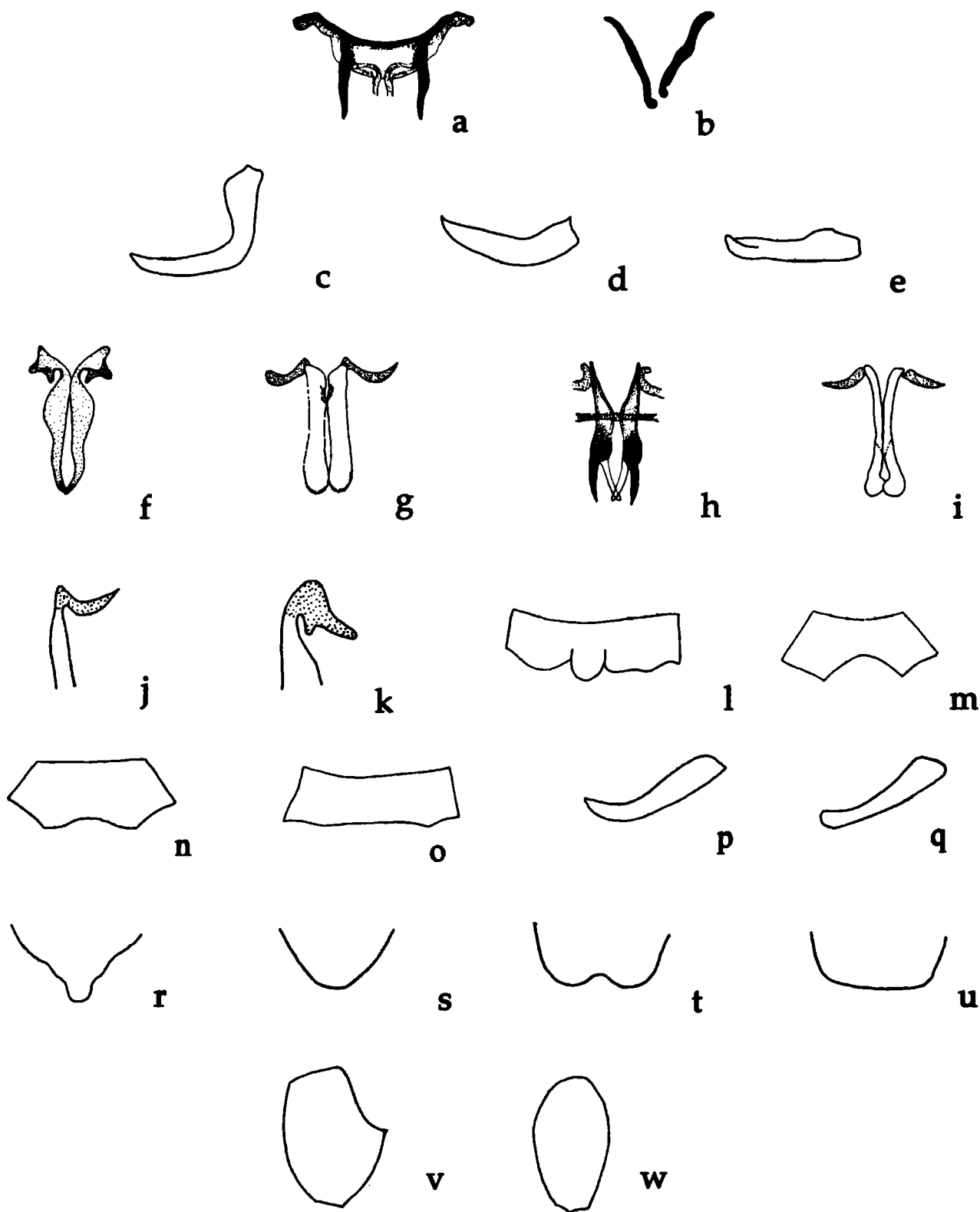


Lámina 59: caracteres utilizados en el análisis cladístico: edeago: a, en forma de H; b, en forma de V; gonostilo: c, abruptamente curvado; d, ligeramente curvado; e, casi recto; ápice del parámero: f, puntiagudo; g, romo; h, con dos proyecciones; i, bulboso; apodema del parámero: j, simple; k, con proyecciones; esternito 9: l, con proyección posteromediana; m, con excavación posteromediana profunda; n, con excavación posteromediana poco profunda; o, sin excavación posteromediana; ápice del gonostilo: p, puntiagudo; q, romo; margen posterior del tergito 9: r, con proyección; s, redondeado; t, bilobulado; u casi recto; gonocoxito: v, con protuberancia interna; w, sin protuberancia interna.

| | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
|---------------------------|-----------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| <i>S.(E.)elegantula</i> | - | 1.43-1.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>S.(S.)fiebrigi</i> | 4.75-6.00 | 1.13-1.40 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| <i>S.(A.)parvitheca</i> | 4.75 | 1.42 | 1 | 1 | 1 | 0 | 0 | ? | 0 | ? | 1 | 2 | 0 | 0 | 0 | ? | 0 | 0 | 0 | 0 | 0 |
| <i>S.(A.)amazonica</i> | 6.00 | ? | 1 | 1 | 0 | 0 | 0 | ? | ? | ? | 1 | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |
| <i>S.(A.)atrichopogon</i> | 2.74-3.13 | 1.24-1.33 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| <i>S.(A.)bicinctipes</i> | 3.75-5.62 | 1.68-2.88 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| <i>S.(A.)curvistyla</i> | 3.44-3.50 | 1.82-1.86 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| <i>S.(A.)edwardsi</i> | 3.00-3.31 | 1.85-2.19 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| <i>S.(A.)furva</i> | 2.90-4.00 | 1.91-2.42 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| <i>S.(A.)fuscula</i> | 2.60 | 1.19 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| <i>S.(A.)guianae</i> | 3.09-5.00 | 0.82-0.89 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>S.(A.)hirsuta</i> | 3.00-3.25 | 2.38-2.80 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 0 | 1 | 0 | 0 | 0 |
| <i>S.(A.)lutea</i> | 3.10 | 2.31 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| <i>S.(A.)maia</i> | ? | 1.60 | 1 | 1 | 0 | 0 | 0 | ? | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| <i>S.(A.)manaosensis</i> | 2.2 | 1.70 | 1 | 1 | 0 | 0 | 0 | ? | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| <i>S.(A.)nigerrima</i> | 2.60-3.20 | 1.20-1.36 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| <i>S.(A.)omaticrus</i> | 3.76-4.30 | 3.02-3.10 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| <i>S.(A.)patagonica</i> | 2.10-3.40 | 1.65-2.24 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| <i>S.(A.)rava</i> | 2.77-4.18 | 2.28-2.92 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| <i>S.(A.)stonei</i> | 2.46 | 1.92 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| <i>S.(A.)succinea</i> | 3.22-5.00 | 1.91-2.66 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| <i>S.(A.)tibialis</i> | 3.00 | 1.24 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | ? | 1 | 0 | 1 |
| <i>S.(A.)varia</i> | 2.64-5.71 | 2.05-2.66 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| <i>S.(A.) 1, sp. n.</i> | 2.89-3.54 | 1.71-1.91 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| <i>S.(A.) 2, sp. n.</i> | 3.87-4.87 | 2.02-2.54 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| <i>S.(A.) 3, sp. n.</i> | 2.33-3.12 | 1.86-2.00 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| <i>S.(A.) 4, sp. n.</i> | 2.12-2.85 | 1.34-1.68 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| <i>S.(A.) 5, sp. n.</i> | 2.70-3.57 | 1.76-1.86 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| <i>S.(A.) 6, sp. n.</i> | 2.83-3.00 | 1.12-1.27 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| <i>S.(A.) 9, sp. n.</i> | 1.96-2.86 | 1.02-1.17 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| <i>S.(A.) 10, sp. n.</i> | 2.90-4.00 | 1.72-1.89 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| <i>S.(A.) 11, sp. n.</i> | 3.75-4.90 | 1.67-1.92 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 0 | 1 |
| <i>S.(A.) 12, sp. n.</i> | 2.65 | 2.05 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| <i>S.(A.) 13, sp. n.</i> | 3.00-4.50 | 1.10-1.24 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| <i>S.(A.) 14, sp. n.</i> | 2.82-3.88 | 2.56-2.68 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| <i>S.(A.) 15, sp. n.</i> | 2.40-2.92 | 1.90-2.42 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| <i>S.(A.) 16, sp. n.</i> | 2.86-3.14 | 1.38-1.77 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |

Tabla I: Matriz de datos utilizada en el análisis cladístico.

| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| <i>S.(E.)elegantula</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>S.(S.)fiebrigi</i> | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| <i>S.(A.)parvitheca</i> | 0 | 1 | ? | ? | ? | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | ? | 0 |
| <i>S.(A.)amazonica</i> | 1 | 1 | ? | ? | ? | ? | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | ? | 0 |
| <i>S.(A.)atrichopogon</i> | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | ? | 0 | 0 | 0 | 0 |
| <i>S.(A.)bicinctipes</i> | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| <i>S.(A.)curvistyla</i> | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |
| <i>S.(A.)edwardsi</i> | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 |
| <i>S.(A.)furva</i> | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 |
| <i>S.(A.)fuscula</i> | 1 | 1 | ? | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 |
| <i>S.(A.)guianae</i> | 1 | 0 | 0 | ? | 0 | 0 | 0 | 1 | 0 | 0 | ? | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| <i>S.(A.)hirsuta</i> | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 3 | 0 | 0 | 1 | 1 | 1 |
| <i>S.(A.)lutea</i> | 1 | 1 | ? | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| <i>S.(A.)maia</i> | 1 | ? | ? | ? | ? | 0 | 1 | 0 | 1 | 0 | ? | 0 | 0 | 0 | 0 | ? | 0 | 3 | 0 | 0 | ? | 0 | 0 |
| <i>S.(A.)manaosensis</i> | 1 | ? | ? | ? | ? | 0 | ? | 1 | 1 | 0 | ? | 0 | 0 | 0 | 1 | 0 | ? | 0 | 3 | 0 | 0 | ? | 0 |
| <i>S.(A.)nigerima</i> | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 1 | 0 |
| <i>S.(A.)ornaticrus</i> | 2 | 2 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | ? | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 0 |
| <i>S.(A.)patagonica</i> | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 |
| <i>S.(A.)rava</i> | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 2 | 3 | 0 | 1 | 1 | 1 |
| <i>S.(A.)stonei</i> | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 |
| <i>S.(A.)succinea</i> | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 2 | 1 | 0 | 1 | 1 | 0 |
| <i>S.(A.)tibialis</i> | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| <i>S.(A.)varia</i> | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 1 | 0 |
| <i>S.(A.) 1, sp. n.</i> | 1 | 0 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 3 | 1 | 0 | 1 | 0 |
| <i>S.(A.) 2, sp. n.</i> | 1 | 1 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 1 |
| <i>S.(A.) 3, sp. n.</i> | 1 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| <i>S.(A.) 4, sp. n.</i> | 2 | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 1 | 0 |
| <i>S.(A.) 5, sp. n.</i> | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| <i>S.(A.) 6, sp. n.</i> | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | ? | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| <i>S.(A.) 9, sp. n.</i> | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 |
| <i>S.(A.) 10, sp. n.</i> | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 |
| <i>S.(A.) 11, sp. n.</i> | 1 | 0 | 2 | 2 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 1 | 0 |
| <i>S.(A.) 12, sp. n.</i> | 1 | 2 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |
| <i>S.(A.) 13, sp. n.</i> | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| <i>S.(A.) 14, sp. n.</i> | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| <i>S.(A.) 15, sp. n.</i> | 1 | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 |
| <i>S.(A.) 16, sp. n.</i> | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 1 | 0 |

Tabla I, continuación.

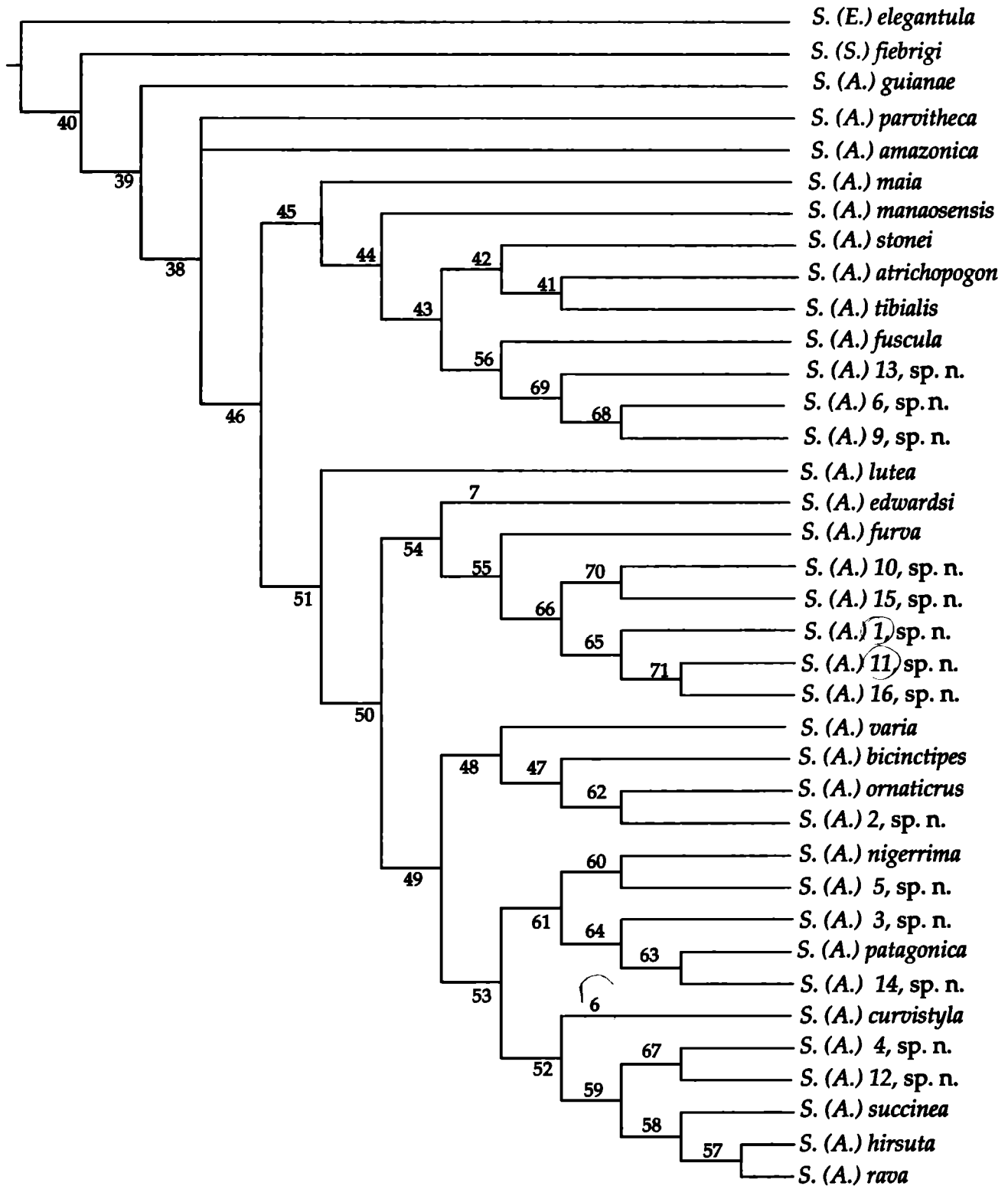


Lámina 60: Cladograma de especies americanas de *Stilobezzia* (*Acanthohelea*). Los números representan los nodos; en rojo, los grupos externos.

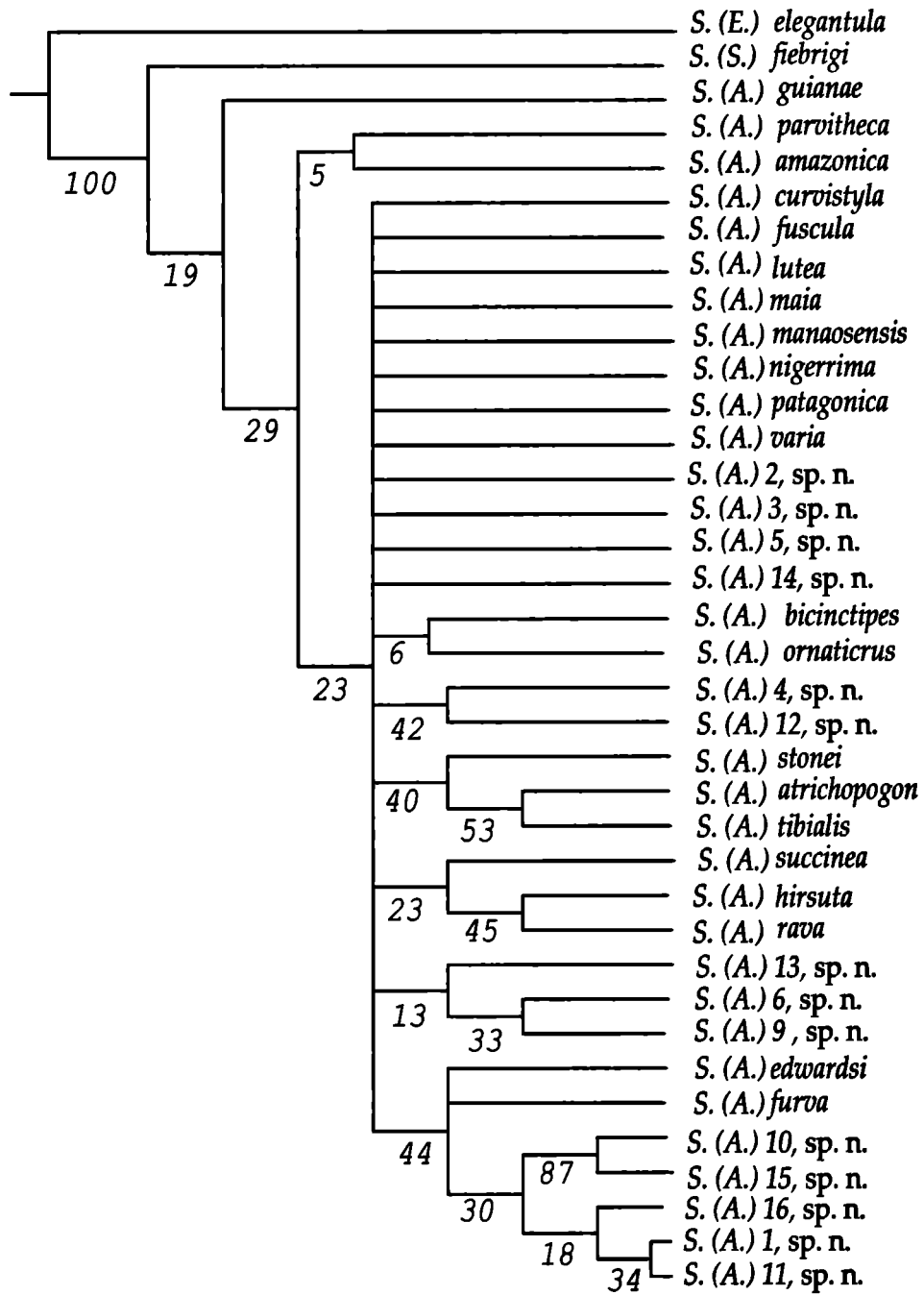


Lámina 61: cladograma con valores de Symmetric Resampling

Nodo 38 :
Carácter 10: 0 → 1
Carácter 21: 0 → 1

Nodo 39 :
Carácter 2: 0 → 1
Carácter 11: 0 → 2
Carácter 28: 0 → 1
Carácter 36: 0 → 1

Nodo 41 :
Carácter 15: 1 → 0
Carácter 21: 1 → 0

Nodo 42 :
Carácter 4: 0 → 1
Carácter 35: 0 → 1

Nodo 43 :
Carácter 2: 1 → 0

Nodo 44 :
Carácter 34: 0 → 1

Nodo 45 :
Carácter 18: 0 → 1

Nodo 46 :
Carácter 0: 4.750 → 3.100-3.140
Carácter 1: 1.420 → 1.600
Carácter 11: 2 → 1

Nodo 47 :
Carácter 17: 0 → 1
Carácter 33: 1 → 0

Nodo 48 :
Carácter 1: 1.910-2.000 → 2.050-2.540
Carácter 13: 1 → 0

Nodo 49 :
Carácter 30: 0 → 1

Nodo 50 :
Carácter 4: 0 → 1
Carácter 8: 0 → 1
Carácter 9: 0 → 1
Carácter 21: 1 → 0

Nodo 51 :
Carácter 1: 1.600 → 1.910-2.000
Carácter 7: 0 → 1
Carácter 24: 0 → 1
Carácter 28: 1 → 0
Carácter 33: 0 → 1
Carácter 41: 0 → 1

Nodo 52 :
Carácter 37: 0 → 1

Nodo 53 :
Carácter 33: 1 → 3

Nodo 54 :
Carácter 25: 0 → 1
Carácter 36: 1 → 0

Nodo 55 :
Carácter 39: 0 → 1

Nodo 56 :
Carácter 1: 1.240-1.600 → 1.190
Carácter 36: 1 → 2

Nodo 57 :
Carácter 6: 0 → 1
Carácter 9: 1 → 2
Carácter 42: 0 → 1

Nodo 58 :
Carácter 21: 0 → 1
Carácter 33: 3 → 1
Carácter 37: 1 → 2
Carácter 40: 0 → 1

Nodo 59 :
Carácter 31: 0 → 1

Nodo 60 :
Carácter 1: 1.910-2.000 → 1.760-1.860
Carácter 26: 1 → 0

Nodo 61 :
Carácter 7: 1 → 0
Carácter 18: 0 → 1
Carácter 22: 0 → 2

Nodo 62 :
Carácter 22: 0 → 2

Nodo 63 :
Carácter 9: 1 → 0
Carácter 41: 1 → 0

Nodo 64 :
Carácter 2: 1 → 0
Carácter 28: 0 → 1

Nodo 65 :
Carácter 18: 0 → 1
Carácter 36: 0 → 1

Nodo 66 :
Carácter 1: 1.910-2.000 → 1.890-1.900
Carácter 29: 0 → 1

Nodo 67 :
Carácter 0: 3.120-3.220 → 2.650-2.850
Carácter 22: 0 → 2

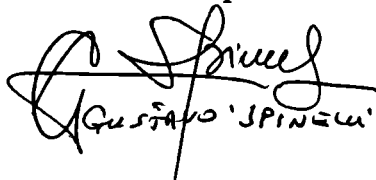
Nodo 68 :
Carácter 8: 0 → 1
Carácter 21: 1 → 0
Carácter 22: 0 → 2

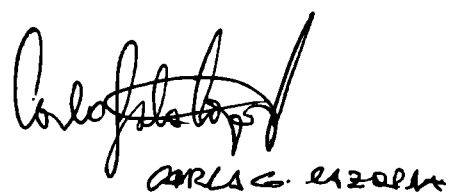
Nodo 69 :
Carácter 18: 1 → 0
Carácter 20: 1 → 0

Nodo 70 :
Carácter 7: 1 → 0
Carácter 8: 1 → 0

Nodo 71 :
Carácter 24: 1 → 0
Carácter 39: 1 → 0

Tabla 2: Nodos con sinapomorfias.


GUSTAVO SPINELLI


CARLOS EIZOLA